



Handbuch | WERMA - Konfigurationssoftware
Manual | WERMA - Configuration Software
手册 | WERMA - 配置软件

Version: 3.1 - 03/2026

310.657.006

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Handbuch

WERMA - Konfigurationssoftware

Version: 3.1 - 03/2026

310.657.006

Impressum

Jegliche Erwähnung von Firmennamen dient ausschließlich zu Instruktionszwecken. Eine Bezugnahme auf tatsächlich existierende Organisationen ist, bis auf die unten stehenden Ausnahmen, nicht beabsichtigt. Folgende Firmen und Marken werden in der Hilfe genannt:

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1 Überblick

1.1 Funktion

Mit der WERMA - Konfigurationssoftware können folgenden WERMA-Geräte konfiguriert werden:

- eSIGN Signalsäule
- MC55 Touch Smart
- MC55 High Smart
- MC55 Smart



Die zur Verfügung stehenden Geräte sind marktabhängig.

1.2 Systemanforderungen

Betriebssystem	Windows 10 x86/x64 Windows 11 Aktuelle Windows-Updates werden vorausgesetzt.
USB-Anschluss	Notwendig für die Hardware-Konfiguration.



Unterstützte Betriebssysteme werden nur solange unterstützt, wie auch Microsoft diese über den Microsoft-Support Lifecycle unterstützt.

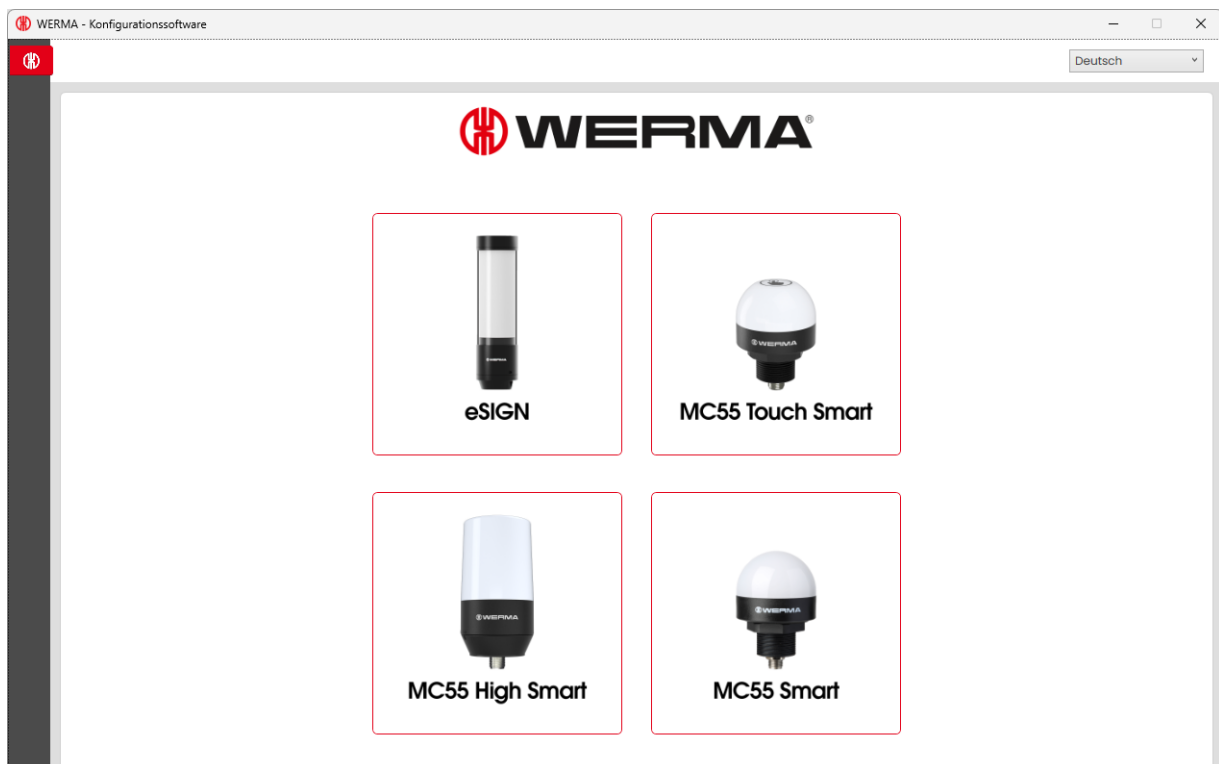
2 WERMA - Konfigurationssoftware installieren

Die WERMA - Konfigurationssoftware muss nicht installiert werden und ist als Portable lauffähig.

1. WERMA - Konfigurationssoftware von folgender Webseite herunterladen:
www.werma.com/software.

3 WERMA - Konfigurationssoftware starten

1. Auf `Werma-Konfigurator.exe` doppelklicken.
→ Die WERMA - Konfigurationssoftware startet.



2. Gewünschtes Gerät wählen.

4 eSIGN konfigurieren

4.1 Funktion

Mit der neuen eSIGN bringen wir Licht in neue Dimensionen. Dank elektrischer Modularität lassen sich verschiedene Signalisierungsmodi mit mehreren Farben, Helligkeitsstufen und Leuchtbildern realisieren: Von der klassischen Ampel bis hin zu komplett kundenspezifischen Einstellungen. Auch variable Füllstandanzeigen oder vollflächige Signalisierungen sind mit eSIGN problemlos realisierbar. Das bringt nicht nur Übersicht in Ihre Prozessabläufe, sondern eröffnet ganz neue Möglichkeiten.

Mit Hilfe der WERMA - Konfigurationssoftware können die einzelnen Segmente einer WERMA eSIGN konfiguriert und die Konfiguration auf die eSIGN übertragen werden.

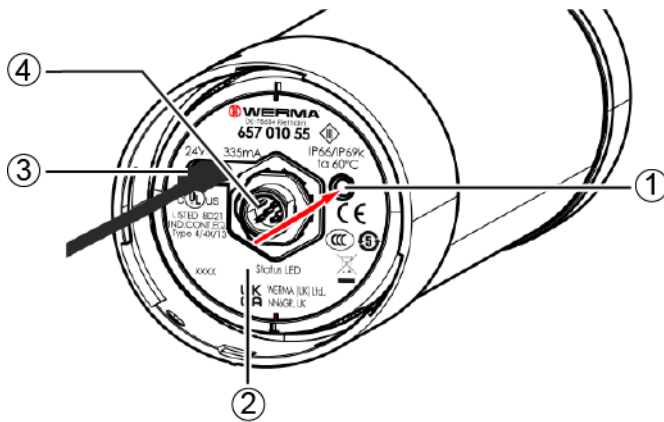
Die Konfiguration kann mit oder ohne angeschlossener eSIGN durchgeführt werden. Falls keine eSIGN angeschlossen wird, kann die Konfiguration in einer Konfigurationsdatei gespeichert und zu einem späteren Zeitpunkt geladen und auf eine angeschlossene eSIGN übertragen werden.

4.2 Hardware-Beschreibung

Die Informationen zur Hardware gelten für folgende Artikelnummern:

- 657.0x0.55 & 657.2x0.55 - 9 Segmente
- 657.1x0.55 & 657.3x0.55 - 9 Segmente mit Sirene
- 657.5x0.55 & 657.7x0.55 - 15 Segmente
- 657.6x0.55 & 657.8x0.55 - 15 Segmente mit Sirene
- 657.420.55 & 657.920.55 - 6 Segmente
- 657.430.55 & 657.930.55 - 6 Segmente mit Sirene

4.2.1 Übersicht Anschlussbereich



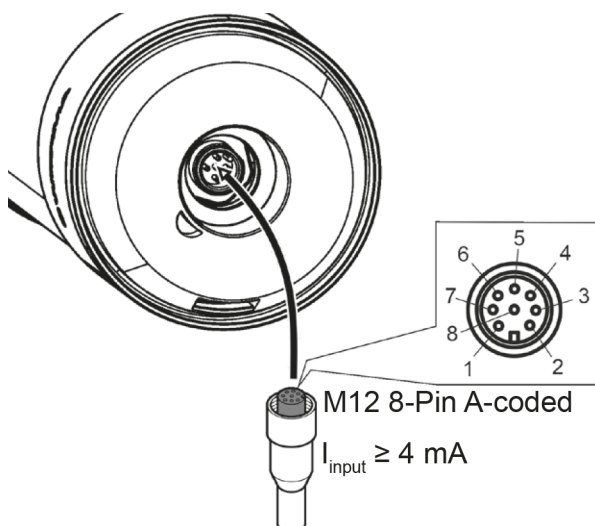
Pos.	Beschreibung
1	User-Button
2	Status-LED
3	USB-C-Anschluss
4	M12-Stecker 8-polig

LED-Status	Beschreibung
LED blinkt gelb	Normaler Betrieb
LED pulsiert	Firmware-Update wird aufgespielt
LED ist aus	USB-C-Kabel nicht richtig verbunden

i Der User-Button ist in der aktuellen eSIGN-Version ohne Funktion und wird für zukünftige Funktionserweiterungen bereitgehalten.

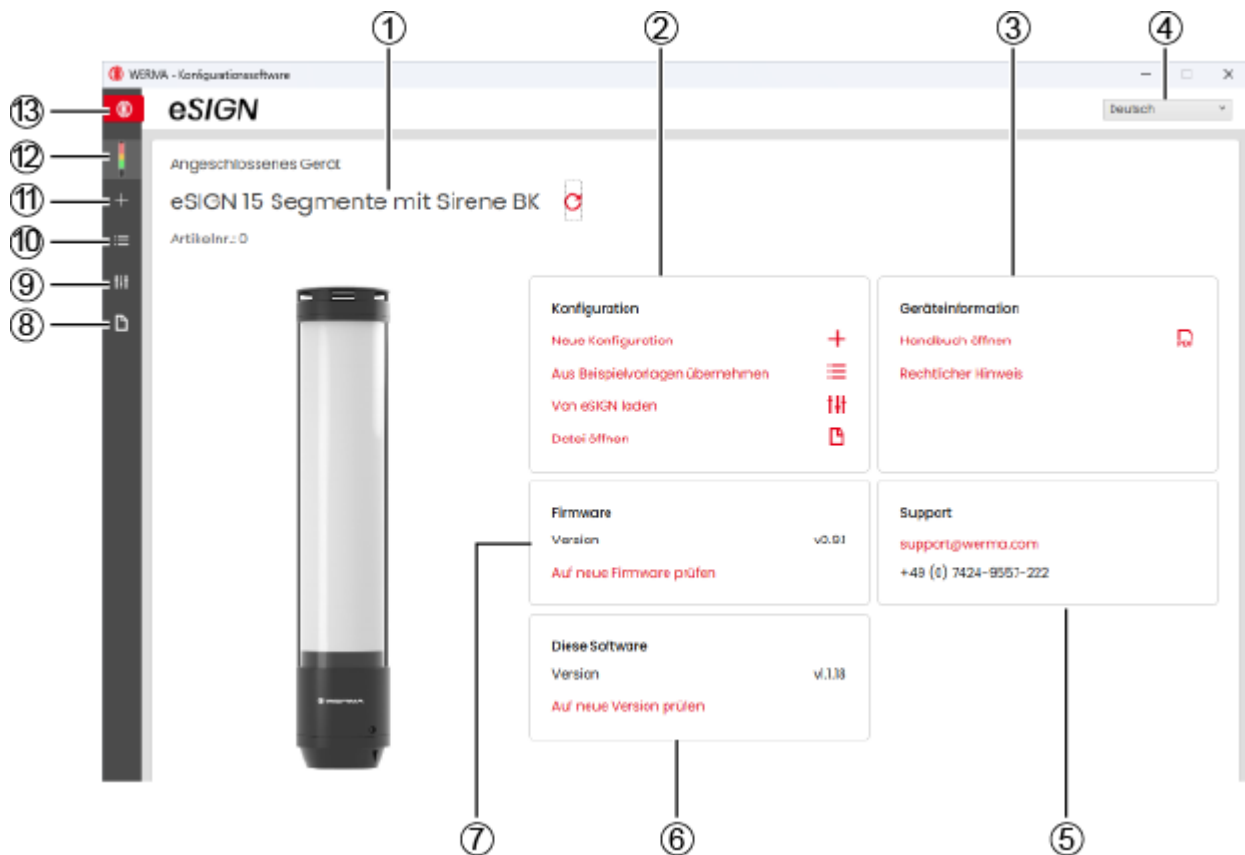
4.2.2 Übersicht M12-Stecker 8-polig

Der Anschluss der eSIGN erfolgt über einen 8-poligen M12-Stecker mit folgender Belegung:



M12 Pinbelegung	Litzenfarbe M12- Kabel	Funktion
1	weiß	Signal 1
2	braun	Signal 2
3	grün	Signal 3
4	gelb	Signal 4
5	grau	Signal 5
6	rosa	Signal 6
7	blau	COM
8	rot	+24V

4.3 Überblick



Pos.	Beschreibung
1	Variante der angeschlossenen eSIGN
2	Bereich Konfiguration
3	Bereich Geräteinformation
4	Sprache einstellen
5	Bereich Support
6	Bereich Diese Software
7	Bereich Firmware
8	Konfiguration aus Datei öffnen
9	Konfiguration von der eSIGN laden
10	Konfiguration aus Beispieldateien übernehmen
11	Neue Konfiguration erstellen
12	Startbildschirm aufrufen
13	Geräteauswahl eSIGN, MC55 Touch Smart, MC55 High Smart, MC55 Smart

4.3.1 Bereich Konfiguration

Im Bereich **Konfiguration** gibt es folgende Möglichkeiten, eine Konfiguration vorzunehmen:

- **Neue Konfiguration:** Eine neue Konfiguration erstellen (siehe "Neue Konfiguration erstellen", S. 17).
- **Aus Beispielvorlagen übernehmen:** Standard-Vorlagen öffnen, die sofort auf das Gerät überspielt werden können (siehe "Konfiguration aus Beispielvorlagen übernehmen", S. 63).
- **Von eSIGN laden:** Aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung öffnen (siehe "Konfiguration von der angeschlossenen eSIGN laden", S. 64).
- **Datei öffnen:** Eine bestehende Konfiguration öffnen und wiederverwenden (siehe "Konfiguration aus Datei öffnen", S. 65).

4.3.2 Bereich Geräteinformation

Im Bereich **Geräteinformation** können das Handbuch und rechtliche Hinweise aufgerufen werden.

4.3.3 Bereich Support

Im Bereich **Support** werden die Kontaktinformationen des WERMA-Supports angezeigt.

4.3.4 Bereich Diese Software

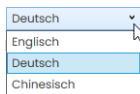
Im Bereich **Diese Software** wird der Versionsstand der WERMA - Konfigurationssoftware angezeigt und eine Möglichkeit zur Aktualisierung der Konfigurationssoftware angeboten.

4.3.5 Bereich Firmware

Im Bereich **Firmware** werden Informationen zur Firmware der angeschlossenen eSIGN angezeigt und eine Möglichkeit zur Aktualisierung der Firmware angeboten.

4.4 Sprache einstellen

1. Im Auswahlménü die gewünschte Sprache wählen.



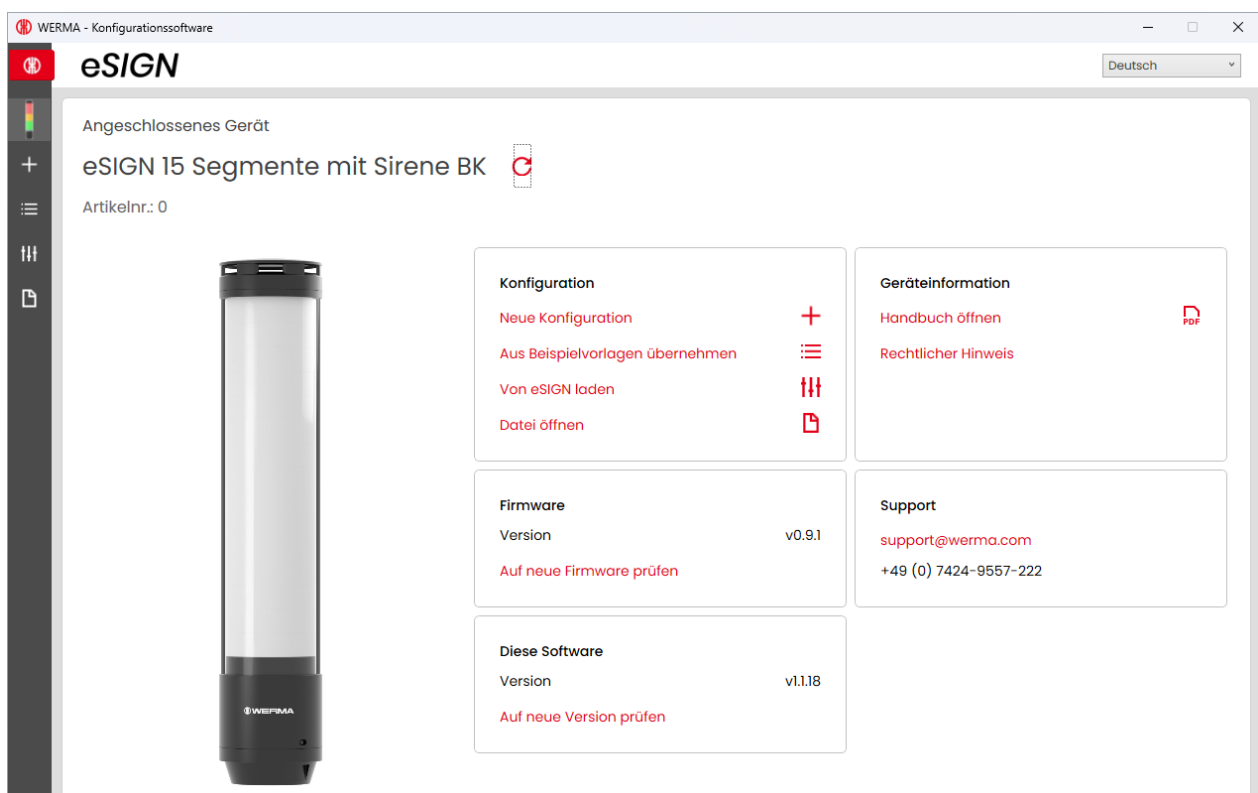
4.5 Neue Konfiguration erstellen

 Die Konfiguration kann mit oder ohne angeschlossener eSIGN durchgeführt werden.

 Die eSIGN kann gleichzeitig per USB-Kabel mit einem Computer und mit der 24-V-Stromversorgung über das M12-Kabel verbunden werden.

1. eSIGN per USB-Kabel an Computer anschließen.

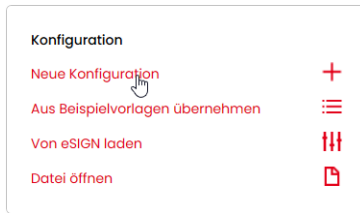
→ Die WERMA - Konfigurationssoftware erkennt die angeschlossene eSIGN.



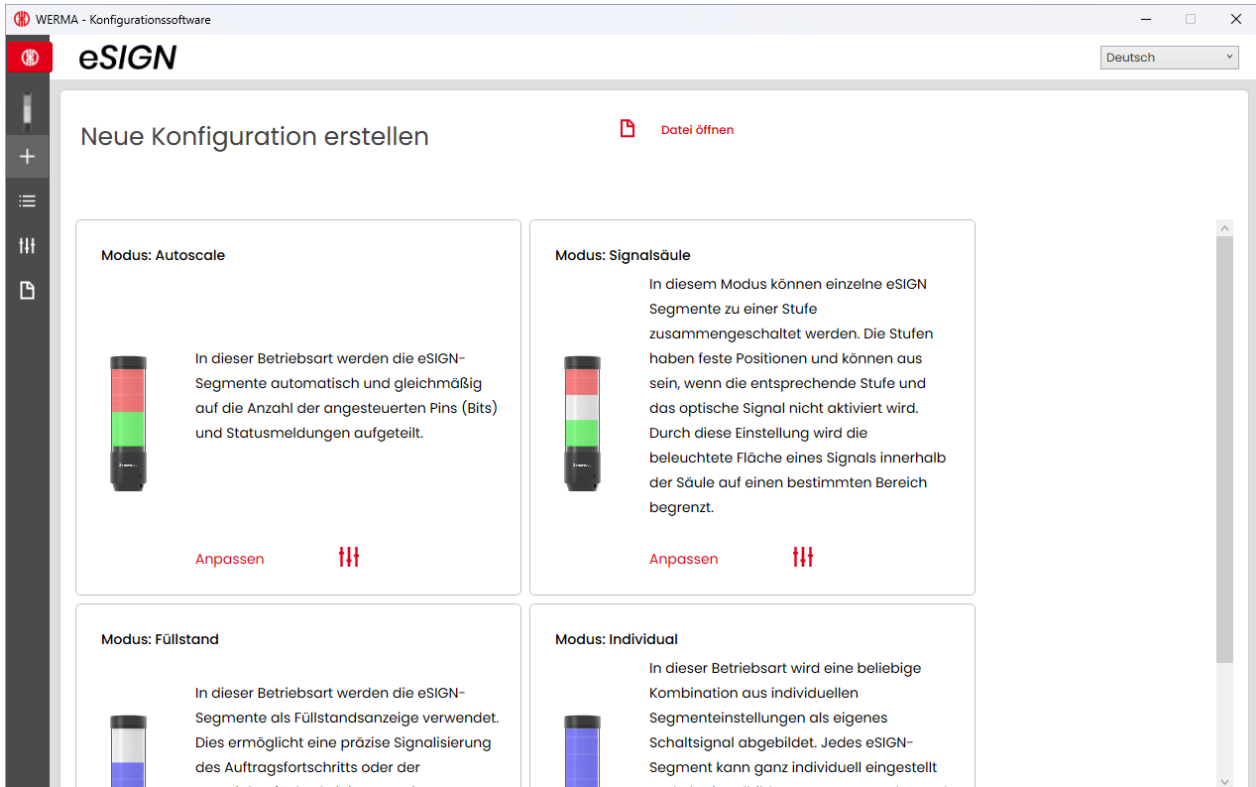
2. Falls die WERMA - Konfigurationssoftware die angeschlossene eSIGN nicht erkennt: Auf **Ange-
schlossenes Gerät aktualisieren** klicken.

kein Gerät verbunden 

3. Im Bereich **Konfiguration** auf **Neue Konfiguration** klicken.



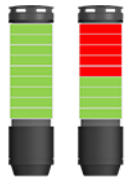
→ Der Bildschirm **Neue Konfiguration erstellen** erscheint.



4. Je nach gewünschtem Konfigurationsmodus im Bereich **Modus: Autoscale**, **Modus: Signalsäule**, **Modus: Füllstand** oder **Modus: Individual** auf **Anpassen** klicken.



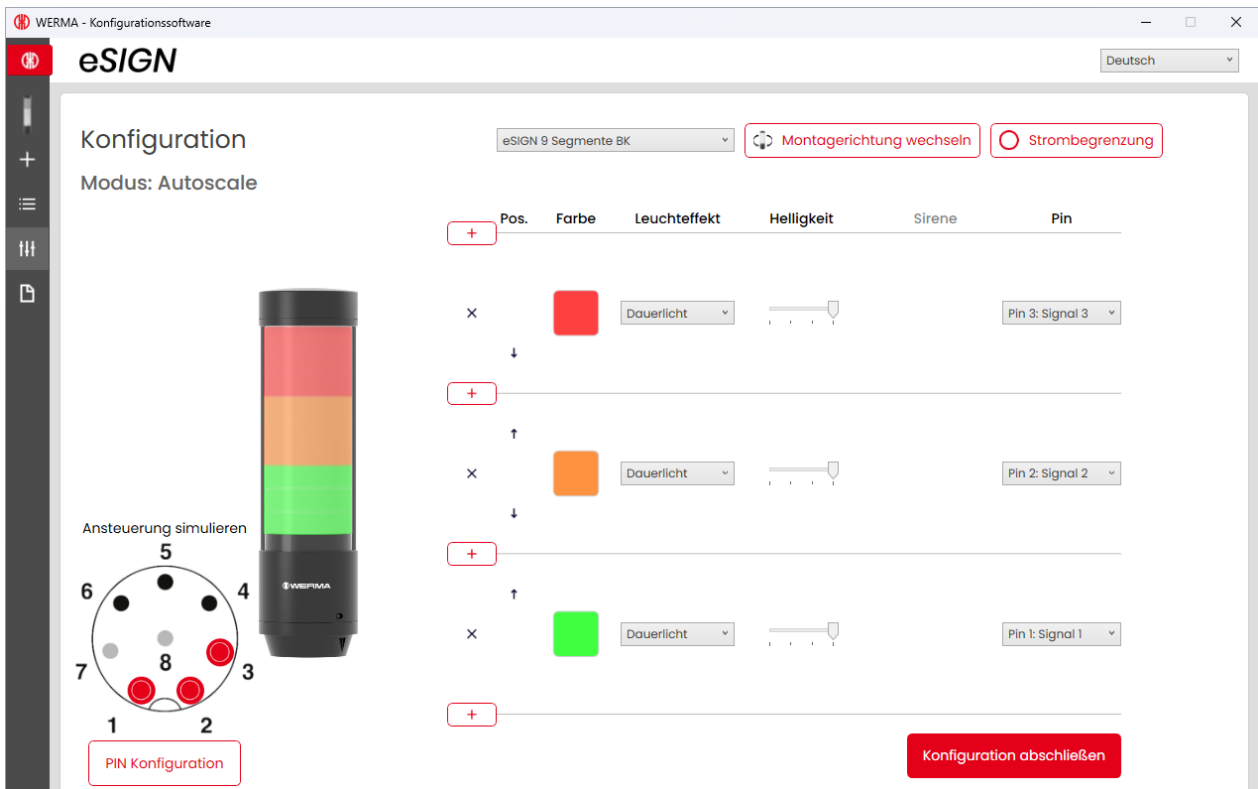
4.5.1 Modus Autoscale



Die eSIGN-Segmente werden automatisch und gleichmäßig auf die Anzahl der angesteuerten Pins (Bits) und Statusmeldungen aufgeteilt.

Mit dieser Einstellung kann das volle Potenzial der eSIGN durch eine vollflächige Signalisierung ausgeschöpft werden. Ist z. B. nur eine Statusmeldung aktiv, wird die gesamte Fläche der eSIGN einfarbig beleuchtet, um eine maximale Sichtbarkeit zu gewährleisten.

Bei Anliegen von mehreren Signalen wird die beleuchtete Fläche anteilig aufgetrennt. Können die Segmente nicht gleichmäßig aufgeteilt werden, erhält die Farbe mit der höchsten Priorität (höchste Stelle innerhalb der Säule) das letzte Segment. Falls mehrere Segmente übrig sind, werden diese der Priorisierung nach (die Positionierung in der Säule von oben nach unten) gleichmäßig verteilt.



WERMA - Konfigurationssoftware

eSIGN

Deutsch

Konfiguration

Modus: Autoscale

eSIGN 9 Segmente BK

Montagerichtung wechseln

Strombegrenzung

Pos.	Farbe	Leuchteffekt	Helligkeit	Sirene	Pin
+					
x	Rot	Dauerlicht			Pin 3: Signal 3
↓					
+					
↑					
x	Orange	Dauerlicht			Pin 2: Signal 2
↓					
+					
↑					
x	Grün	Dauerlicht			Pin 1: Signal 1
↓					
+					

Ansteuerung simulieren

PIN Konfiguration

Konfiguration abschließen



Bei Bedarf kann die Ausrichtung der dargestellten Signalsäule über die Schaltfläche **Mon-
tagerichtung wechseln** um 180° gedreht werden.



Bei Bedarf (z. B. um die Strombegrenzungen von Steuerungsausgängen berücksichtigen zu können) kann über die Schaltfläche **Strombegrenzung** die Leistungsaufnahme der eSIGN verringert werden. In diesem Fall wird der Strombedarf der Säule auf unter 500 mA reduziert. Als Folge wird die Helligkeit der optischen Signale bzw. die Lautstärke der akustischen Signale verringert.

Der Modus **Autoscale** ist die Standard-Betriebsart bei Auslieferung und wie folgt eingestellt:

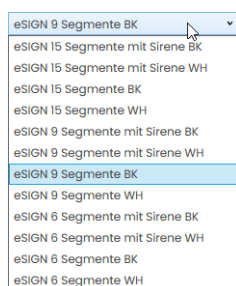
- Varianten mit 6 oder 9 Segmenten:
 - 3 Stufen rot/gelb/grün
 - Dauerlicht
- Varianten mit 15 Segmenten:
 - 5 Stufen rot/gelb/grün/weiß/blau
 - Dauerlicht

Bei kundenindividuellen Versionen weicht der Auslieferungszustand von diesem Standard ab und ist gesondert dokumentiert.

4.5.1.1 eSIGN-Variante wählen

Falls eine eSIGN angeschlossen wurde, ist die Variante entsprechend vorausgewählt. Falls keine eSIGN angeschlossen wurde, kann die Variante der zu konfigurierenden eSIGN gewählt werden.

1. Bei Bedarf die Variante der zu konfigurierenden eSIGN wählen.



4.5.1.2 Stufe hinzufügen oder entfernen

Sobald im Modus **Autoscale** eine Stufe hinzugefügt oder entfernt wird, werden die einzelnen eSIGN-Segmente automatisch neu aufgeteilt und gleichmäßig auf alle Stufen verteilt. Falls die Segmente nicht gleichmäßig aufgeteilt werden können, erhält die Farbe mit der höchsten Priorität (höchste Stelle innerhalb der Säule) das letzte Segment. Falls mehrere Segmente übrig sind, werden diese der Priorisierung nach (die Positionierung in der Säule von oben nach unten) gleichmäßig verteilt.

Stufe hinzufügen

1. Auf **Hinzufügen** klicken.



×

→ Eine Stufe wurde hinzugefügt.

Stufe entfernen

1. Auf **Entfernen** klicken.



→ Eine Stufe wurde entfernt.

4.5.1.3 Stufe verschieben

Bei Bedarf können die einzelnen Stufen nach oben oder unten verschoben werden.

1. In der Spalte **Pos.** auf den Pfeil nach oben oder auf den Pfeil nach unten klicken, um die Stufe nach oben bzw. nach unten zu verschieben.



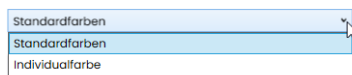
4.5.1.4 Farbe wählen

Jeder Stufe kann eine vorgegebene Standardfarbe oder eine individuelle Farbe zugewiesen werden.

1. In der Spalte **Farbe** auf das Farbfeld klicken.



2. Wählen, ob eine Standardfarbe oder eine individuelle Farbe verwendet werden soll.



Standardfarbe

1. Auf das gewünschte Farbfeld klicken.

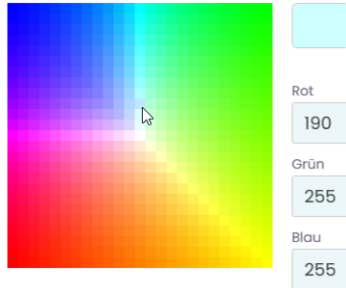


Folgende 8 Standardfarben stehen zur Verfügung:

- rot
- gelb
- grün
- weiß
- blau
- hellgelb
- magenta
- türkis

Individualfarbe

1. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.

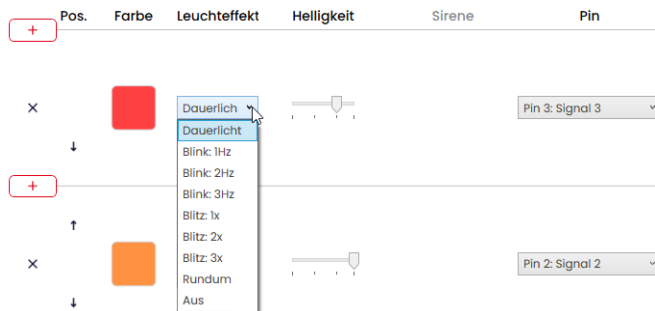


2. Auf **Farbe auswählen** klicken.



4.5.1.5 Leuchteffekt wählen

1. In der Spalte **Leuchteffekt** den gewünschten Leuchteffekt wählen.



Folgende 8 Leuchteffekte stehen zur Verfügung:

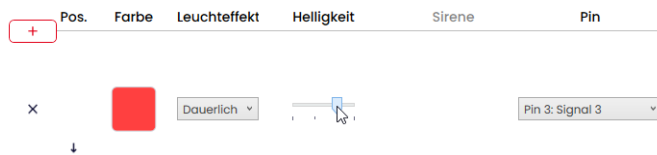
- Dauerlicht
- Blink 1Hz
- Blink 2Hz
- Blink 3Hz
- Blitz 1x
- Blitz 2x
- Blitz 3x
- Rundum
- Aus



Die Einstellung **Aus** kann gewählt werden, falls die Stufe nur mit Sirene belegt werden soll.

4.5.1.6 Helligkeit einstellen

1. In der Spalte **Helligkeit** aus den 4 Optionen die gewünschte Helligkeit der Stufe einstellen.



4.5.1.7 Sirene wählen

Falls die angeschlossene oder gewählte eSIGN eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung der Stufe ertönt.

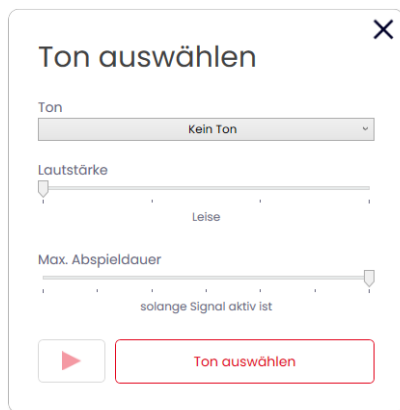


Falls Signaltöne für mehrere Stufen hinterlegt und die Stufen gleichzeitig angesteuert werden, ertönt die Sirene für die Farbe mit der höchsten Priorität (höchste Stelle innerhalb der Säule).

1. In der Spalte **Sirene** auf **Kein Ton** klicken.

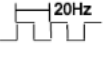
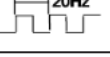
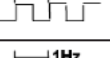
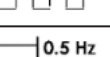
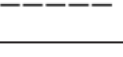


→ Das Fenster **Ton auswählen** erscheint.



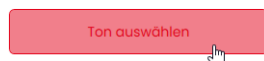
2. Den gewünschten **Ton**, die gewünschte **Lautstärke** und **Max. Abspieldauer** wählen.

Folgende 10 Tonarten stehen zur Verfügung:

Ton	Frequenz	Beschreibung	Max. dB (A)
1	 2.7 kHz	Dauerton	104
2	 0.9 kHz	Dauerton	96
3	 2.1 kHz	Pulston	97
4	 0.9 kHz	Pulston	93
5	 2.6 kHz	Pulston	103
6	 0.9 kHz	Pulston	96
7	 2.7 kHz	Pulston	104
8	 2.3 kHz – 3.6 kHz	Wobbelton	104
9	 2.6 kHz	Dauerton	105
10	 1.2 kHz – 0.8 kHz	Wechselton	95

 Der gewählte Ton kann über die Schaltfläche ► in der Tonauswahl getestet werden. Der Ton wird dabei über den Computer abgespielt.

3. Auf **Ton auswählen** klicken.



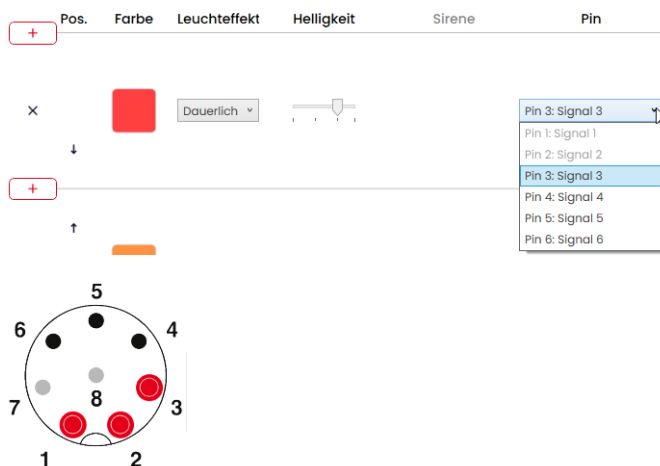
4.5.1.8 Pin wählen



Die Felder sind mit einer Standardbelegung vorkonfiguriert, von der unteren Stufe der Säule beginnend mit Pin 1.

Bereits verwendete Pins werden grau dargestellt. Die Belegung kann bei Bedarf beliebig verändert werden.

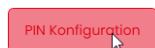
1. In der Spalte **Pins** den Pin des 8-poligen Steckers wählen, auf dem das Signal zum Auslösen der Stufe gesendet wird.



Pin-Konfiguration anpassen

Bei Bedarf kann die Zuordnung der Litzenfarbe zum Pin geändert und eine Beschreibung des Signals hinterlegt werden.

1. Unter der Pin-Übersicht auf **Pins konfigurieren** klicken.



→ Das Fenster **Pins konfigurieren** erscheint.

	Farbe	Beschreibung
Pin 1: Signal 1	WH	
Pin 2: Signal 2	BN	
Pin 3: Signal 3	GN	
Pin 4: Signal 4	YE	
Pin 5: Signal 5	GY	
Pin 6: Signal 6	PK	
Pin 7: COM	BU	
Pin 8: +24V	RD	

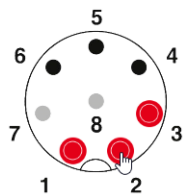
Speichern

2. In der Spalte **Farbe** die gewünschte Litzenfarbe eingeben.
3. In der Spalte **Beschreibung** die Beschreibung des Signals eingeben.
4. Auf **Speichern** klicken.

4.5.1.9 Ansteuerung simulieren

Nachdem alle Einstellungen vorgenommen wurden, kann die Ansteuerung simuliert werden.

1. In der Pin-Übersicht auf den Pin klicken, der die gewünschte Stufe aktivieren soll.



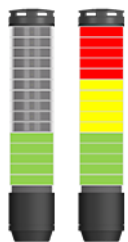
4.5.1.10 Konfiguration abschließen

1. Bei Bedarf weitere Änderungen an der Konfiguration vornehmen.
2. Sobald alle Stufen wie gewünscht konfiguriert sind, auf **Abschließen** klicken.
→ Das Fenster **Abschließen** erscheint.



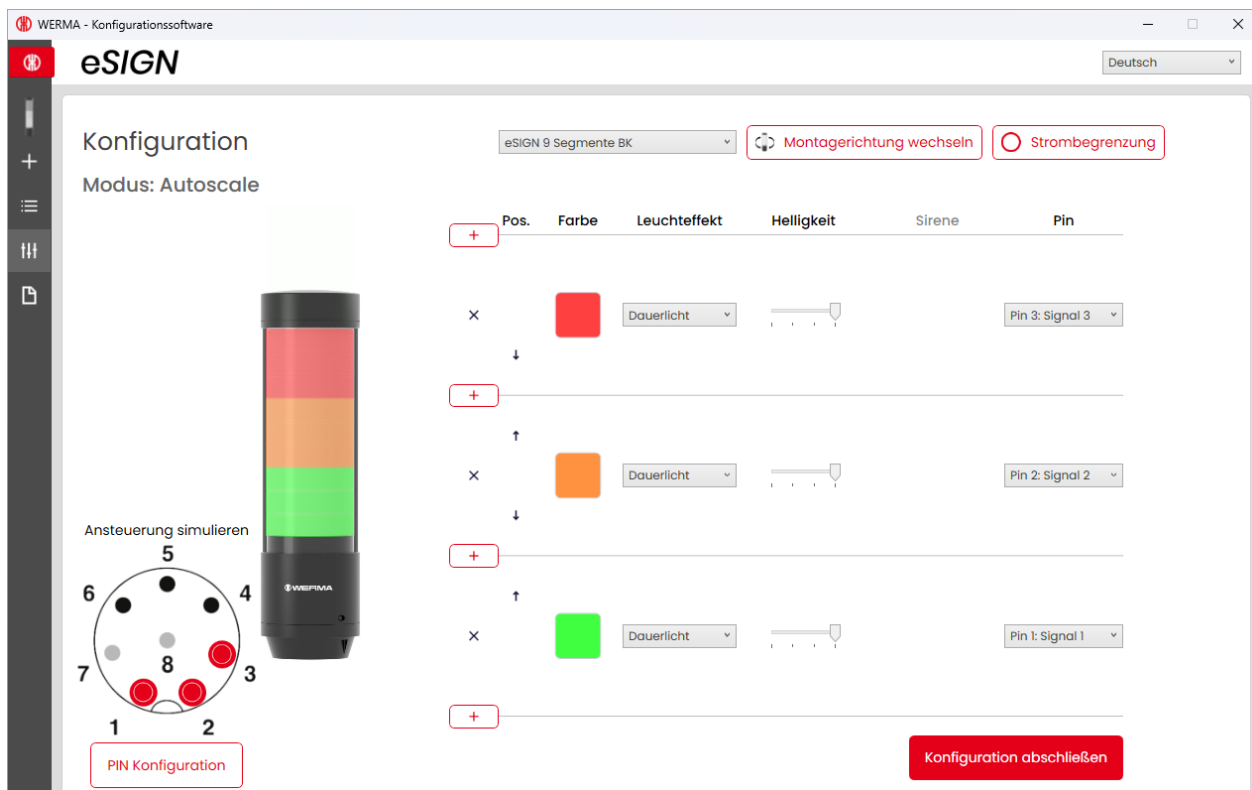
3. Auf **Speichern** klicken, um die Konfiguration in einer Konfigurationsdatei zu speichern.
4. Auf **Auf Gerät übertragen** klicken, um die Konfiguration auf die angeschlossene eSIGN zu übertragen.
5. Auf **Aktive Konfiguration als PDF anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration anzuzeigen.
6. Auf **Aktive Konfiguration als PDF speichern** klicken, um die Übersicht der aktuellen Konfiguration als PDF-Datei zu speichern.

4.5.2 Modus Signalsäule



Einzelne eSIGN-Segmente können zu einer Stufe zusammengeschaltet werden. Dadurch kann eine klassische Signalsäule in elektronisch modularer Form realisiert werden. In diesem Modus haben die Stufen feste Positionen und können aus sein, wenn die entsprechende Stufe und das optische Signal nicht aktiviert werden.

Durch diese Einstellung wird die beleuchtete Fläche eines Signals innerhalb der Säule auf einen bestimmten Bereich begrenzt.



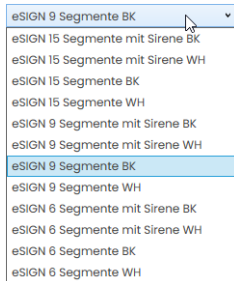
i Bei Bedarf kann die Ausrichtung der dargestellten Signalsäule über die Schaltfläche **Montagerichtung wechseln** um 180° gedreht werden.

i Bei Bedarf (z. B. um die Strombegrenzungen von Steuerungsausgängen berücksichtigen zu können) kann über die Schaltfläche **Strombegrenzung** die Leistungsaufnahme der eSIGN verringert werden. In diesem Fall wird der Strombedarf der Säule auf unter 500 mA reduziert. Als Folge wird die Helligkeit der optischen Signale bzw. die Lautstärke der akustischen Signale verringert.

4.5.2.1 eSIGN-Variante wählen

Falls eine eSIGN angeschlossen wurde, ist die Variante entsprechend vorausgewählt. Falls keine eSIGN angeschlossen wurde, kann die Variante der zu konfigurierenden eSIGN gewählt werden.

1. Bei Bedarf die Variante der zu konfigurierenden eSIGN wählen.



4.5.2.2 Stufe hinzufügen oder entfernen

Sobald im Modus **Signalsäule** eine Stufe hinzugefügt oder entfernt wird, werden die einzelnen eSIGN-Segmente automatisch neu aufgeteilt und gleichmäßig auf alle Stufen verteilt.

Stufe hinzufügen

1. Auf **Hinzufügen** klicken.



x

→ Eine Stufe wurde hinzugefügt.

Stufe entfernen

1. Auf **Entfernen** klicken.



→ Eine Stufe wurde entfernt.

4.5.2.3 Stufe verschieben

Bei Bedarf können die einzelnen Stufen nach oben oder unten verschoben werden.

1. In der Spalte **Pos.** auf den Pfeil nach oben oder auf den Pfeil nach unten klicken, um die Stufe nach oben bzw. nach unten zu verschieben.



4.5.2.4 Farbe wählen

Jeder Stufe kann eine vorgegebene Standardfarbe oder eine individuelle Farbe zugewiesen werden.

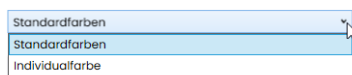
1. In der Spalte **Farbe** auf das Farbfeld klicken.



→ Das Fenster **Farbe auswählen** erscheint.



2. Wählen, ob eine Standardfarbe oder eine individuelle Farbe verwendet werden soll.



Standardfarbe

1. Auf das gewünschte Farbfeld klicken.

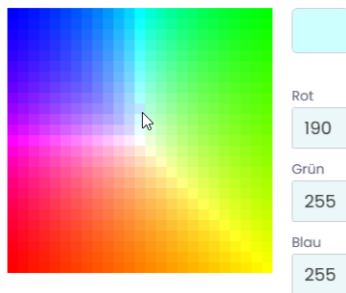


Folgende 8 Standardfarben stehen zur Verfügung:

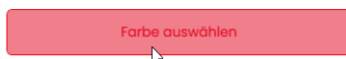
- rot
- gelb
- grün
- weiß
- blau
- hellgelb
- magenta
- türkis

Individualfarbe

1. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.



2. Auf **Farbe auswählen** klicken.



4.5.2.5 Leuchteffekt wählen

1. In der Spalte **Leuchteffekt** den gewünschten Leuchteffekt wählen.



Folgende 8 Leuchteffekte stehen zur Verfügung:

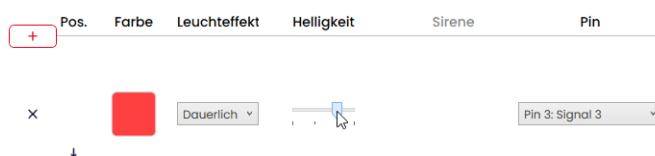
- Dauerlicht
- Blink 1Hz
- Blink 2Hz
- Blink 3Hz
- Blitz 1x
- Blitz 2x
- Blitz 3x
- Rundum
- Aus



Die Einstellung **Aus** kann gewählt werden, falls die Stufe nur mit Sirene belegt werden soll.

4.5.2.6 Helligkeit einstellen

1. In der Spalte **Helligkeit** aus den 4 Optionen die gewünschte Helligkeit der Stufe einstellen.



4.5.2.7 Sirene wählen

Falls die angeschlossene oder gewählte eSIGN eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung der Stufe ertönt.

-  Falls Signaltöne für mehrere Stufen hinterlegt und die Stufen gleichzeitig angesteuert werden, ertönt die Sirene für die Farbe mit der höchsten Priorität (höchste Stelle innerhalb der Säule).

1. In der Spalte **Sirene** auf **Kein Ton** klicken.



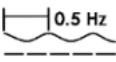
→ Das Fenster **Ton auswählen** erscheint.



2. Den gewünschten **Ton**, die gewünschte **Lautstärke** und **Max. Abspieldauer** wählen.

Folgende 10 Tonarten stehen zur Verfügung:

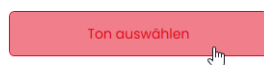
Ton	Frequenz	Beschreibung	Max. dB (A)
1	———— 2.7 kHz	Dauerton	104
2	———— 0.9 kHz	Dauerton	96
3	 2.1 kHz	Pulston	97
4	 0.9 kHz	Pulston	93
5	 2.6 kHz	Pulston	103
6	 0.9 kHz	Pulston	96
7	 2.7 kHz	Pulston	104

Ton	Frequenz	Beschreibung	Max. dB (A)
8	 0.5 Hz 2.3 kHz – 3.6 kHz	Wobbelton	104
9	 2.6 kHz	Dauerton	105
10	 1Hz 1.2 kHz – 0.8 kHz	Wechselton	95



Der gewählte Ton kann über die Schaltfläche ► in der Tonauswahl getestet werden. Der Ton wird dabei über den Computer abgespielt.

3. Auf **Ton auswählen** klicken.



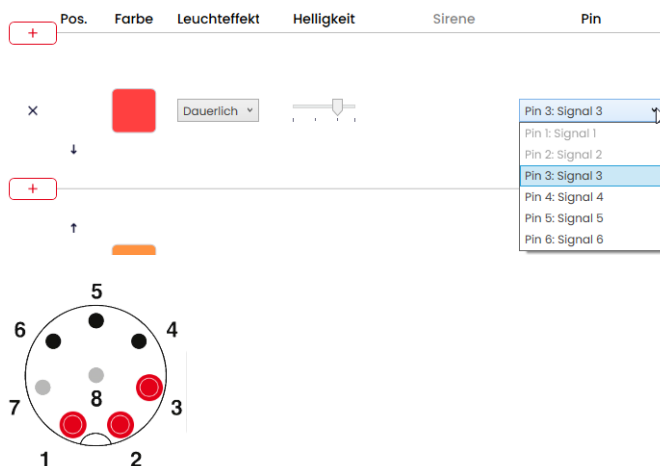
4.5.2.8 Pin wählen



Die Felder sind mit einer Standardbelegung vorkonfiguriert, von der unteren Stufe der Säule beginnend mit Pin 1.

Bereits verwendete Pins werden grau dargestellt. Die Belegung kann bei Bedarf beliebig verändert werden.

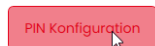
1. In der Spalte **Pins** den Pin des 8-poligen Steckers wählen, auf dem das Signal zum Auslösen der Stufe gesendet wird.



Pin-Konfiguration anpassen

Bei Bedarf kann die Zuordnung der Litzenfarbe zum Pin geändert und eine Beschreibung des Signals hinterlegt werden.

1. Unter der Pin-Übersicht auf **Pins konfigurieren** klicken.



→ Das Fenster **Pins konfigurieren** erscheint.

PIN Konfiguration

	Farbe	Beschreibung
Pin 1: Signal 1	WH	
Pin 2: Signal 2	BN	
Pin 3: Signal 3	GN	
Pin 4: Signal 4	YE	
Pin 5: Signal 5	GY	
Pin 6: Signal 6	PK	
Pin 7: COM	BU	
Pin 8: +24V	RD	

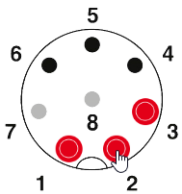
Speichern

2. In der Spalte **Farbe** die gewünschte Litzenfarbe eingeben.
3. In der Spalte **Beschreibung** die Beschreibung des Signals eingeben.
4. Auf **Speichern** klicken.

4.5.2.9 Ansteuerung simulieren

Nachdem alle Einstellungen vorgenommen wurden, kann die Ansteuerung simuliert werden.

1. In der Pin-Übersicht auf den Pin klicken, der die gewünschte Stufe aktivieren soll.



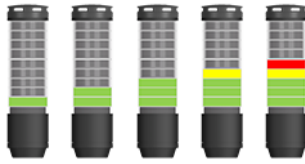
4.5.2.10 Konfiguration abschließen

1. Bei Bedarf weitere Änderungen an der Konfiguration vornehmen.
2. Sobald alle Stufen wie gewünscht konfiguriert sind, auf **Abschließen** klicken.
→ Das Fenster **Abschließen** erscheint.



3. Auf **Speichern** klicken, um die Konfiguration in einer Konfigurationsdatei zu speichern.
4. Auf **Auf Gerät übertragen** klicken, um die Konfiguration auf die angeschlossene eSIGN zu übertragen.
5. Auf **Aktive Konfiguration als PDF anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration anzuzeigen.
6. Auf **Aktive Konfiguration als PDF speichern** klicken, um die Übersicht der aktuellen Konfiguration als PDF-Datei zu speichern.

4.5.3 Modus Füllstand



In dieser Betriebsart werden die eSIGN-Segmente als Füllstandanzeige verwendet. Dies ermöglicht eine präzise Signalisierung des Auftragsfortschritts oder der Materialverfügbarkeit in Maschinenprozessen in Form eines aufbauenden oder abfallenden Leuchtbilds.

[illegible]

4.5.3.1 eS/GN-Variante wählen

Falls eine eSIGN angeschlossen wurde, ist die Variante entsprechend vorausgewählt. Falls keine eSIGN angeschlossen wurde, kann die Variante der zu konfigurierenden eSIGN gewählt werden.

1. Bei Bedarf im Feld **Gerät** die Variante der eSIGN wählen.

Gerät

eSIGN 9 Segmente BK	
eSIGN 15 Segmente mit Sirene BK	
eSIGN 15 Segmente mit Sirene WH	
eSIGN 15 Segmente BK	
eSIGN 15 Segmente WH	
eSIGN 9 Segmente mit Sirene BK	
eSIGN 9 Segmente mit Sirene WH	
eSIGN 9 Segmente BK	
eSIGN 9 Segmente WH	
eSIGN 6 Segmente mit Sirene BK	
eSIGN 6 Segmente mit Sirene WH	
eSIGN 6 Segmente BK	
eSIGN 6 Segmente WH	

4.5.3.2 Anzahl der Signalkombinationen wählen

1. Im Bereich **Anzahl der Signalkombinationen** wählen, wie viele eSIGN-Segmente für die Füllstandanzeige verwendet werden sollen.

Falls nicht alle eSIGN-Segmente für die Füllstandanzeige verwendet werden:

2. Im Feld **Aufteilung nicht zugeordnete Segmente** wählen, wie die eSIGN-Segmente angezeigt werden, die nicht für die Füllstandanzeige verwendet werden sollen.

Einstellung	Beschreibung
Top (Füllend)	Nicht zugeordnete eSIGN-Segmente werden oben angeordnet und mit der obersten Stufe geschaltet.
Unten (Füllend)	Nicht zugeordnete eSIGN-Segmente werden unten angeordnet und mit der untersten Stufe geschaltet.
Top (Ohne Funktion)	Nicht zugeordnete eSIGN-Segmente werden oben angeordnet und sind immer aus.
Unten (Ohne Funktion)	Nicht zugeordnete eSIGN-Segmente werden unten angeordnet und sind immer aus.

4.5.3.3 Farbe wählen

Für die Anzeige des Füllstands kann eine einheitliche Farbe oder ein Farbverlauf gewählt werden. Bei einem Farbverlauf wird der Verlauf der Farbtöne zwischen den beiden Farben automatisch berechnet.

Bei Bedarf kann die Farbe jedes einzelnen Segments der Füllstandanzeige zu einem späteren Zeitpunkt angepasst werden.

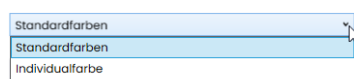
1. Im Feld **Farben** wählen, ob der Füllstand in einer einheitlicher Farbe oder als Farbverlauf dargestellt werden soll.

Einzelfarbe

1. Auf das Farbfeld klicken, um die gewünschte Farbe zu wählen.
→ Das Fenster **Farbe auswählen** erscheint.



2. Wählen, ob eine Standardfarbe oder eine individuelle Farbe verwendet werden soll.



Standardfarbe

1. Auf das gewünschte Farbfeld klicken.

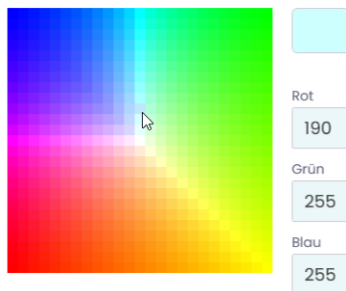


Folgende 8 Standardfarben stehen zur Verfügung:

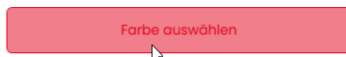
- rot
- gelb
- grün
- weiß
- blau
- hellgelb
- magenta
- türkis

Individualfarbe

1. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.



2. Auf **Farbe auswählen** klicken.



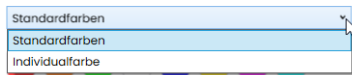
3. Auf **Konfiguration erstellen** klicken.
→ Der Bildschirm **Konfiguration** erscheint.

Farbverlauf

1. Auf die Farbfelder für die Start- und die Endfarbe des Farbverlaufs klicken.
→ Das Fenster **Farbe auswählen** erscheint.



2. Wählen, ob eine Standardfarbe oder eine individuelle Farbe verwendet werden soll.



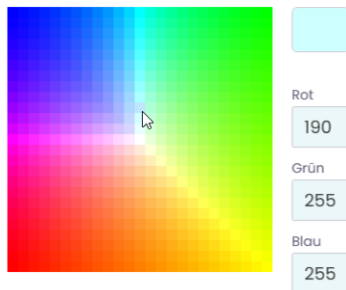
Standardfarbe

1. Auf das gewünschte Farbfeld klicken.



Individualfarbe

1. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Felder **Rot**, **Grün** und **Blau** eingeben.

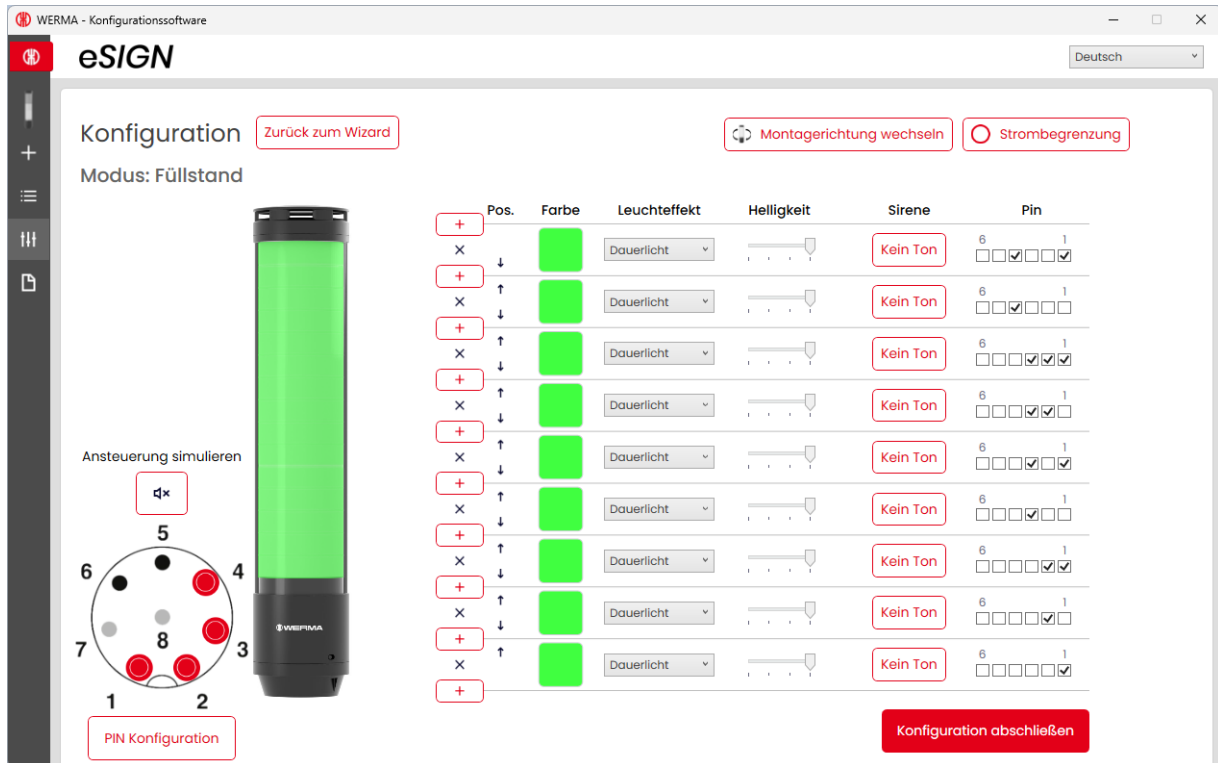


2. Auf **Farbe auswählen** klicken.



3. Auf **Konfiguration erstellen** klicken.
→ Der Bildschirm **Konfiguration** erscheint.

4.5.3.4 Füllstandanzeige konfigurieren



i Bei Bedarf kann die Ausrichtung der dargestellten Signalsäule über die Schaltfläche **Montagerichtung wechseln** um 180° gedreht werden.

i Bei Bedarf (z. B. um die Strombegrenzungen von Steuerungsausgängen berücksichtigen zu können) kann über die Schaltfläche **Strombegrenzung** die Leistungsaufnahme der eSIGN verringert werden. In diesem Fall wird der Strombedarf der Säule auf unter 500 mA reduziert. Als Folge wird die Helligkeit der optischen Signale bzw. die Lautstärke der akustischen Signale verringert.

i Bei Bedarf kann über den Link **Zurück zum Wizard** die Konfiguration der Farbe und Segmente erneut aufgerufen und angepasst werden.

Segmente entfernen oder hinzufügen

Segment entfernen

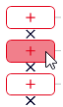
1. Auf **Entfernen** klicken.



→ Das Segment wurde entfernt.

Segment hinzufügen

1. Auf **Hinzufügen** klicken.



→ Das Segment wurde hinzugefügt.

Segmente verschieben

Bei Bedarf können die einzelnen Segmente nach oben oder unten verschoben werden.

1. In der Spalte **Pos.** auf den Pfeil nach oben oder auf den Pfeil nach unten klicken, um das Segment nach oben bzw. nach unten zu verschieben.

	Pos.	Farbe	Leuchteffekt	Helligkeit	Sirene	Pin				
x	↓		Dauerlich ▾		Kein Ton	6	☐	☐	☒	☒
x	↑		Dauerlich ▾		Kein Ton	6	☐	☐	☒	☒

Farbe wählen

Für jedes einzelne Segment kann bei Bedarf eine vorgegebene Standardfarbe gewählt oder eine individuelle Farbe zugewiesen werden.

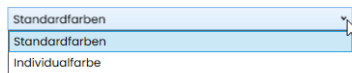
1. In der Spalte **Farbe** auf das Farbfeld klicken.

Pos.	Farbe	Leuchteffekt	Helligkeit	Sirene	Pin
x		Dauerlich ▾		Kein Ton	6 ☐ ☒ ☒ ☒ 1
x		Dauerlich ▾		Kein Ton	6 ☐ ☒ ☒ ☒ 1

→ Das Fenster **Farbe auswählen** erscheint.



2. Wählen, ob eine Standardfarbe oder eine individuelle Farbe verwendet werden soll.



Standardfarbe

1. Auf das gewünschte Farbfeld klicken.

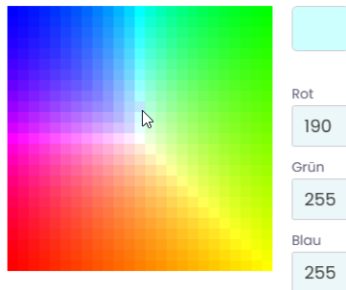


Folgende 8 Standardfarben stehen zur Verfügung:

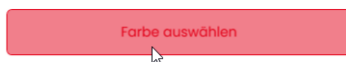
- rot
- gelb
- grün
- weiß
- blau
- hellgelb
- magenta
- türkis

Individualfarbe

1. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.



2. Auf **Farbe auswählen** klicken.



Leuchteffekt wählen

1. In der Spalte **Leuchteffekt** den gewünschten Leuchteffekt wählen.

	Pos.	Farbe	Leuchteffekt	Helligkeit	Sirene	Pin
x	↓	■	Dauerlich		Kein Ton	6 ☐ ☐ ☒ ☒ 1
x	↑	■	Dauerlicht		Kein Ton	6 ☐ ☐ ☒ ☒ 1
x	↓	■	Blink: 1Hz		Kein Ton	6 ☐ ☐ ☒ ☒ 1
x	↑	■	Blink: 2Hz		Kein Ton	6 ☐ ☐ ☒ ☒ 1
x	↓	■	Blink: 3Hz		Kein Ton	6 ☐ ☐ ☒ ☒ 1
x	↑	■	Blitz: 1x		Kein Ton	6 ☐ ☒ ☒ ☒ 1
x	↓	■	Blitz: 2x		Kein Ton	6 ☐ ☐ ☒ ☒ 1
x	↑	■	Blitz: 3x		Kein Ton	6 ☐ ☐ ☒ ☒ 1
x	↓	■	Rundum		Kein Ton	6 ☐ ☐ ☒ ☒ 1
x	↑	■	Aus		Kein Ton	6 ☐ ☐ ☒ ☒ 1

Folgende 8 Leuchteffekte stehen zur Verfügung:

- Dauerlicht
- Blink 1Hz
- Blink 2Hz
- Blink 3Hz
- Blitz 1x
- Blitz 2x
- Blitz 3x
- Rundum
- Aus



Die Einstellung **Aus** kann gewählt werden, falls die Stufe nur mit Sirene belegt werden soll.

Helligkeit einstellen

1. In der Spalte **Helligkeit** aus den 4 Optionen die gewünschte Helligkeit der Stufe einstellen.

Pos.	Farbe	Leuchteffekt	Helligkeit	Sirene	Pin
x	↓	■	Dauerlich	Kein Ton	6 1
x	↑	■	Dauerlich	Kein Ton	6 1

Sirene wählen

Falls die angeschlossene oder gewählte eSIGN eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung des Segments ertönt.



Falls Signaltöne für mehrere Stufen hinterlegt und die Stufen gleichzeitig angesteuert werden, ertönt die Sirene für die Farbe mit der höchsten Priorität (höchste Stelle innerhalb der Säule).

1. In der Spalte **Sirene** auf **Kein Ton** klicken.

Pos.	Farbe	Leuchteffekt	Helligkeit	Sirene	Pin
x	↓	■	Dauerlich	Kein Ton	6 1
x	↑	■	Dauerlich	Kein Ton	6 1

→ Das Fenster **Ton auswählen** erscheint.

Ton auswählen

Ton

Kein Ton

Lautstärke

Leise

Max. Abspieldauer

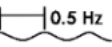
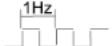
solange Signal aktiv ist

Ton auswählen

2. Den gewünschten **Ton**, die gewünschte **Lautstärke** und **Max. Abspieldauer** wählen.

Folgende 10 Tonarten stehen zur Verfügung:

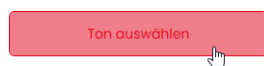
Ton	Frequenz	Beschreibung	Max. dB (A)
1	2.7 kHz	Dauerton	104
2	0.9 kHz	Dauerton	96
3	420Hz 2.1 kHz	Pulston	97
4	20Hz 0.9 kHz	Pulston	93
5	20Hz 2.6 kHz	Pulston	103
6	1Hz 0.9 kHz	Pulston	96

Ton	Frequenz	Beschreibung	Max. dB (A)
7	 2.7 kHz	Pulston	104
8	 2.3 kHz – 3.6 kHz	Wobbelton	104
9	 2.6 kHz	Dauerton	105
10	 1.2 kHz – 0.8 kHz	Wechselton	95



Der gewählte Ton kann über die Schaltfläche ► in der Tonauswahl getestet werden. Der Ton wird dabei über den Computer abgespielt.

3. Auf **Ton auswählen** klicken.



Pin wählen



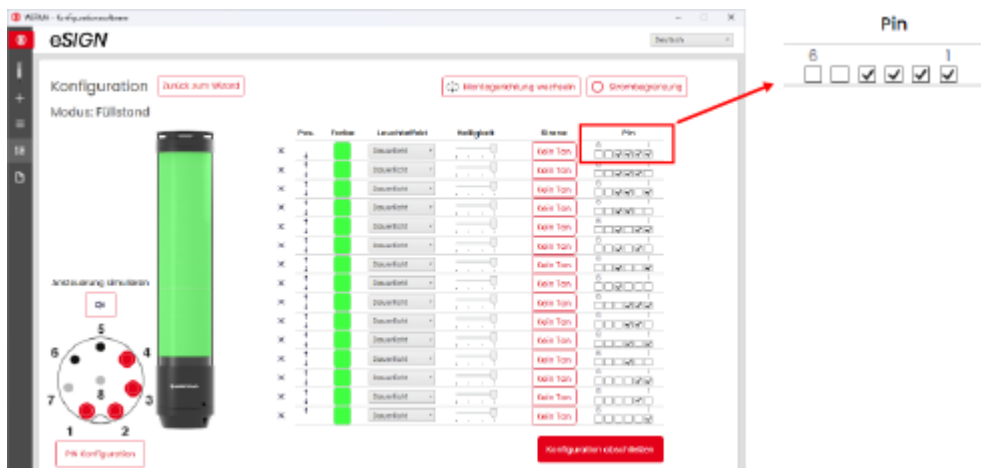
Die Felder sind mit einer Standardbelegung vorkonfiguriert, von der unteren Stufe der Säule beginnend mit Pin 1.

Bereits verwendete Pins werden grau dargestellt. Die Belegung kann bei Bedarf beliebig verändert werden.

Die Ansteuerung der Füllstandanzeige erfolgt über eine Bit-Codierung. Die Kontrollkästchen in der Spalte **Pins** entsprechen den 6 Pins bzw. Signalleitungen. Das Setzen eines Hakens in einem oder mehreren Kontrollkästchen zeigt an, dass diese Pins bzw. Signalleitungen angesteuert werden müssen, um die entsprechende Einstellung zu aktivieren.

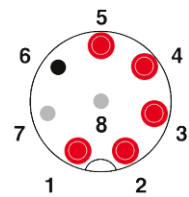
Beispiel:

Für die Darstellung der kompletten Säule in grün müssen die Pins 1-4 angesteuert werden.



1. In der Spalte **Pins** die Pins des 8-poligen Steckers wählen, auf dem das Signal zum Auslösen der Stufe gesendet wird.

Pos.	Farbe	Leuchteffekt	Helligkeit	Sirene	Pin
x	↓			Kein Ton	8 ☐ ☒ ☒ ☒ ☒ ☒ ☒ ☒
x	↑			Kein Ton	8 ☐ ☒ ☒ ☒ ☒ ☒ ☒ ☒



Pin-Konfiguration anpassen

Bei Bedarf kann die Zuordnung der Litzenfarbe zum Pin geändert und eine Beschreibung des Signals hinterlegt werden.

1. Unter der Pin-Übersicht auf **Pins konfigurieren** klicken.

PIN Konfiguration

→ Das Fenster **Pins konfigurieren** erscheint.

	Farbe	Beschreibung
Pin 1: Signal 1	WH	
Pin 2: Signal 2	BN	
Pin 3: Signal 3	GN	
Pin 4: Signal 4	YE	
Pin 5: Signal 5	GY	
Pin 6: Signal 6	PK	
Pin 7: COM	BU	
Pin 8: +24V	RD	

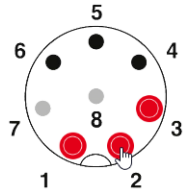
Speichern

2. In der Spalte **Farbe** die gewünschte Litzenfarbe eingeben.
3. In der Spalte **Beschreibung** die Beschreibung des Signals eingeben.
4. Auf **Speichern** klicken.

4.5.3.5 Ansteuerung simulieren

Nachdem alle Einstellungen vorgenommen wurden, kann die Ansteuerung simuliert werden.

1. In der Pin-Übersicht auf den Pin klicken, der die gewünschte Stufe aktivieren soll.



4.5.3.6 Konfiguration abschließen

1. Bei Bedarf weitere Änderungen an der Konfiguration vornehmen.
2. Sobald alle Stufen wie gewünscht konfiguriert sind, auf **Abschließen** klicken.
→ Das Fenster **Abschließen** erscheint.



3. Auf **Speichern** klicken, um die Konfiguration in einer Konfigurationsdatei zu speichern.
4. Auf **Auf Gerät übertragen** klicken, um die Konfiguration auf die angeschlossene eSIGN zu übertragen.
5. Auf **Aktive Konfiguration als PDF anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration anzuzeigen.
6. Auf **Aktive Konfiguration als PDF speichern** klicken, um die Übersicht der aktuellen Konfiguration als PDF-Datei zu speichern.

4.5.4 Modus Individual



In dieser Betriebsart wird eine beliebige Kombination aus individuellen Segmenteinstellungen als eigenes Schaltsignal abgebildet. Jedes eSIGN-Segment kann individuell eingestellt und die Gesamteinstellung für die komplette Säule als ein Signalbild angesteuert werden. Der Modus **Individual** ermöglicht auf diese Art und Weise ein Maximum an individuellen Signalisierungsmöglichkeiten.

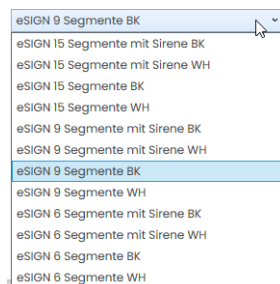


4.5.4.1 eSIGN-Variante wählen

Falls eine eSIGN angeschlossen wurde, ist die Variante entsprechend vorausgewählt. Falls keine eSIGN angeschlossen wurde, kann die Variante der zu konfigurierenden eSIGN gewählt werden.

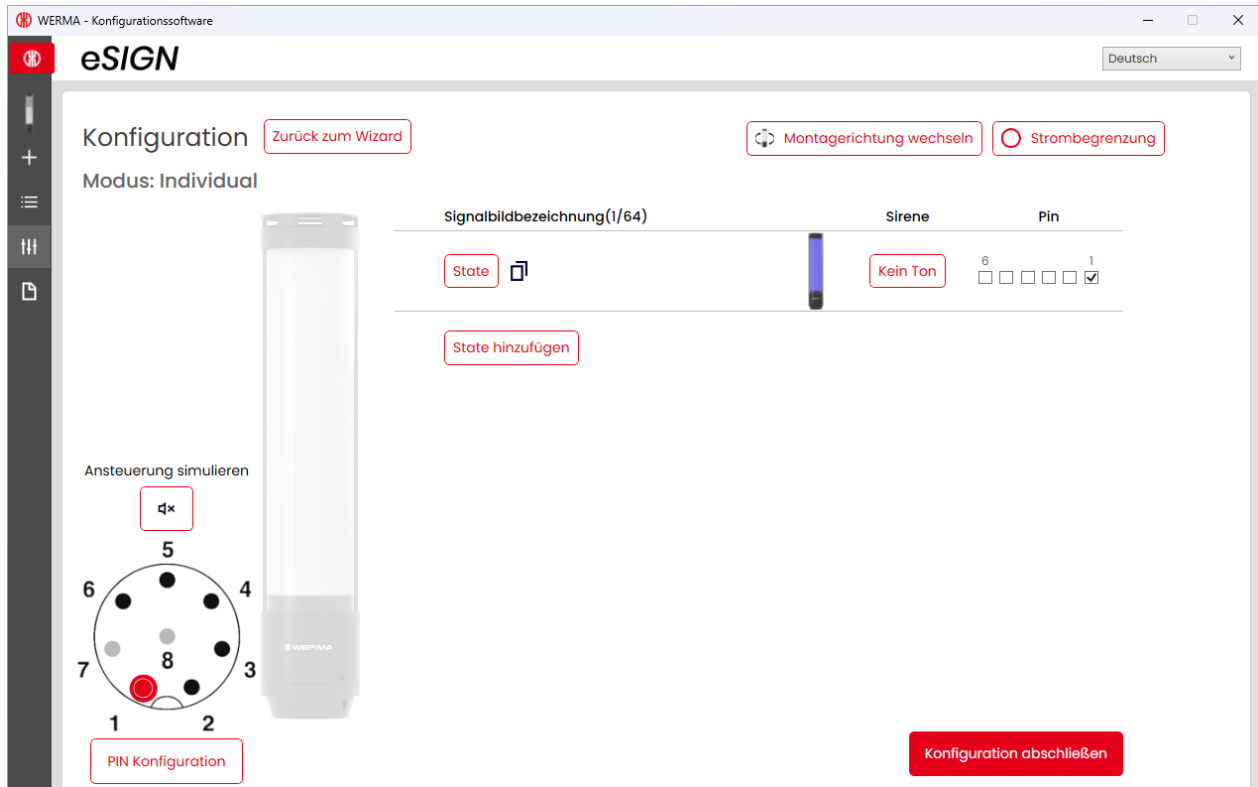
1. Bei Bedarf im Feld **Gerät** die Variante der eSIGN wählen.

Gerät



2. Auf **Konfiguration erstellen** klicken.
→ Der Bildschirm **Konfiguration** erscheint.

4.5.4.2 Signalbilder konfigurieren



i Bei Bedarf kann die Ausrichtung der dargestellten Signalsäule über die Schaltfläche **Montagerichtung wechseln** um 180° gedreht werden.

i Bei Bedarf (z. B. um die Strombegrenzungen von Steuerungsausgängen berücksichtigen zu können) kann über die Schaltfläche **Strombegrenzung** die Leistungsaufnahme der eSIGN verringert werden. In diesem Fall wird der Strombedarf der Säule auf unter 500 mA reduziert. Als Folge wird die Helligkeit der optischen Signale bzw. die Lautstärke der akustischen Signale verringert.

i Bei Bedarf kann über den Link **Zurück zum Wizard** die Konfiguration der eSIGN-Variante erneut aufgerufen und angepasst werden.

Signalbild anpassen



Es können bis zu 64 Signalbilder konfiguriert und auf eine eSIGN übertragen werden.

Ein Signalbild besteht aus den einzelnen optischen Einstellungen jedes Segments und ggf. einem Signalton.

1. Auf **Zustand** klicken.

Signalbildbezeichnung(1/64)



→ Das Fenster **Zustand** erscheint.

Stufe verbinden	Pos	Farbe	Leuchteffekt	Helligkeit
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%
0	↓	Blue	Dauerlicht	100%



Bei Bedarf kann das aktuelle Signalbild über die Schaltfläche **Zurücksetzen** auf die Standardeinstellungen zurückgesetzt werden.

Signalbild benennen

1. Im Feld **Zustand** eine Bezeichnung für das aktuelle Signalbild eingeben.

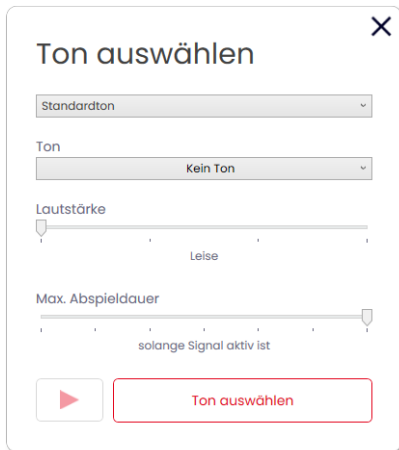
Sirene wählen

Falls die angeschlossene oder gewählte eSIGN eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung des Signalbilds ertönt.

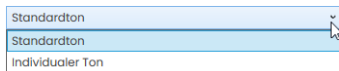
1. Im Feld **Sirene** auf **Kein Ton** klicken.



→ Das Fenster **Ton auswählen** erscheint.



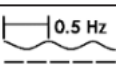
2. Wählen, ob ein Standardton oder ein individueller Ton verwendet werden soll.



Standardton

3. Den gewünschten **Ton**, die gewünschte **Lautstärke** und **Max. Abspieldauer** wählen.

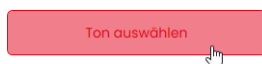
Folgende 10 Tonarten stehen zur Verfügung:

Ton	Frequenz	Beschreibung	Max. dB (A)
1	 2.7 kHz	Dauerton	104
2	 0.9 kHz	Dauerton	96
3	 420Hz 2.1 kHz	Pulston	97
4	 20Hz 0.9 kHz	Pulston	93
5	 20Hz 2.6 kHz	Pulston	103
6	 1Hz 0.9 kHz	Pulston	96
7	 1Hz 2.7 kHz	Pulston	104
8	 0.5 Hz 2.3 kHz – 3.6 kHz	Wobbelton	104
9	 2.6 kHz	Dauerton	105
10	 1Hz 1.2 kHz – 0.8 kHz	Wechselton	95



Der gewählte Ton kann über die Schaltfläche ► in der Tonauswahl getestet werden. Der Ton wird dabei über den Computer abgespielt.

4. Auf **Ton auswählen** klicken.



Individueller Ton

DE

Individualer Ton

Grafische Parameterbeschreibung

Lautstärke

Leise

Tonart

Dauerton

Haltedauer Frequenz 2(ms)

0

Frequenz 1 (Hz)

1000

Folge/Anzahl

0

Pause bis Wiederholung (ms)

0

Pause zwischen Zyklen (ms)

0

Ton auswählen

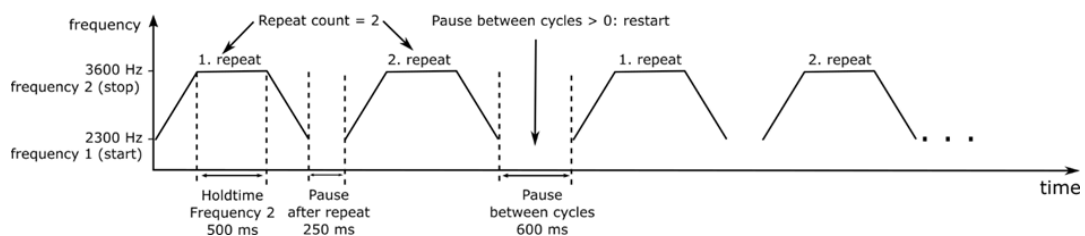
1. Einstellungen wie gewünscht vornehmen.



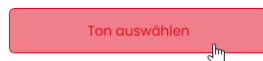
Die Option **Individueller Ton** bietet die Möglichkeit, aus verschiedenen Parametern, einen kundenindividuellen Ton zu generieren.

Weiterführende Informationen zu den einzelnen Einstellungen können über die Schaltfläche **Grafische Parameterbeschreibung** und durch einen Klick auf ? aufgerufen werden.

Über die Schaltfläche **Grafische Parameterbeschreibung** kann folgendes Bild abgerufen werden, um die Auswirkung der einzelnen Einstellungen zu verdeutlichen:



2. Auf **Ton auswählen** klicken.



Segmente verbinden oder trennen

Bei Bedarf können mehrere Segmente zu einer Stufe verbunden und wieder getrennt werden.

Segmente verbinden

1. In der Spalte **Stufen verbinden** auf das Symbol **Stufen verbinden** klicken.



Segmente trennen

1. In der Spalte **Stufen verbinden** auf das Symbol **Stufen trennen** klicken.



Stufen verschieben

Bei Bedarf können die einzelnen Stufen nach oben oder unten verschoben werden.

1. In der Spalte **Pos.** auf den Pfeil nach oben oder auf den Pfeil nach unten klicken, um die Stufe nach oben bzw. nach unten zu verschieben.

Stufe verbinden	Pos	Farbe	Leuchteffekt	Helligkeit
	↓		Dauerlicht	
	↑		Dauerlicht	
	↓		Dauerlicht	

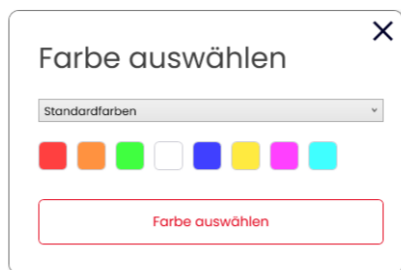
Farbe wählen

Für jedes einzelne Segment kann bei Bedarf eine vorgegebene Standardfarbe gewählt oder eine individuelle Farbe zugewiesen werden.

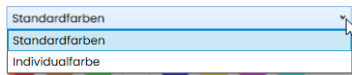
1. In der Spalte **Farbe** auf das Farbfeld klicken.

Stufe verbinden	Pos	Farbe	Leuchteffekt	Helligkeit
	↓		Dauerlicht	
	↑		Dauerlicht	

→ Das Fenster **Farbe auswählen** erscheint.



2. Wählen, ob eine Standardfarbe oder eine individuelle Farbe verwendet werden soll.



Standardfarbe

1. Auf das gewünschte Farbfeld klicken.

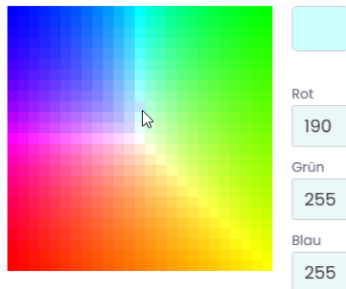


Folgende 8 Standardfarben stehen zur Verfügung:

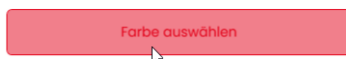
- rot
- gelb
- grün
- weiß
- blau
- hellgelb
- magenta
- türkis

Individualfarbe

1. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.



2. Auf **Farbe auswählen** klicken.



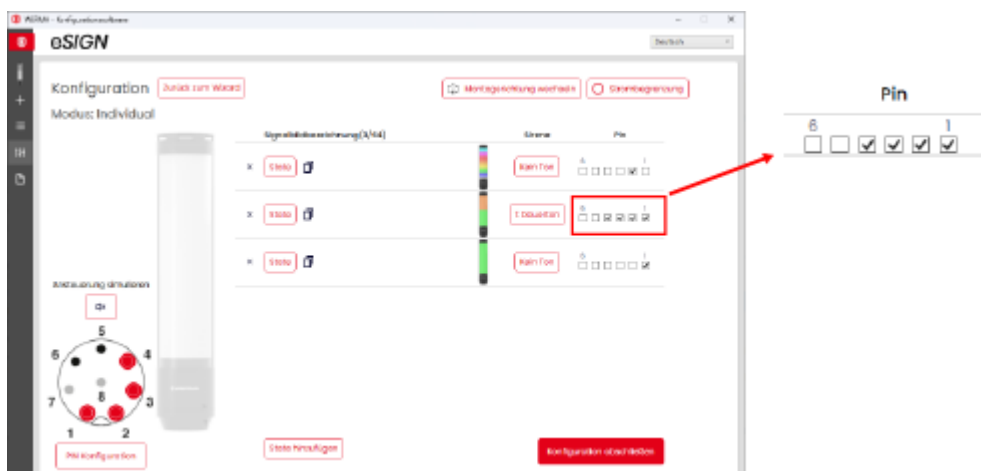
4.5.4.3 Pin wählen

- i** Die Felder sind mit einer Standardbelegung vorkonfiguriert.
Die Belegung kann bei Bedarf beliebig verändert werden.

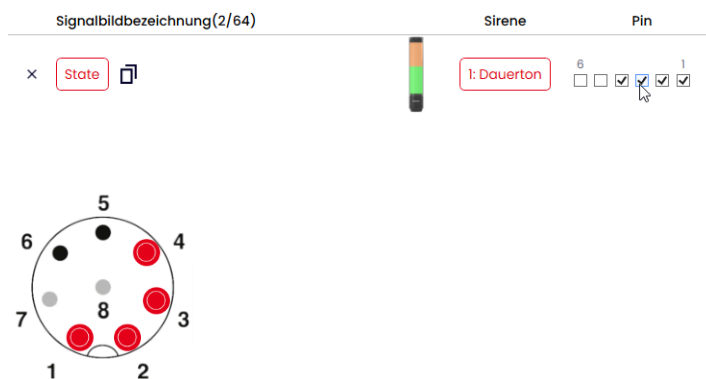
Die Ansteuerung der einzelnen Signalbilder erfolgt über eine Bit-Codierung. Die Kontrollkästchen in der Spalte **Pins** entsprechen den 6 Pins bzw. Signalleitungen. Das Setzen eines Hakens in einem oder mehreren Kontrollkästchen zeigt an, dass diese Pins bzw. Signalleitungen angesteuert werden müssen, um das entsprechende Signalbild zu aktivieren.

Beispiel:

Für die Aktivierung des zweiten Signalbilds müssen die Pins 1-4 angesteuert werden.



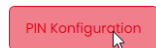
1. In der Spalte **Pins** die Pins des 8-poligen Steckers wählen, auf dem das Signal zum Auslösen des Signalbilds gesendet wird.



Pin-Konfiguration anpassen

Bei Bedarf kann die Zuordnung der Litzenfarbe zum Pin geändert und eine Beschreibung des Signals hinterlegt werden.

1. Unter der Pin-Übersicht auf **Pins konfigurieren** klicken.



→ Das Fenster **Pins konfigurieren** erscheint.

	Farbe	Beschreibung
Pin 1: Signal 1	WH	
Pin 2: Signal 2	BN	
Pin 3: Signal 3	GN	
Pin 4: Signal 4	YE	
Pin 5: Signal 5	GY	
Pin 6: Signal 6	PK	
Pin 7: COM	BU	
Pin 8: +24V	RD	

Speichern

2. In der Spalte **Farbe** die gewünschte Litzenfarbe eingeben.
3. In der Spalte **Beschreibung** die Beschreibung des Signals eingeben.
4. Auf **Speichern** klicken.

4.5.4.4 Signalbild duplizieren



Es können bis zu 64 Signalbilder konfiguriert und auf eine eSIGN übertragen werden.

Ein Signalbild besteht aus den einzelnen optischen Einstellungen jedes Segments und ggf. einem Signalton.

1. In der Zeile des gewünschten Signalbilds auf **Duplizieren** klicken.



2. Das Signalbild wie beschrieben konfigurieren.

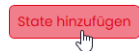
4.5.4.5 Signalbild hinzufügen



Es können bis zu 64 Signalbilder konfiguriert und auf eine eSIGN übertragen werden.

Ein Signalbild besteht aus den einzelnen optischen Einstellungen jedes Segments und ggf. einem Signalton.

1. Auf **Zustand hinzufügen** klicken.



2. Signalbild wie beschrieben konfigurieren.

4.5.4.6 Signalbild löschen

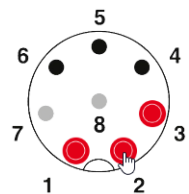
1. In der Zeile des gewünschten Signalbilds auf **Entfernen** klicken.



4.5.4.7 Ansteuerung simulieren

Nachdem alle Einstellungen vorgenommen wurden, kann die Ansteuerung simuliert werden.

1. In der Pin-Übersicht auf den Pin klicken, der das gewünschte Signalbild aktivieren soll.



4.5.4.8 Konfiguration abschließen

1. Bei Bedarf weitere Änderungen an der Konfiguration vornehmen.
2. Sobald alle Signalbilder wie gewünscht konfiguriert sind, auf **Abschließen** klicken.
→ Das Fenster **Abschließen** erscheint.

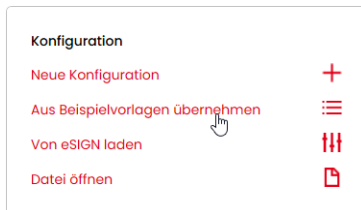


3. Auf **Speichern** klicken, um die Konfiguration in einer Konfigurationsdatei zu speichern.
4. Auf **Auf Gerät übertragen** klicken, um die Konfiguration auf die angeschlossene eSIGN zu übertragen.
5. Auf **Aktive Konfiguration als PDF anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration anzuzeigen.
6. Auf **Aktive Konfiguration als PDF speichern** klicken, um die Übersicht der aktuellen Konfiguration als PDF-Datei zu speichern.

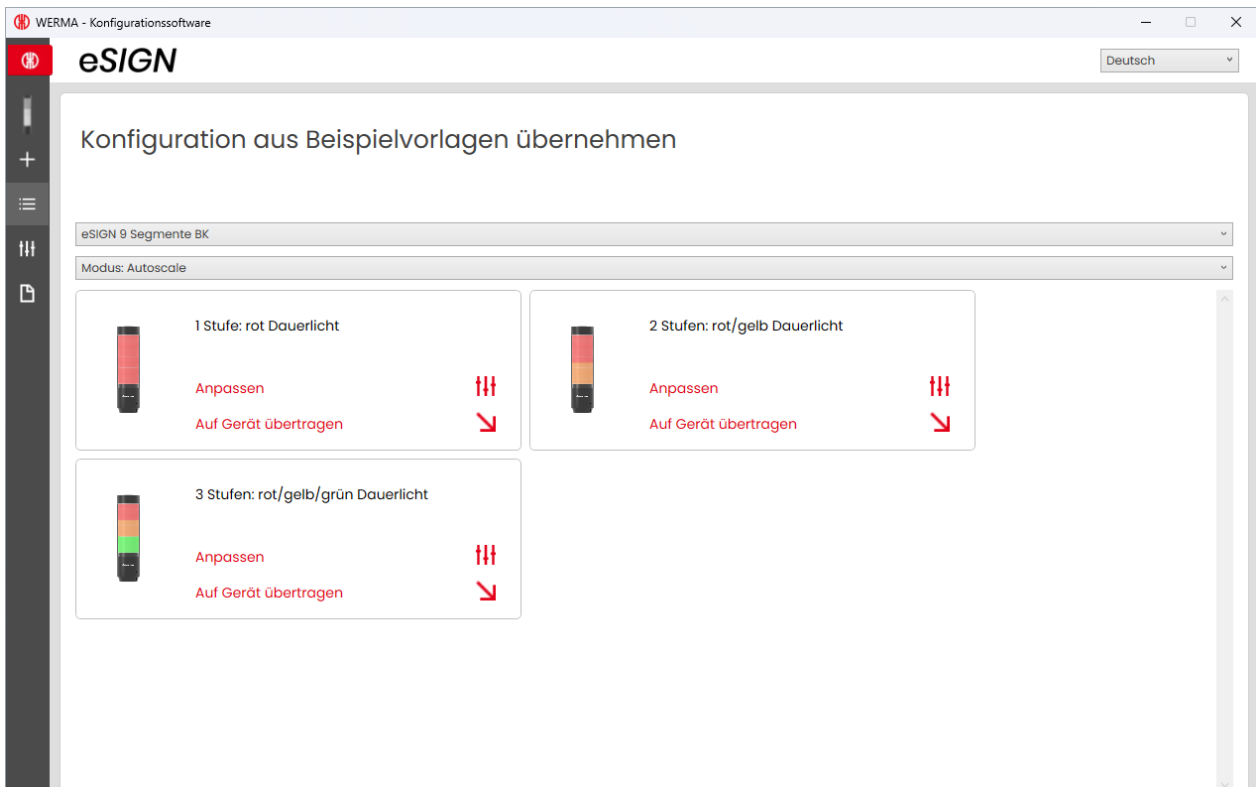
4.6 Konfiguration aus Beispielvorlagen übernehmen

Die WERMA - Konfigurationssoftware stellt verschiedene vordefinierte Konfigurationen bereit, die direkt auf eine angeschlossene eSIGN übertragen oder als Grundlage für eigene Konfigurationen verwendet werden können.

1. Im Bereich **Konfiguration** auf **Aus Beispielvorlagen übernehmen** klicken.



→ Das Fenster **Konfiguration aus Beispielvorlagen übernehmen** erscheint.



2. Variante der eSIGN wählen.
3. Modus wählen.
→ Die verfügbaren Vorlagen werden angezeigt.
4. In der gewünschten Vorlage auf **Anpassen** klicken, um die Vorlage zu laden und weiter zu bearbeiten.
5. Auf **Auf Gerät übertragen** klicken, um die Vorlage zu laden und direkt auf die angeschlossene eSIGN zu übertragen.

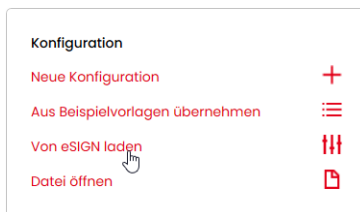


Für weitere Informationen zur Konfiguration, siehe "Neue Konfiguration erstellen", S. 17.

4.7 Konfiguration von der angeschlossenen eSIGN laden

Falls eine eSIGN am Computer angeschlossen ist, bietet die WERMA - Konfigurationssoftware die Möglichkeit, die aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung zu öffnen. Falls keine eSIGN angeschlossen ist, ist dieser Menüpunkt verblasst.

1. Im Bereich **Konfiguration** auf **Von eSIGN laden** klicken.



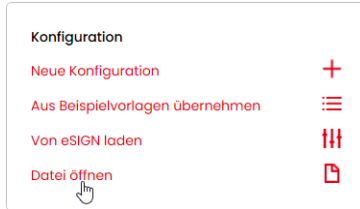
→ Das Fenster **Konfiguration** erscheint im eingestellten Modus und ist bereits mit der aktuellen Konfiguration befüllt.



Für weitere Informationen zur Konfiguration, siehe "Neue Konfiguration erstellen", S. 17.

4.8 Konfiguration aus Datei öffnen

1. Im Bereich **Konfiguration** auf **Datei öffnen** klicken.



2. Gewünschte Konfigurationsdatei wählen und auf **Öffnen** klicken.



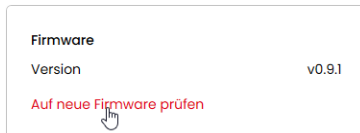
Alternativ können über das Seitenmenü die zuletzt verwendeten Konfigurationen angezeigt werden (siehe "Überblick", S. 15).

4.9 Firmware aktualisieren

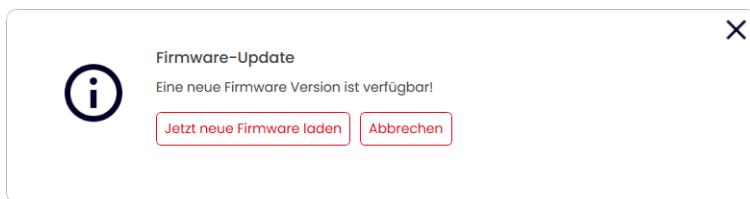


Um eine Firmware-Aktualisierung durchführen zu können, muss der Computer mit dem Internet verbunden und eine eSIGN angeschlossen sein.

1. Im Bereich **Firmware** auf **Auf neue Firmware prüfen** klicken.



- Die WERMA - Konfigurationssoftware sucht nach Firmware-Aktualisierungen für die angeschlossene eSIGN.
- Falls eine Aktualisierung gefunden wurde, erscheint eine entsprechende Meldung.



2. Auf **Jetzt neue Firmware laden** klicken.
→ Die neue Firmware wird auf die angeschlossene eSIGN übertragen.

5 MC55 Touch Smart konfigurieren

5.1 Funktion

Mit dem neuen MC55 Touch Smart wird aus einer mehrfarbigen Statusleuchte eine interaktive Schnittstelle für Bediener. Mit der intuitiven Konfigurationssoftware lassen sich einfach mehrere Signalisierungsmodi mit verschiedenen Farben, Leuchtbildern und Tönen sowie zeitgesteuerte Eskalationen realisieren.

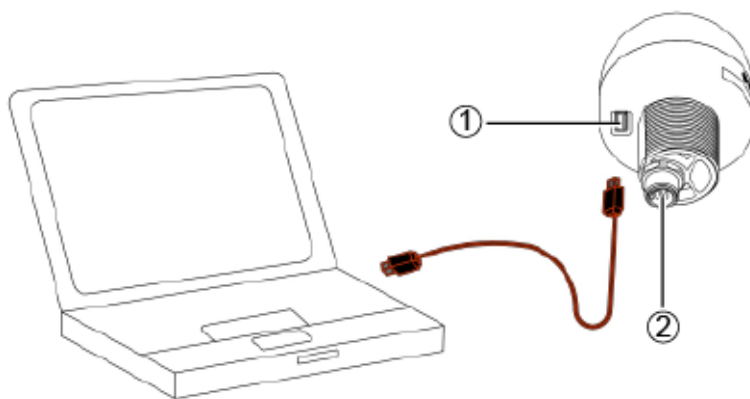
Von einer einfachen Quittierung eines akustischen Alarms, über das Durchschalten eines 24-V-Signals, bis zur Abbildung von Prozessabläufen mithilfe zeitgesteuerter Eskalationen bietet der MC55 Touch Smart unterschiedlichste Einsatzmöglichkeiten.

5.2 Hardware-Beschreibung

Die Informationen zur Hardware gelten für folgende Artikelnummern:

- 240.160.55 MC55 Touch S 24VDC
- 240.170.55 MC55 Touch S 24VDC Akustik

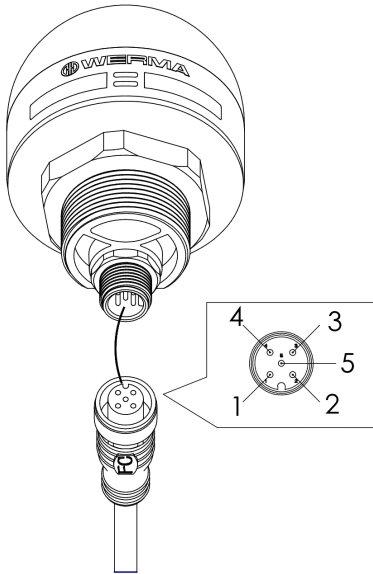
5.2.1 Übersicht Anschlussbereich



Pos.	Beschreibung
1	USB-C-Anschluss
2	M12-Stecker 5-polig

5.2.2 Übersicht M12-Stecker 5-polig

Der Anschluss des MC55 Touch Smart erfolgt über einen 5-poligen M12-Stecker mit folgender Belegung:

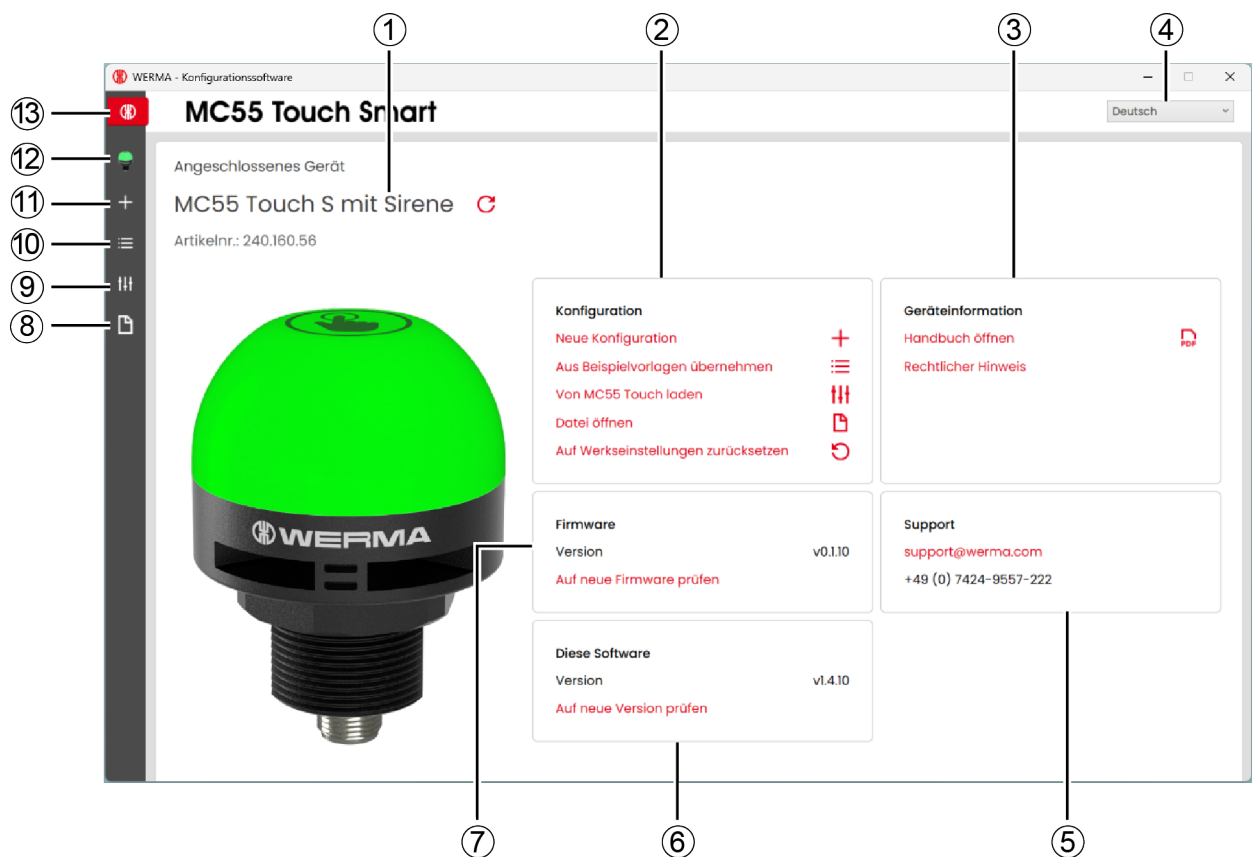


M12 Pinbelegung	Litzenfarbe M12-Kabel	Funktion
1	braun	Signal 1
2	weiß	Signal 2
3	blau	COM
4	schwarz	Ausgang 24 V; 200 mA
5	grau	Signal 3

5.2.3 Standardeinstellung

Der MC55 Touch Smart wird standardmäßig im Modus Schalter ausgeliefert. Bei Aktivierung des Touch Inputs werden 24 V am Ausgang geschaltet.

5.3 Überblick



Pos.	Beschreibung
1	Variante des angeschlossenen MC55 Touch Smart
2	Bereich Konfiguration
3	Bereich Geräteinformation
4	Sprache einstellen
5	Bereich Support
6	Bereich Diese Software
7	Bereich Firmware
8	Konfiguration aus Datei öffnen
9	Bestehende Konfiguration bearbeiten
10	Konfiguration aus Beispielvorlagen übernehmen
11	Neue Konfiguration erstellen
12	Startbildschirm aufrufen
13	Geräteauswahl eSIGN, MC55 Touch Smart, MC55 High Smart, MC55 Smart

5.3.1 Bereich Konfiguration

Im Bereich **Konfiguration** gibt es folgende Möglichkeiten, eine Konfiguration vorzunehmen:

- **Neue Konfiguration:** Eine neue Konfiguration erstellen (siehe "Neue Konfiguration erstellen", S. 70).
- **Aus Beispielvorlagen übernehmen:** Standard-Vorlagen öffnen, die sofort auf das Gerät überspielt werden können (siehe "Konfiguration aus Beispielvorlagen übernehmen", S. 83).
- **Von MC55 Touch laden:** Aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung öffnen (siehe "Konfiguration vom angeschlossenen MC55 Touch Smart laden", S. 85).
- **Datei öffnen:** Eine bestehende Konfiguration öffnen und wiederverwenden (siehe "Konfiguration aus Datei öffnen", S. 86).
- **Auf Werkseinstellungen zurücksetzen:** Angeschlossene MC55 Touch Smart auf Werkseinstellungen zurücksetzen (siehe "Auf Werkseinstellungen zurückeinsetzen", S. 86).

5.3.2 Bereich Geräteinformation

Im Bereich **Geräteinformation** können das Handbuch und rechtliche Hinweise aufgerufen werden.

5.3.3 Bereich Support

Im Bereich **Support** werden die Kontaktinformationen des WERMA-Supports angezeigt.

5.3.4 Bereich Diese Software

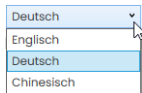
Im Bereich **Diese Software** wird der Versionsstand der WERMA - Konfigurationssoftware angezeigt und eine Möglichkeit zur Aktualisierung der Konfigurationssoftware angeboten.

5.3.5 Bereich Firmware

Im Bereich **Firmware** werden Informationen zur Firmware des angeschlossenen MC55 Touch Smart angezeigt und eine Möglichkeit zur Aktualisierung der Firmware angeboten.

5.4 Sprache einstellen

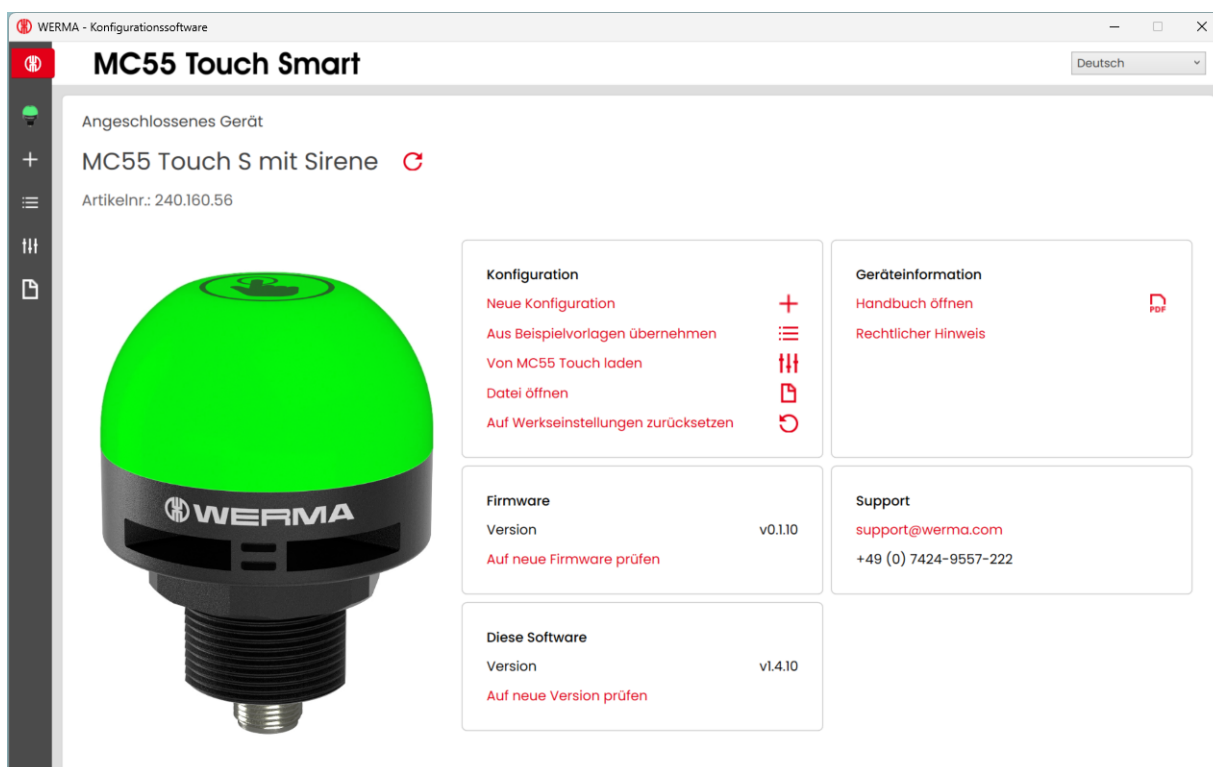
1. Im Auswahlmenü die gewünschte Sprache wählen.



5.5 Neue Konfiguration erstellen

- i Die Konfiguration kann mit oder ohne angeschlossenen MC55 Touch Smart durchgeführt werden.
- i Der MC55 Touch Smart kann gleichzeitig per USB-Kabel mit einem Computer und mit der 24-V-Stromversorgung über das M12-Kabel verbunden werden.

1. MC55 Touch Smart per USB-Kabel an Computer anschließen.
→ Die WERMA - Konfigurationssoftware erkennt den angeschlossenen MC55 Touch Smart.

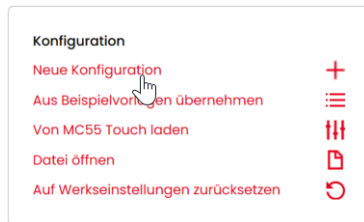


2. Falls die WERMA - Konfigurationssoftware den angeschlossenen MC55 Touch Smart nicht erkennt: Auf **Angeschlossenenes Gerät aktualisieren** klicken.

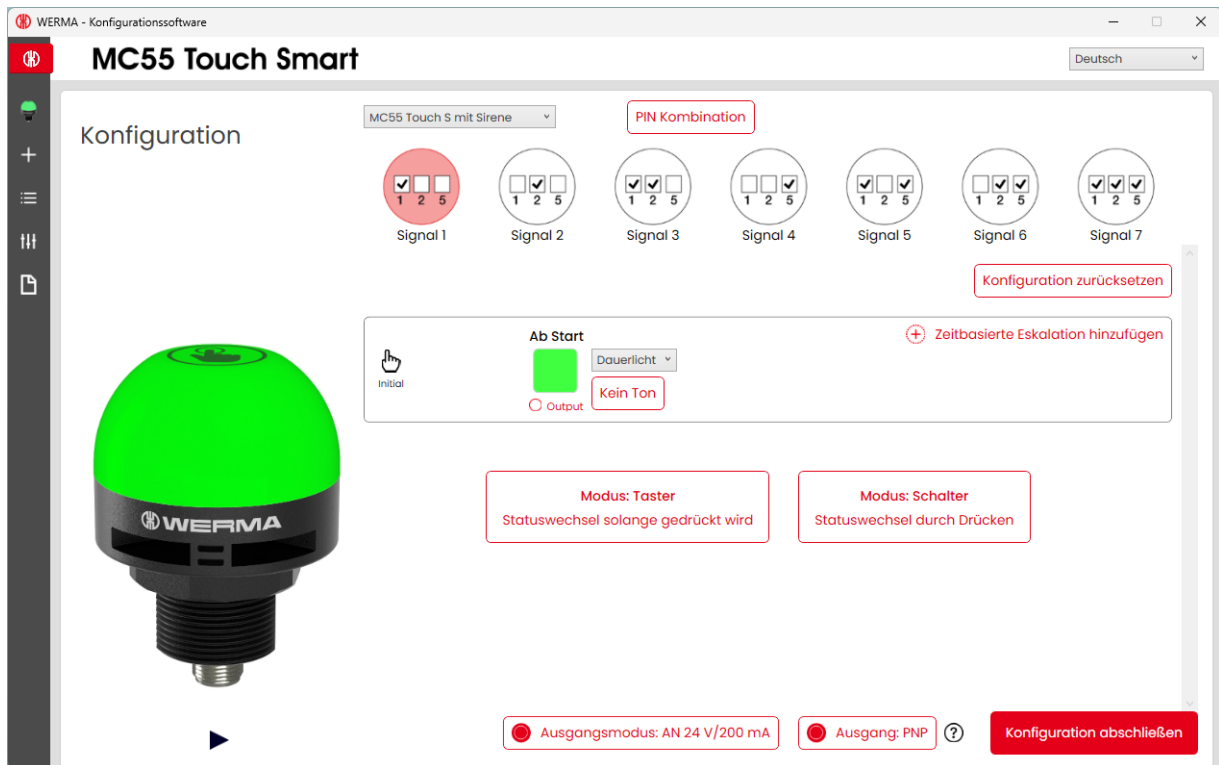
kein Gerät verbunden 

5 MC55 Touch Smart konfigurieren

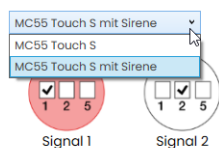
3. Im Bereich **Konfiguration** auf **Neue Konfiguration** klicken.



→ Der Bildschirm **Konfiguration** erscheint.



4. Bei Bedarf die Variante des zu konfigurierenden MC55 Touch Smart wählen.

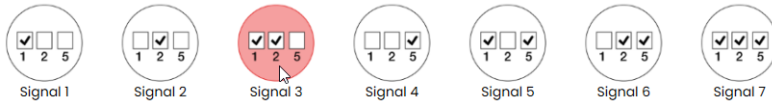


5. **Modus: Schalter** oder **Modus: Taster** wählen.

5.5.1 Signaleingang wählen

Jeder Signaleingang kann separat konfiguriert werden. Die Icons zeigen die entsprechende PIN-Belegung.

1. Auf gewünschten Signaleingang klicken.



5.5.1.1 Signaleingang umbenennen

Bei Bedarf können die Signaleingänge umbenannt und mit einer Beschreibung ergänzt werden.

1. Über der Übersicht der Eingangssignale auf **PIN Kombination** klicken.

PIN Kombination

→ Das Fenster **PIN Kombination** erscheint.

X

PIN Kombination

	Kurzname	Beschreibung
Signal 1: 001	Signal 1	
Signal 2: 010	Signal 2	
Signal 3: 011	Signal 3	
Signal 4: 100	Signal 4	
Signal 5: 101	Signal 5	
Signal 6: 110	Signal 6	
Signal 7: 111	Signal 7	

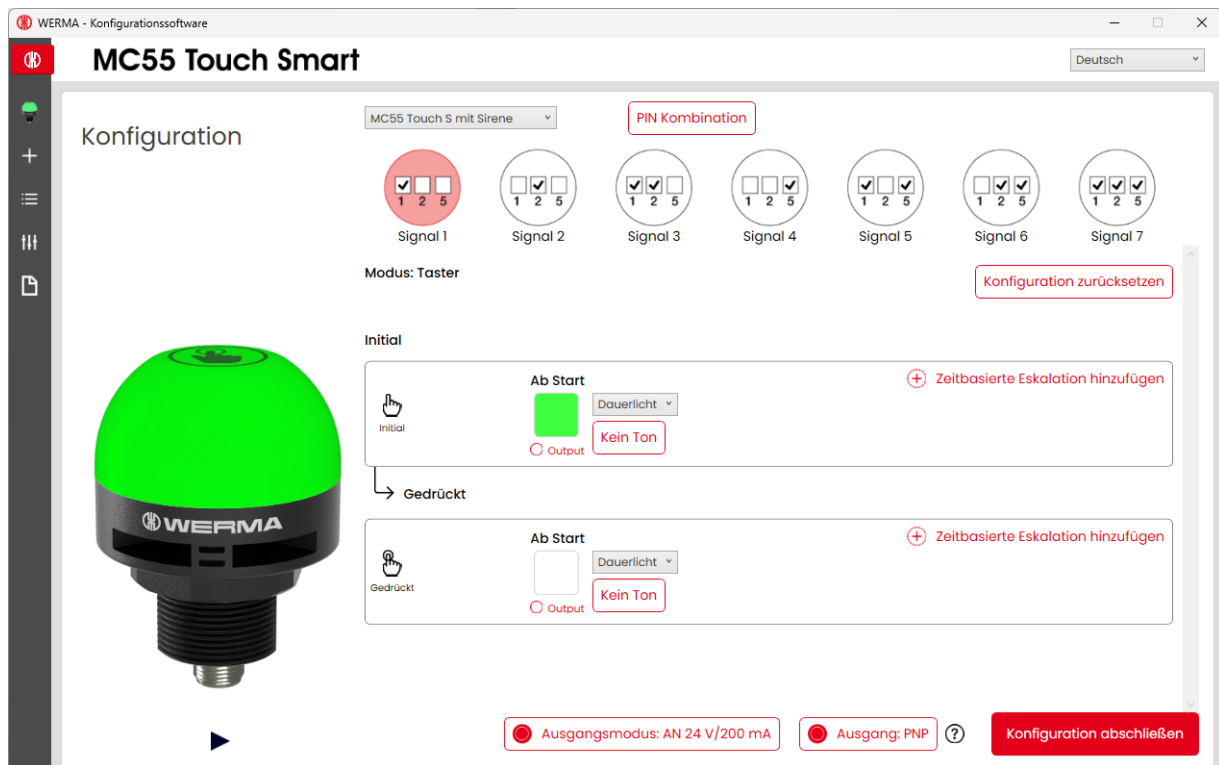
Speichern

2. In der Spalte **Kurzname** die gewünschte Bezeichnung eingeben.
3. In der Spalte **Beschreibung** die Beschreibung des Signals eingeben.
4. Auf **Speichern** klicken.

5.5.2 Modus ändern

Für jeden Signaleingang kann nachträglich zwischen dem Modus **Taster** und Modus **Schalter** gewählt werden.

5.5.2.1 Modus Taster

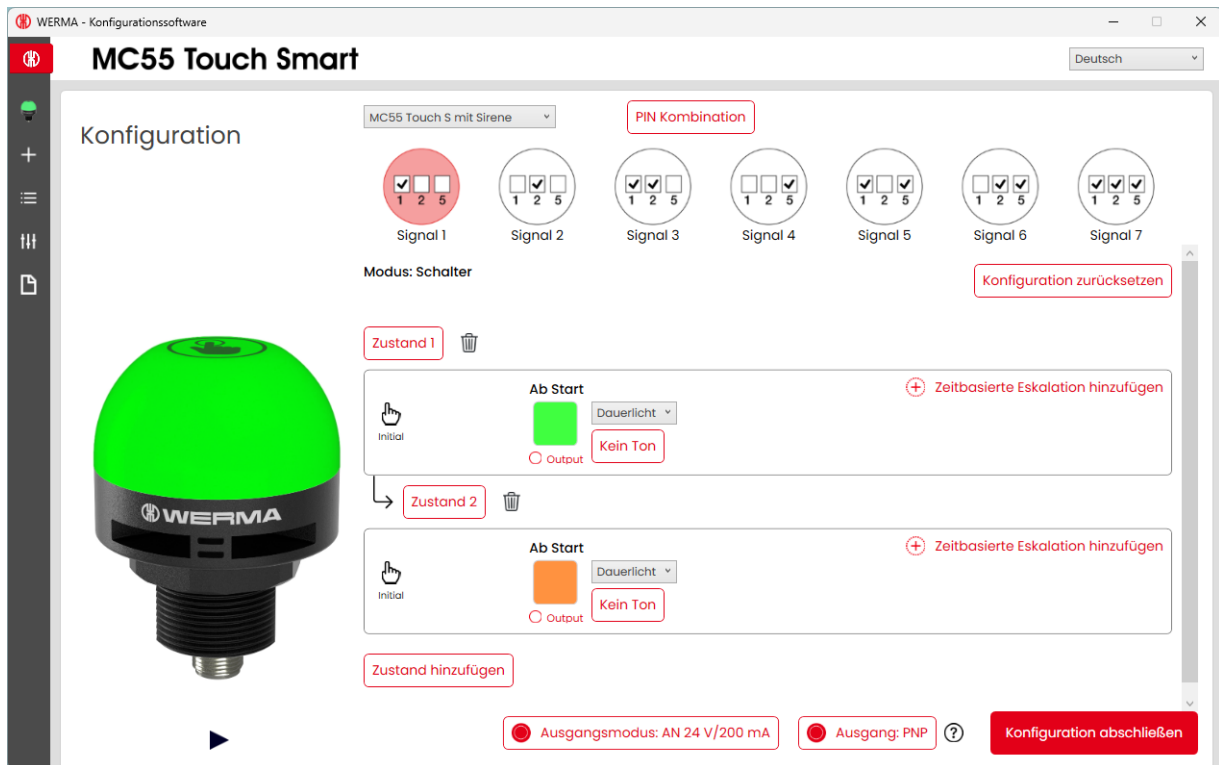


Im Modus **Taster** können 2 Zustände konfiguriert werden.

- Initial: Ist aktiv, wenn beim entsprechenden Signaleingang Strom anliegt und der MC55 Touch Smart nicht gedrückt wird.
- Gedrückt: Ist aktiv, wenn MC55 Touch Smart gedrückt und gedrückt gehalten wird.
- Sobald der MC55 Touch Smart nicht mehr gedrückt wird, ist wieder der Zustand Initial aktiv.

Für jeden Zustand können die Einstellungen für die Farbe, das Leuchtbild, die Sirene (falls vorhanden), die zeitbasierte Eskalation und der Ausgang angepasst werden.

5.5.2.2 Modus Schalter



Im Modus **Schalter** können max. 10 Zustände konfiguriert werden. Nach jedem Druck auf den MC55 Touch Smart wird der nächste Zustand aktiviert.

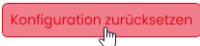
Im Modus **Schalter** leuchtet der MC55 Touch Smart beim Wechsel zwischen den Zuständen kurz weiß, um ein Feedback für die Erkennung des Touch Inputs zu geben.

Für jeden Zustand können die Einstellungen für die Farbe, das Leuchtbild, die Sirene (falls vorhanden), die zeitbasierte Eskalation und der Ausgang angepasst werden.

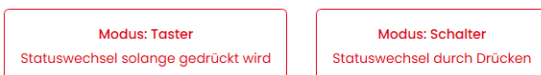


Der MC55 Touch Smart wird standardmäßig im Schaltermodus ausgeliefert. Bei Aktivierung des Touch-Inputs werden am Ausgang 24 V geschaltet.

1. Im gewünschten Signaleingang auf **Konfiguration zurücksetzen** klicken.



2. **Modus: Taster** oder **Modus: Schalter** wählen.

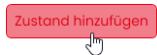


5.5.3 Zustände anpassen

Zustände können ausschließlich im Modus **Schalter** hinzugefügt, gelöscht oder umbenannt werden. Im Modus **Taster** sind die beiden möglichen Zustände vorgegeben.

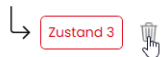
5.5.3.1 Zustand hinzufügen

1. Auf **Zustand hinzufügen** klicken.



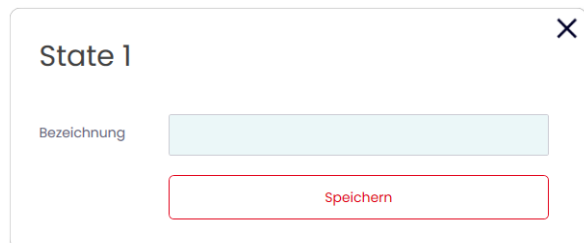
5.5.3.2 Zustand entfernen

1. Neben dem zu entfernenden Zustand (z. B. **State 3**) auf  klicken.

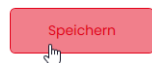


5.5.3.3 Zustand umbenennen

1. Auf den Zustand (z. B. **State 1**) klicken.
→ Das Fenster **State 1** erscheint.



2. Im Feld **Bezeichnung** die gewünschte Bezeichnung des Zustands eingeben.
3. Auf **Speichern** klicken.



5.5.4 Farbe wählen

Jeder Stufe kann eine vorgegebene Standardfarbe oder eine individuelle Farbe zugewiesen werden.

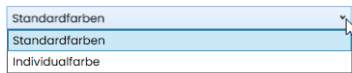
1. In der Spalte **Farbe** auf das Farbfeld klicken.



→ Das Fenster **Farbe auswählen** erscheint.



2. Wählen, ob eine Standardfarbe oder eine individuelle Farbe verwendet werden soll.



5.5.4.1 Standardfarbe

3. Auf das gewünschte Farbfeld klicken.

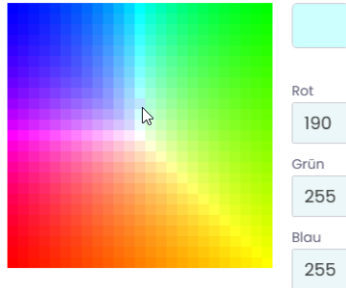


Folgende 8 Standardfarben stehen zur Verfügung:

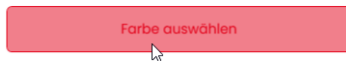
- rot
- gelb
- grün
- weiß
- blau
- hellgelb
- magenta
- türkis

5.5.4.2 Individualfarbe

4. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.

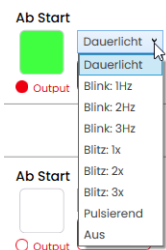


5. Auf **Farbe auswählen** klicken.



5.5.5 Leuchteffekt wählen

1. Neben dem Farbfeld auf das Auswahlmeneü klicken und den gewünschten Leuchteffekt wählen.



Folgenden 8 Leuchteffekte stehen zur Verfügung:

- Dauerlicht
- Blink 1Hz
- Blink 2Hz
- Blink 3Hz
- Blitz 1x
- Blitz 2x
- Blitz 3x
- Pulsierend
- Aus

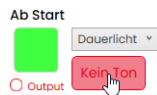


Die Einstellung **Aus** kann gewählt werden, falls die Pin-Belegung nur für Ton oder für Dauerstromversorgung verwendet werden soll.

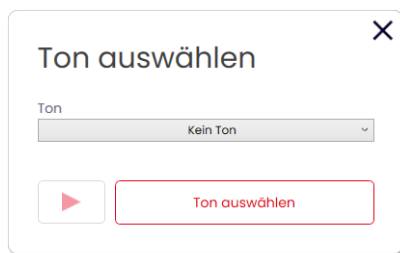
5.5.6 Sirene wählen

Falls der angeschlossene oder gewählte MC55 Touch Smart eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung des Zustands ertönt.

1. Im gewünschten Zustand auf **Kein Ton** klicken.

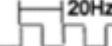
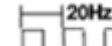
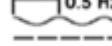
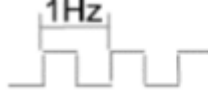


→ Das Fenster **Ton auswählen** erscheint.



2. Den gewünschten **Ton** wählen.

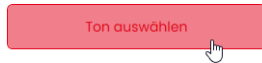
Folgende 10 Tonarten stehen zur Verfügung:

Ton	Frequenz	Beschreibung	Max. dB (A)
1	 3.8 kHz	Dauerton	86
2	 0.9 kHz	Dauerton	70
3	 2.1 kHz	Pulston	67
4	 0.9 kHz	Pulston	68
5	 2.65 kHz	Pulston	66
6	 0.9 kHz	Pulston	70
7	 3.8 kHz	Pulston	87
8	 2.3 kHz - 3.6 kHz	Wobbelton	89
9	 2.65 kHz	Dauerton	67
10	 1.2 kHz - 0.8 kHz	Wechselton	78



Der gewählte Ton kann über die Schaltfläche ► in der Tonauswahl getestet werden. Der Ton wird dabei über den Computer abgespielt.

3. Auf **Ton auswählen** klicken.



5.5.7 Zeitbasierte Eskalation anpassen

Für jeden Zustand im Modus **Schalter** oder im Modus **Taster** können maximal zwei zeitbasierte Eskalationen konfiguriert werden.

Sobald eine zeitbasierte Eskalation konfiguriert wurde, wird nach Ablauf der eingestellten Zeit die nächste Eskalation aktiviert.

Für jede Eskalation können die Zeit, das Leuchtbild, die Farbe, die Sirene (falls vorhanden) und der Ausgang konfiguriert werden.

5.5.7.1 Zeitbasierte Eskalation hinzufügen

1. Auf **Zeitbasierte Eskalation hinzufügen** klicken.

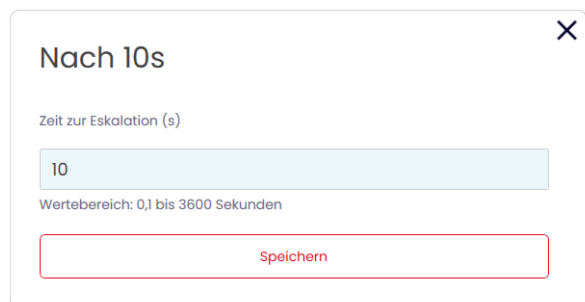


→ Eine Eskalationsstufe wurde hinzugefügt.



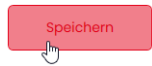
2. Auf **Nach 10s** klicken.

→ Das Fenster **Nach 10s** erscheint.



3. Im Feld **Zeit zur Eskalation (s)** eingeben, nach wie vielen Sekunden die Eskalationsstufe starten soll.

4. Auf **Speichern** klicken.



5. Weitere Eigenschaften (Farbe, Leuchtbild, Ausgang, Ton) der Eskalationsstufe wie gewünscht anpassen.
6. Bei Bedarf durch Klicken auf  eine weitere Eskalationsstufe hinzufügen.

5.5.7.2 Zeitbasierte Eskalation entfernen

Bei Bedarf kann die jeweils letzte Eskalationsstufe entfernt werden.

1. In der letzten Eskalationsstufe auf **Entfernen** klicken.



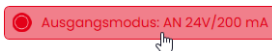
5.5.8 Ausgang aktivieren

Für jeden Zustand und jede einzelne Eskalationsstufe kann der digitale 24V-Ausgang des MC55 Touch Smart aktiviert werden.

1. Im gewünschten Zustand oder der gewünschten Eskalationsstufe die Option **Output** aktivieren.

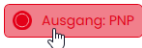


2. Bei Bedarf zwischen **Ausgangsmodus: AN 24 V/200 mA** und **Ausgangsmodus: PULS 24 V/200 mA** umschalten.



Im Modus **Puls** wird ein Puls von min. 100 ms am Ausgang angelegt.

3. Bei Bedarf zwischen **Ausgang: PNP** und **Ausgang: NPN** umschalten.

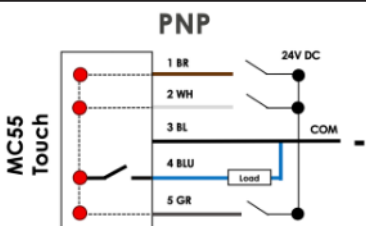
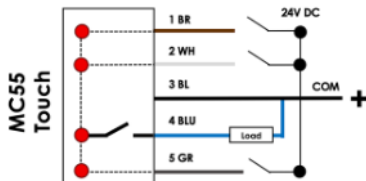


Hinweis

Beschädigung des MC55 Touch Smart

Der MC55 Touch Smart kann beschädigt werden, wenn der Ausgang falsch konfiguriert wird.

1. Sicherstellen, dass der Ausgang des MC55 Touch Smart passend zum angeschlossenen Gerät oder zur angeschlossenen Maschine konfiguriert ist.

Schaltung	Beschreibung	
PNP		– Positiv schaltend – Positive Last wird auf den Ausgang geschaltet.
NPN		– Negativ schaltend – Negative Last ist mit dem Ausgang verbunden.

5.5.9 Ansteuerung simulieren

Nachdem alle Einstellungen vorgenommen wurden, kann die Ansteuerung simuliert werden.

Die Simulation stellt die Leuchteffekte, zeitbasierten Eskalationen, den Output sowie durch ein Symbol die Tonausgabe dar.

1. Unter dem Bild des MC55 Touch Smart auf ► klicken.
→ Das Bild des MC55 Touch Smart zeigt den Initialzustand und, falls konfiguriert, nach Ablauf der entsprechenden Zeit die Eskalationsstufen.
2. Auf **Touch Button** klicken, um Drücken des MC55 Touch Smart zu simulieren.
3. Das Bild des MC55 Touch Smart zeigt das konfigurierte Verhalten.
4. Unter dem Bild des MC55 Touch Smart auf ■ klicken, um die Simulation zu stoppen.

5.5.10 Konfiguration abschließen

1. Bei Bedarf weitere Änderungen an der Konfiguration vornehmen.
2. Sobald alle Stufen wie gewünscht konfiguriert sind, auf **Abschließen** klicken.
→ Das Fenster **Abschließen** erscheint.



3. Auf **Speichern** klicken, um die Konfiguration in einer Konfigurationsdatei zu speichern.
4. Auf **Auf Gerät übertragen** klicken, um die Konfiguration auf den angeschlossenen MC55 Touch Smart zu übertragen.
5. Auf **Aktive Konfiguration als PDF anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration anzuzeigen.
6. Auf **Aktive Konfiguration als PDF speichern** klicken, um die Übersicht der aktuellen Konfiguration als PDF-Datei zu speichern.

5.6 Konfiguration aus Beispielvorlagen übernehmen

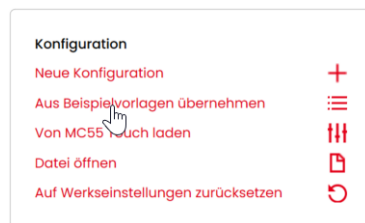
Die WERMA - Konfigurationssoftware stellt verschiedene vordefinierte Konfigurationen bereit, die direkt auf einen angeschlossenen MC55 Touch Smart übertragen oder als Grundlage für eigene Konfigurationen verwendet werden können.

Folgende Vorlagen stehen zur Verfügung:

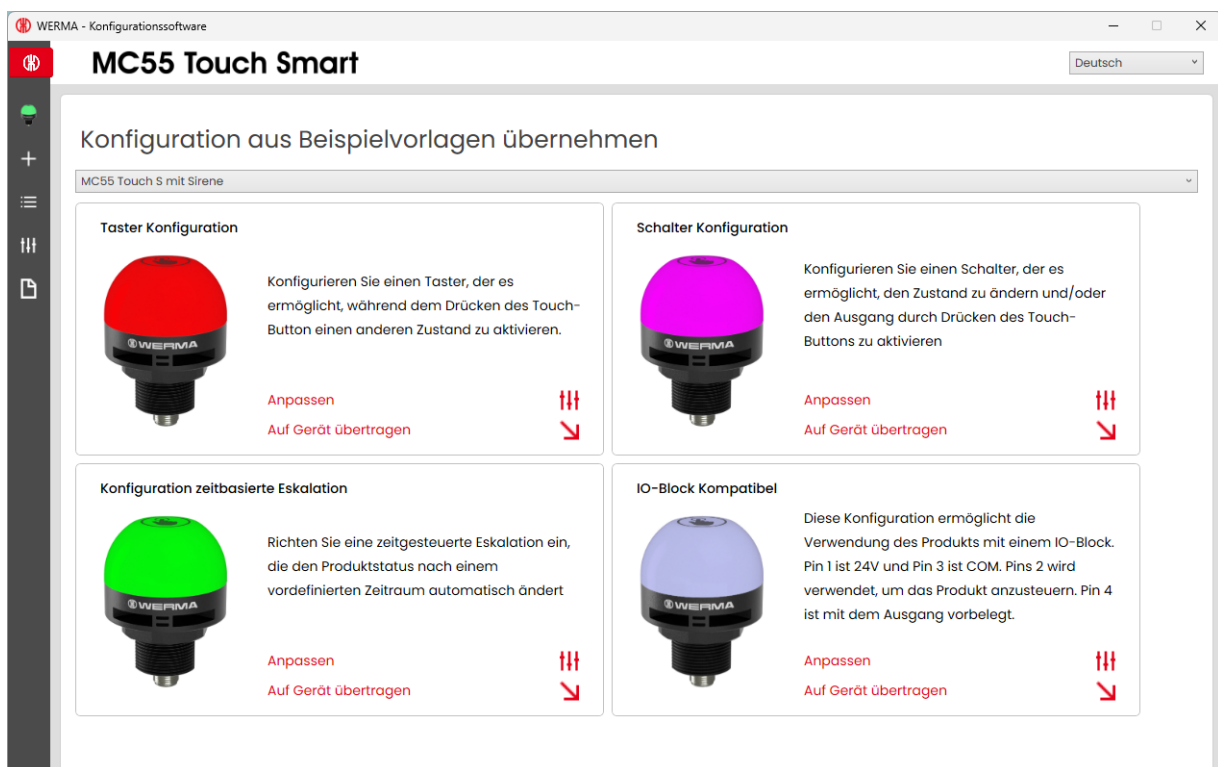
Vorlage	Beschreibung
Taster Konfiguration	– MC55 Touch Smart wird als Taster konfiguriert. – Solange der MC55 Touch Smart gedrückt gehalten wird, werden ein anderer Zustand und der Output im Modus „An“ aktiviert. – Für jeden Signaleingang wird eine andere Farbe verwendet. Mögliche Anwendung: – Weiteres Gerät soll nur während des Drucks auf den MC55 Touch Smart aktiviert werden.
Schalter Konfiguration	– MC55 Touch Smart wird als Schalter konfiguriert. – Beim Druck auf den MC55 Touch Smart werden ein anderer Zustand und der Output im Modus „An“ aktiviert. – Für jeden Signaleingang wird eine andere Farbe verwendet. – Maximal 10 Zustände können für jeden Signaleingang angelegt werden. Mögliche Anwendung: – Feedback mithilfe des Puls-Ausgangs an eine Steuerung geben und dabei den Zustand des MC55 Touch Smart wechseln oder ein weiteres Gerät schalten/ausschalten.
Konfiguration zeit-basierte Eskalation	– MC55 Touch Smart wird als Taster konfiguriert. – Nach 60 Sekunden blinkt der MC55 Touch Smart rot und der Output wird im Modus "An" aktiviert. – Maximal 2 zeitliche Eskalationen pro Zustand können konfiguriert werden. Mögliche Anwendung: – Wenn nach einer gewisser Zeit ein Fehler nicht quittiert wird, kann eine Tonausgabe dazu geschaltet werden und durch Drücken des MC55 Touch Smart wieder quittiert werden. – Zeitkritische Arbeitsschritte über die Veränderung des Leuchtbilds visualisieren.

Vorlage	Beschreibung
IO-Block Kompatibel	– MC55 Touch Smart wird als Schalter konfiguriert. Mögliche Anwendung: – IO-Block – Signaleingang 1 ist 24 V. – Signaleingang 3 ist COM. – Signaleingänge 2 und 4 zeigen unterschiedliche Farben an.

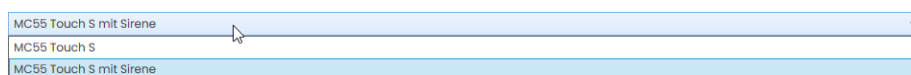
1. Im Bereich **Konfiguration** auf **Aus Beispielvorlagen übernehmen** klicken.



→ Das Fenster **Konfiguration aus Beispielvorlagen übernehmen** erscheint.



2. Variante des MC55 Touch Smart wählen.



3. In der gewünschten Vorlage auf **Anpassen** klicken, um die Vorlage zu laden und weiter zu bearbeiten.
4. Auf **Auf Gerät übertragen** klicken, um die Vorlage zu laden und direkt auf den angeschlossenen MC55 Touch Smart zu übertragen.

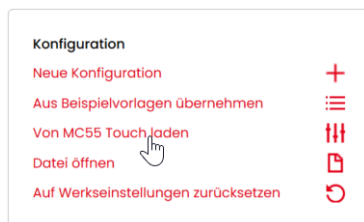


Für weitere Informationen zur Konfiguration, siehe "Neue Konfiguration erstellen", S. 70.

5.7 Konfiguration vom angeschlossenen MC55 Touch Smart laden

Falls ein MC55 Touch Smart am Computer angeschlossen ist, bietet die WERMA - Konfigurationssoftware die Möglichkeit, die aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung zu öffnen. Falls kein MC55 Touch Smart angeschlossen ist, ist dieser Menüpunkt verblasst.

1. Im Bereich **Konfiguration** auf **Von MC55 Touch laden** klicken.



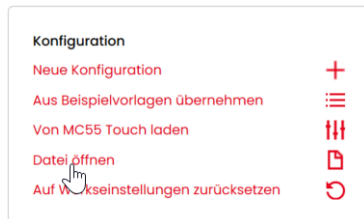
→ Das Fenster **Konfiguration** erscheint im eingestellten Modus und ist bereits mit der aktuellen Konfiguration befüllt.



Für weitere Informationen zur Konfiguration, siehe "Neue Konfiguration erstellen", S. 70.

5.8 Konfiguration aus Datei öffnen

1. Im Bereich **Konfiguration** auf **Datei öffnen** klicken.



2. Gewünschte Konfigurationsdatei wählen und auf **Öffnen** klicken.

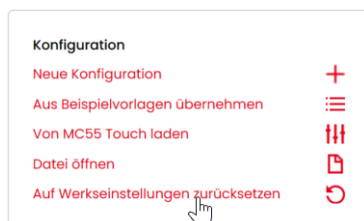


Alternativ können über das Seitenmenü die zuletzt verwendeten Konfigurationen angezeigt werden (siehe "Überblick", S. 68).

5.9 Auf Werkseinstellungen zurückeinsetzen

Bei Bedarf kann der MC55 Touch Smart auf die Werkseinstellungen zurückgesetzt werden.

1. Auf **Auf Werkseinstellungen zurücksetzen** klicken.



→ Der MC55 Touch Smart wird auf die Werkseinstellungen zurückgesetzt.

5.10 Firmware aktualisieren

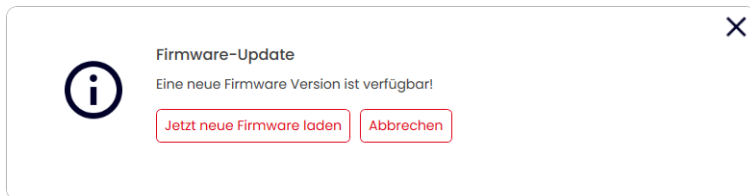


Um eine Firmware-Aktualisierung durchführen zu können, muss der Computer mit dem Internet verbunden und ein MC55 Touch Smart angeschlossen sein.

1. Im Bereich **Firmware** auf **Auf neue Firmware prüfen** klicken.



- Die WERMA - Konfigurationssoftware sucht nach Firmware-Aktualisierungen für den angeschlossenen MC55 Touch Smart.
- Falls eine Aktualisierung gefunden wurde, erscheint eine entsprechende Meldung.



2. Auf **Jetzt neue Firmware laden** klicken.

- Die neue Firmware wird auf den angeschlossenen MC55 Touch Smart übertragen.

6 MC55 Smart und MC55 High Smart konfigurieren



Die Konfiguration der Varianten MC55 Smart und MC55 High Smart erfolgt auf die gleiche Art und Weise. Im Folgenden wird die Konfiguration am Beispiel der Variante MC55 Smart beschrieben.

6.1 Funktion

Die MC55 Smart bietet klare, gut erkennbare LED-Signale in einem kompakten Gehäuse. Sie lässt sich einfach integrieren und eignet sich für vielfältige Anwendungen, in denen eine zuverlässige Statusanzeige gefragt ist.

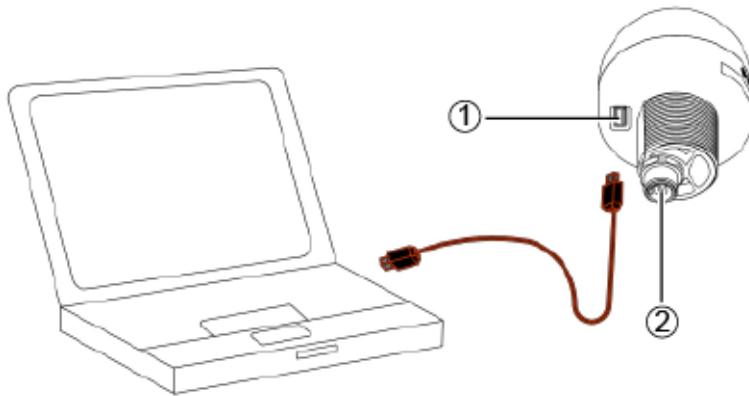
Der Pin 4 der MC55 Smart kann sowohl als Eingang als auch Ausgang verwendet werden. Standardmäßig ist PIN 4 als Eingang konfiguriert. Dadurch besteht die Möglichkeit, kleine Logik-Funktionalitäten mit der MC55 Smart abzubilden.

6.2 Hardware-Beschreibung

Die Informationen zur Hardware gelten für folgende Artikelnummern:

- 240.520.00 Smart
- 240.520.01 Smart + Akustik
- 240.620.00 MC55 High S Leuchte 24V RM
- 240.620.01 MC55 High S Leuchte + Akustik 24V RM

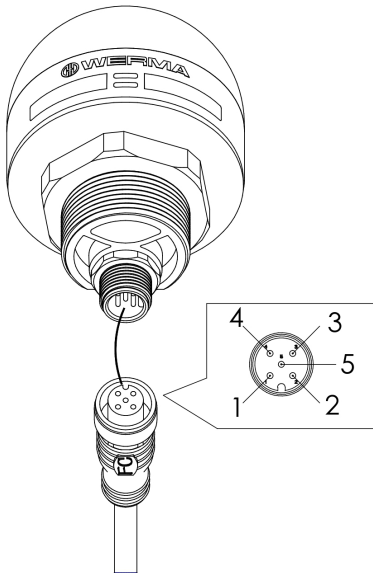
6.2.1 Übersicht Anschlussbereich



Pos.	Beschreibung
1	USB-C-Anschluss
2	M12-Stecker 5-polig

6.2.2 Übersicht M12-Stecker 5-polig

Der Anschluss des MC55 Smart erfolgt über einen 5-poligen M12-Stecker mit folgender Belegung:



M12 Pinbelegung	Litzenfarbe M12-Kabel	Funktion
1	braun	Signal 1
2	weiß	Signal 2
3	blau	COM
4	schwarz	Eingang oder Ausgang 24 V; 200 mA
5	grau	Signal 3

6.3 Überblick



Pos.	Beschreibung
1	Variante des angeschlossenen MC55 Smart
2	Bereich Konfiguration
3	Bereich Geräteinformation
4	Sprache einstellen
5	Bereich Support
6	Bereich Diese Software
7	Bereich Firmware
8	Konfiguration aus Datei öffnen
9	Bestehende Konfiguration bearbeiten
10	Konfiguration aus Beispielvorlagen übernehmen
11	Neue Konfiguration erstellen
12	Startbildschirm aufrufen
13	Geräteauswahl eSIGN, MC55 Touch Smart, MC55 High Smart, MC55 Smart

6.3.1 Bereich Konfiguration

Im Bereich **Konfiguration** gibt es folgende Möglichkeiten, eine Konfiguration vorzunehmen:

- **Neue Konfiguration:** Eine neue Konfiguration erstellen (siehe "Neue Konfiguration erstellen", S. 92).
- **Aus Beispielvorlagen übernehmen:** Standard-Vorlagen öffnen, die sofort auf das Gerät überspielt werden können (siehe "Konfiguration aus Beispielvorlagen übernehmen", S. 102).
- **Von MC55 Smart laden:** Aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung öffnen (siehe "Konfiguration vom angeschlossenen MC55 Smart laden", S. 103).
- **Datei öffnen:** Eine bestehende Konfiguration öffnen und wiederverwenden (siehe "Konfiguration aus Datei öffnen", S. 104).
- **Auf Werkseinstellungen zurücksetzen:** Angeschlossene MC55 Smart auf Werkseinstellungen zurücksetzen (siehe "Auf Werkseinstellungen zurückeinsetzen", S. 104).

6.3.2 Bereich Geräteinformation

Im Bereich **Geräteinformation** können das Handbuch und rechtliche Hinweise aufgerufen werden.

6.3.3 Bereich Support

Im Bereich **Support** werden die Kontaktinformationen des WERMA-Supports angezeigt.

6.3.4 Bereich Diese Software

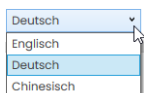
Im Bereich **Diese Software** wird der Versionsstand der WERMA - Konfigurationssoftware angezeigt und eine Möglichkeit zur Aktualisierung der Konfigurationssoftware angeboten.

6.3.5 Bereich Firmware

Im Bereich **Firmware** werden Informationen zur Firmware des angeschlossenen MC55 Smart angezeigt und eine Möglichkeit zur Aktualisierung der Firmware angeboten.

6.4 Sprache einstellen

1. Im Auswahlménü die gewünschte Sprache wählen.



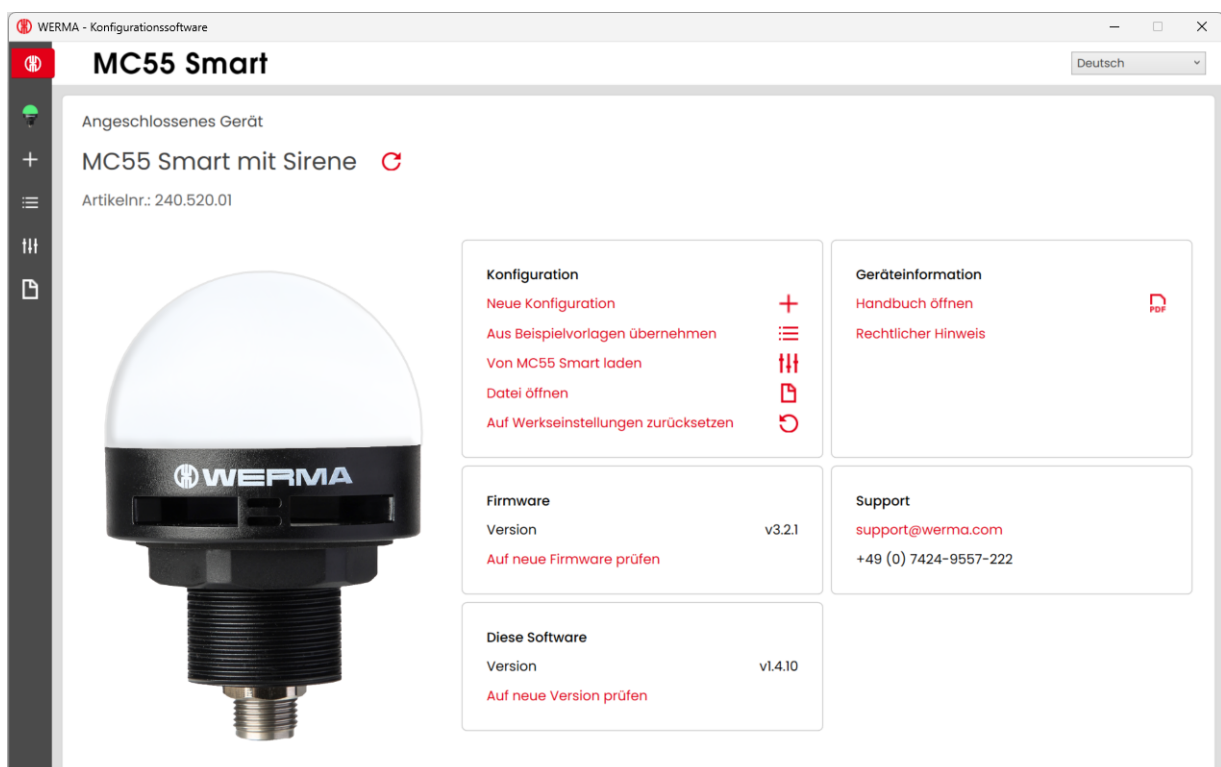
6.5 Neue Konfiguration erstellen

 Die Konfiguration kann mit oder ohne angeschlossenen MC55 Smart durchgeführt werden.

 Der MC55 Smart kann gleichzeitig per USB-Kabel mit einem Computer und mit der 24-V-Stromversorgung über das M12-Kabel verbunden werden.

1. MC55 Smart per USB-Kabel an Computer anschließen.

→ Die WERMA - Konfigurationssoftware erkennt den angeschlossenen MC55 Smart.



2. Falls die WERMA - Konfigurationssoftware den angeschlossenen MC55 Smart nicht erkennt: Auf **Angeschlossenes Gerät aktualisieren** klicken.

kein Gerät verbunden 

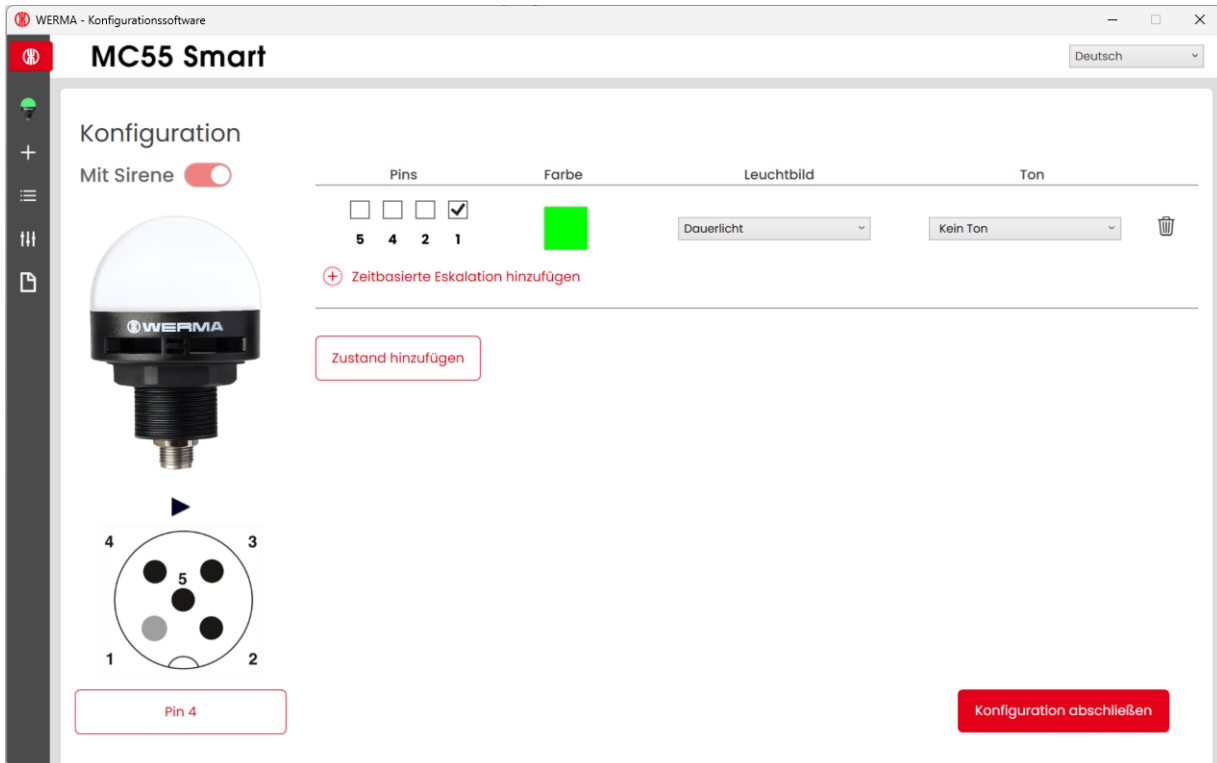
6 MC55 Smart und MC55 High Smart konfigurieren

3. Im Bereich **Konfiguration** auf **Neue Konfiguration** klicken.

DE



→ Der Bildschirm **Konfiguration** erscheint.



6.5.1 Farbe wählen

Jedem Zustand kann eine vorgegebene Standardfarbe oder eine individuelle Farbe zugewiesen werden.

1. In der Spalte **Farbe** auf das Farbfeld klicken.

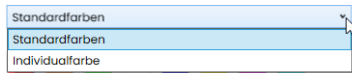
Farbe



→ Das Fenster **Farbe auswählen** erscheint.



2. Wählen, ob eine Standardfarbe oder eine individuelle Farbe verwendet werden soll.



6.5.1.1 Standardfarbe

3. Auf das gewünschte Farbfeld klicken.

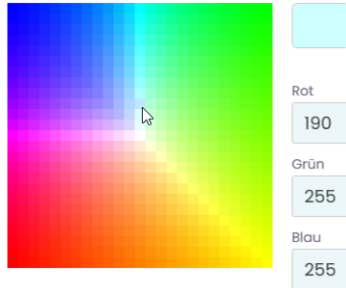


Folgende 8 Standardfarben stehen zur Verfügung:

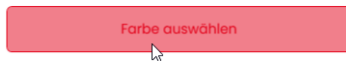
- rot
- gelb
- grün
- weiß
- blau
- hellgelb
- magenta
- türkis

6.5.1.2 Individualfarbe

4. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.

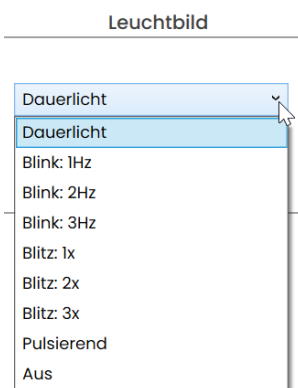


5. Auf **Farbe auswählen** klicken.



6.5.2 Leuchtbild wählen

1. Neben dem Farbfeld auf das Auswahlmeneü klicken und den gewünschten Leuchteffekt wählen.



Folgenden 8 Leuchteffekte stehen zur Verfügung:

- Dauerlicht
- Blink 1Hz
- Blink 2Hz
- Blink 3Hz
- Blitz 1x
- Blitz 2x
- Blitz 3x
- Pulsierend
- Aus



Die Einstellung **Aus** kann gewählt werden, falls die Pin-Belegung nur für Ton oder für Dauerstromversorgung verwendet werden soll.

6.5.3 Sirene wählen

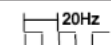
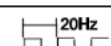
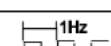
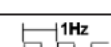
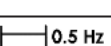
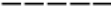
Falls der angeschlossene oder gewählte MC55 Smart eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung des Zustands ertönt.

1. Option **Mit Sirene** aktivieren.

Mit Sirene 

2. In der Spalte **Ton** auf das Auswahlmenü klicken und den gewünschten Ton wählen.

Folgende 10 Tonarten stehen zur Verfügung:

Ton	Frequenz	Beschreibung	Max. dB (A)
1	 2.7 kHz	Dauerton	86
2	 0.9 kHz	Dauerton	70
3	 2.1 kHz	Pulston	67
4	 0.9 kHz	Pulston	68
5	 3.5 kHz	Pulston	66
6	 0.9 kHz	Pulston	70
7	 2.7 kHz	Pulston	87
8	 2.3 kHz – 3.6 kHz	Wobbelton	89
9	 3.5 kHz	Dauerton	67
10	 1.2 kHz – 0.8 kHz	Wechselton	78

6.5.4 Zeitbasierte Eskalation anpassen

Für jeden Zustand können maximal zwei zeitbasierte Eskalationen konfiguriert werden.

Sobald eine zeitbasierte Eskalation konfiguriert wurde, wird nach Ablauf der eingestellten Zeit die nächste Eskalation aktiviert.

Für jede Eskalation können die Zeit, das Leuchtbild, die Farbe, die Sirene (falls vorhanden) und der Ausgang konfiguriert werden.

6.5.4.1 Zeitbasierte Eskalation hinzufügen

1. Auf **Zeitbasierte Eskalation hinzufügen** klicken.

 Zeitbasierte Eskalation hinzufügen

→ Eine Eskalationsstufe wurde hinzugefügt.

Dauerlicht ▾

Kein Ton ▾

☐


 Zeitbasierte Eskalation hinzufügen

2. In das Feld **00:00** klicken und die Dauer der Eskalationsstufe eingeben.
3. Weitere Eigenschaften (Farbe, Leuchtbild, Ausgang, Ton) der Eskalationsstufe wie gewünscht anpassen.



Die maximale Dauer einer Eskalationsstufe beträgt 60 Minuten.

6.5.4.2 Zeitbasierte Eskalation entfernen

Bei Bedarf kann die jeweils letzte Eskalationsstufe entfernt werden.

1. In der letzten Eskalationsstufe auf **Entfernen** klicken.



6.5.5 Zustand hinzufügen

1. Auf **Zustand hinzufügen** klicken.

 Zustand hinzufügen

6.5.6 Zustand entfernen

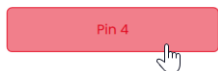
1. Neben dem zu entfernenden Zustand auf **Entfernen** klicken.



6.5.7 Ausgang aktivieren

Für jeden Zustand und jede einzelne Eskalationsstufe kann der digitale 24V-Ausgang (Pin 4) des MC55 Smart aktiviert werden. Standardmäßig ist Pin 4 als Eingang konfiguriert.

1. Auf **Pin 4** klicken.



→ Der Bildschirm **Konfiguration Pin 4** erscheint.

2. Die Option **Ist Ausgang** aktivieren.
3. **Modus** und **Ausgangsbeschaltung** wählen.



Im Modus **Puls** wird ein Puls von min. 100 ms am Ausgang angelegt.

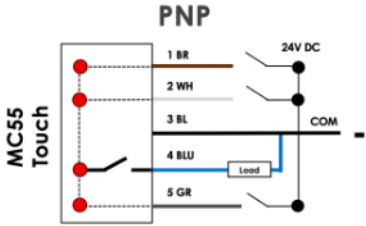
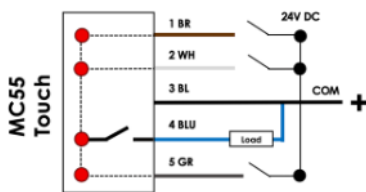


Hinweis

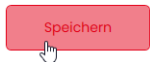
Beschädigung des MC55 Smart oder MC55 High Smart

Der MC55 Smart oder MC55 High Smart kann beschädigt werden, wenn der Ausgang falsch konfiguriert wird.

1. Sicherstellen, dass der Ausgang des MC55 Smart oder MC55 High Smart passend zum angeschlossenen Gerät oder zur angeschlossenen Maschine konfiguriert ist.

Schaltung	Beschreibung	
PNP		– Positiv schaltend – Positive Last wird auf den Ausgang geschaltet.
NPN		– Negativ schaltend – Negative Last ist mit dem Ausgang verbunden.

2. Auf **Speichern** klicken.



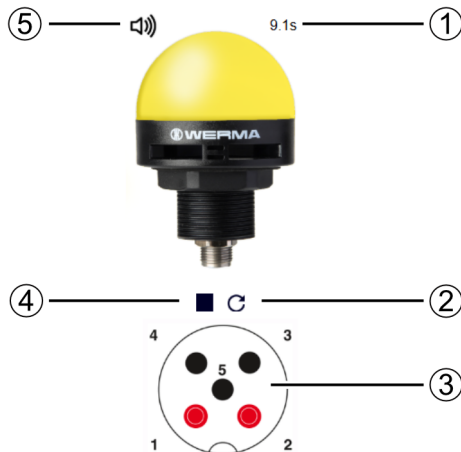
3. Im gewünschten Zustand oder der gewünschten Eskalationsstufe die Option **Ausgang** aktivieren.

Pins	Farbe	Leuchtbild	Ton	Ausgang
☐ 5 ☐ 2 ☒ 1		Dauerlicht	Kein Ton	☒ 
 Zeitbasierte Eskalation hinzufügen				

6.5.8 Ansteuerung simulieren

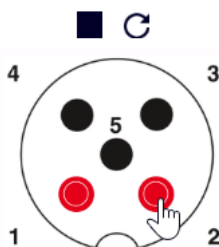
Nachdem alle Einstellungen vorgenommen wurden, kann die Ansteuerung simuliert werden.

Die Simulation zeigt die Leuchteffekte, zeitbasierte Eskalationen und das Verhalten des Ausgangs (Pin 4). Signaltöne werden nicht abgespielt, sondern durch ein Symbol dargestellt.



Pos.	Beschreibung
1	Abgelaufene Zeit einer zeitbasierten Eskalation
2	Zeitbasierte Eskalation neu starten
3	Pins des M12-Steckers
4	▶ Simulation starten ■ Simulation beenden
5	🔊 Es wird kein Signalton ausgegeben 🔊 Signalton wird ausgegeben

- Unter dem Bild des MC55 Smart auf ▶ klicken.
→ Das Bild des MC55 Smart zeigt den Initialzustand und, falls konfiguriert, nach Ablauf der entsprechenden Zeit die zeitbasierten Eskalationen.
- Auf einen der Pins oder auf mehrere Pins in der Abbildung des M12-Steckers klicken.



- Die Simulation zeigt das konfigurierte Verhalten des MC55 Smart bei Anlegen eines Signals an den markierten Pins.
- Falls konfiguriert, werden nach Ablauf der eingestellten Zeit die zeitbasierten Eskalationen dargestellt.

- Unter dem Bild des MC55 Smart auf ■ klicken, um die Simulation zu stoppen.

6.5.9 Konfiguration abschließen

DE

1. Bei Bedarf weitere Änderungen an der Konfiguration vornehmen.
2. Sobald alle Stufen wie gewünscht konfiguriert sind, auf **Abschließen** klicken.
→ Das Fenster **Abschließen** erscheint.



3. Auf **Speichern** klicken, um die Konfiguration in einer Konfigurationsdatei zu speichern.
4. Auf **Auf Gerät übertragen** klicken, um die Konfiguration auf den angeschlossenen MC55 Smart zu übertragen.
5. Auf **Aktive Konfiguration als PDF anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration anzuzeigen.
6. Auf **Aktive Konfiguration als PDF speichern** klicken, um die Übersicht der aktuellen Konfiguration als PDF-Datei zu speichern.

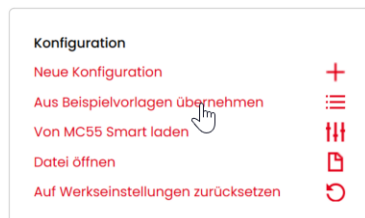
6.6 Konfiguration aus Beispielvorlagen übernehmen

Die WERMA - Konfigurationssoftware stellt verschiedene vordefinierte Konfigurationen bereit, die direkt auf einen angeschlossenen MC55 Smart übertragen oder als Grundlage für eigene Konfigurationen verwendet werden können.

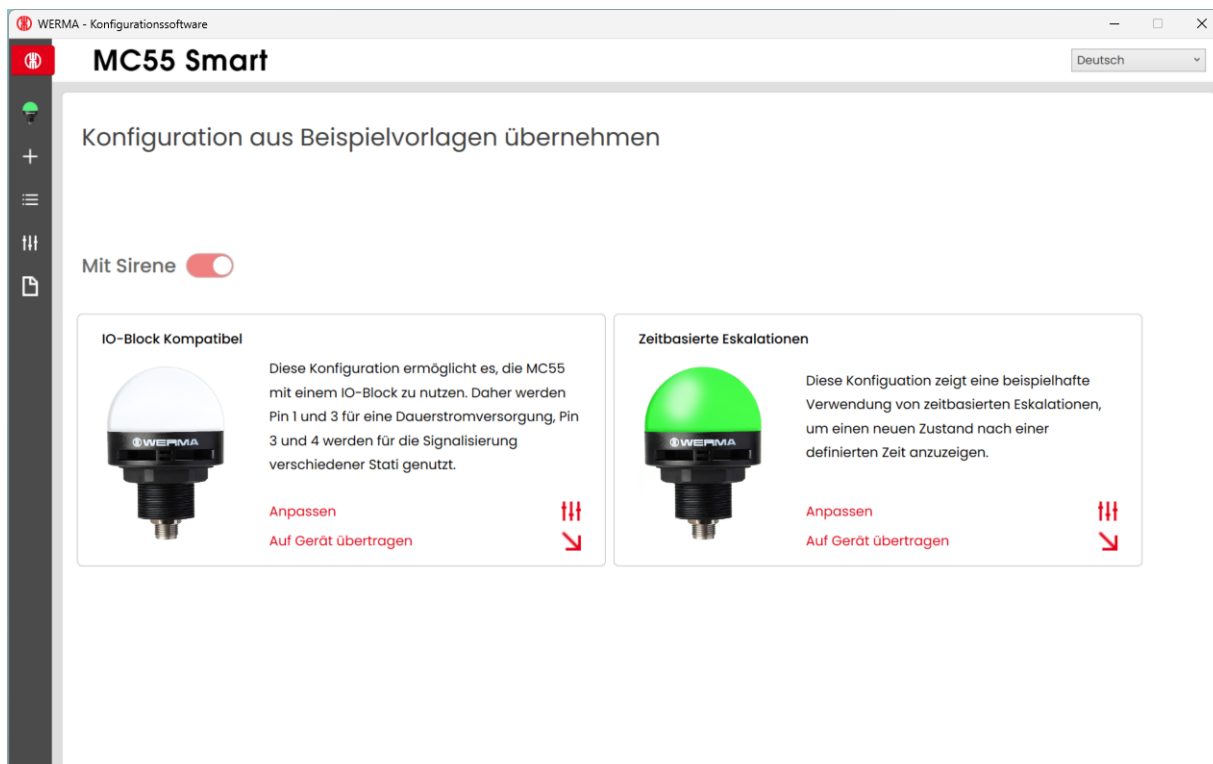
Folgende Vorlagen stehen zur Verfügung:

Vorlage	Beschreibung
IO-Block Kompatibel	Diese Konfiguration ermöglicht es, die MC55 Smart mit einem IO-Block zu nutzen. Daher werden Pin 1 und 3 für eine Dauerstromversorgung genutzt. Pin 2 und 4 werden für die Signalisierung verschiedener Status genutzt.
Zeitbasierte Eskalationen	Diese Konfiguration zeigt eine beispielhafte Verwendung von zeitbasierten Eskalationen, um einen neuen Zustand nach einer definierten Zeit anzuzeigen.

1. Im Bereich **Konfiguration** auf **Aus Beispielvorlagen übernehmen** klicken.



→ Das Fenster **Konfiguration aus Beispielvorlagen übernehmen** erscheint.



2. In der gewünschten Vorlage auf **Anpassen** klicken, um die Vorlage zu laden und weiter zu bearbeiten.
3. Auf **Auf Gerät übertragen** klicken, um die Vorlage zu laden und direkt auf den angeschlossenen MC55 Smart zu übertragen.

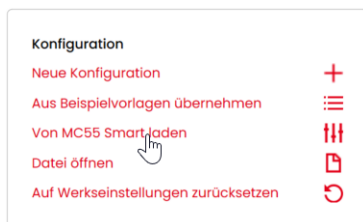


Für weitere Informationen zur Konfiguration, siehe "Neue Konfiguration erstellen", S. 92.

6.7 Konfiguration vom angeschlossenen MC55 Smart laden

Falls ein MC55 Smart am Computer angeschlossen ist, bietet die WERMA - Konfigurationssoftware die Möglichkeit, die aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung zu öffnen. Falls kein MC55 Smart angeschlossen ist, ist dieser Menüpunkt verblasst.

1. Im Bereich **Konfiguration** auf **Von MC55 Smart laden** klicken.



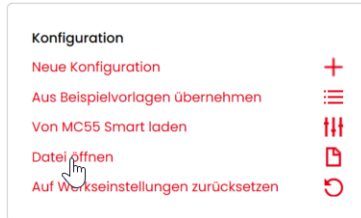
→ Das Fenster **Konfiguration** erscheint im eingestellten Modus und ist bereits mit der aktuellen Konfiguration befüllt.



Für weitere Informationen zur Konfiguration, siehe "Neue Konfiguration erstellen", S. 92.

6.8 Konfiguration aus Datei öffnen

1. Im Bereich **Konfiguration** auf **Datei öffnen** klicken.



2. Gewünschte Konfigurationsdatei wählen und auf **Öffnen** klicken.

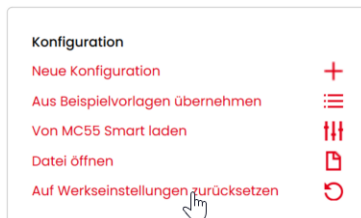


Alternativ können über das Seitenmenü die zuletzt verwendeten Konfigurationen angezeigt werden (siehe "Überblick", S. 90).

6.9 Auf Werkseinstellungen zurückeinsetzen

Bei Bedarf kann der MC55 Smart auf die Werkseinstellungen zurückgesetzt werden.

1. Auf **Auf Werkseinstellungen zurücksetzen** klicken.



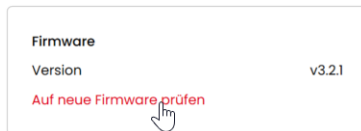
→ Der MC55 Smart wird auf die Werkseinstellungen zurückgesetzt.

6.10 Firmware aktualisieren

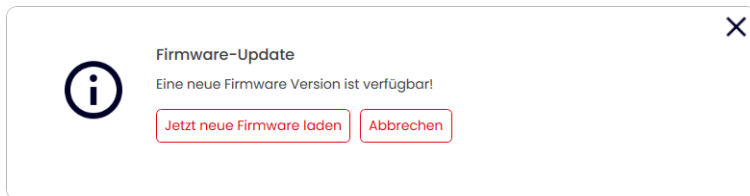


Um eine Firmware-Aktualisierung durchführen zu können, muss der Computer mit dem Internet verbunden und ein MC55 Smart angeschlossen sein.

1. Im Bereich **Firmware** auf **Auf neue Firmware prüfen** klicken.



- Die WERMA - Konfigurationssoftware sucht nach Firmware-Aktualisierungen für den angeschlossenen MC55 Smart.
- Falls eine Aktualisierung gefunden wurde, erscheint eine entsprechende Meldung.



2. Auf **Jetzt neue Firmware laden** klicken.

- Die neue Firmware wird auf den angeschlossenen MC55 Smart übertragen.

7 WERMA - Konfigurationssoftware aktualisieren



Um eine Software-Aktualisierung durchführen zu können, muss der Computer mit dem Internet verbunden sein.

1. Im Bereich **Diese Software** auf **Auf neue Version prüfen** klicken.



- Die WERMA - Konfigurationssoftware sucht nach Software-Aktualisierungen.
- Falls eine Aktualisierung gefunden wurde, erscheint eine entsprechende Meldung.

8 Support



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Manual

WERMA - Configuration Software

Version: 3.1 - 03/2026

310.657.006

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1 Overview

1.1 Function

The WERMA - Configuration Software can be used to configure the following WERMA devices:

- eSIGN signal tower
- MC55 Touch Smart
- MC55 High Smart
- MC55 Smart

 The devices available are market-dependent.

1.2 System requirements

Operating system	Windows 10 x86/x64
	Windows 11
	Up-to-date Windows updates are a compulsory requirement.
USB port	Required for the hardware configuration.

 Supported operating systems are only supported for as long as Microsoft also supports them through the Microsoft Support Lifecycle.

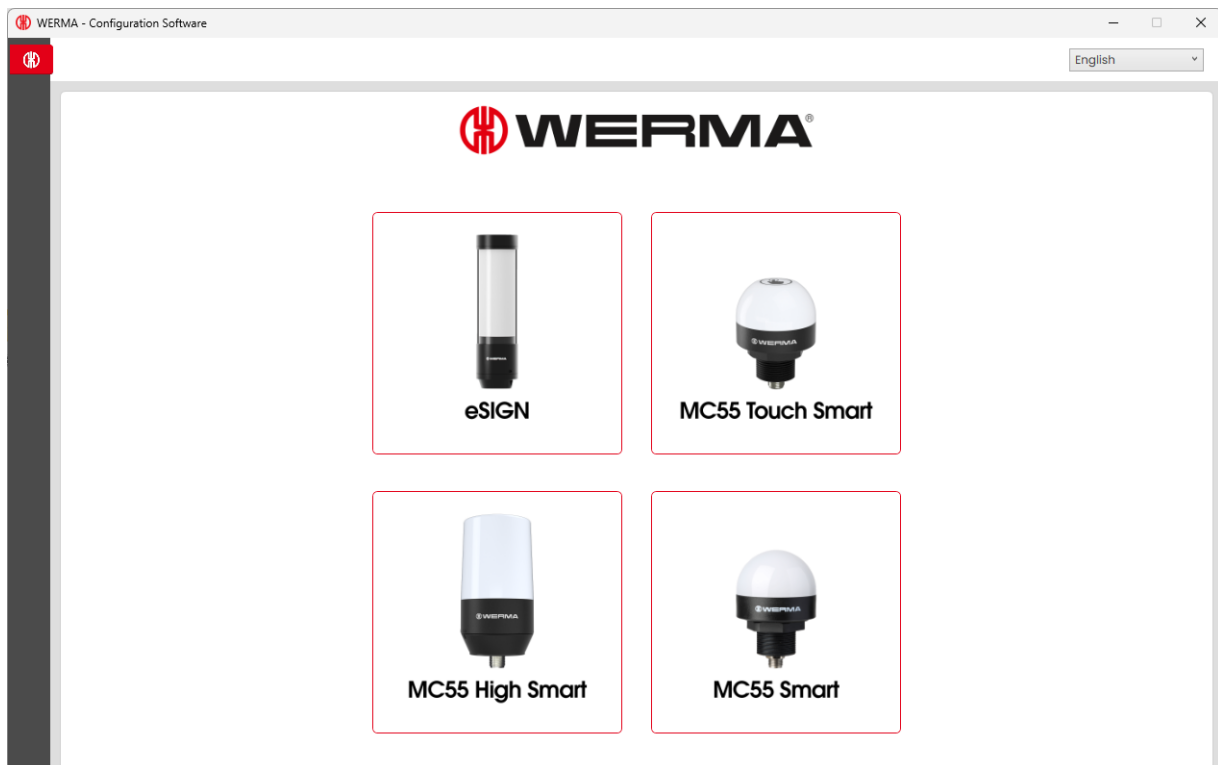
2 Installing the WERMA - Configuration Software

The WERMA - Configuration Software does not need to be installed and runs as a portable version.

1. Download the WERMA - Configuration Software from the following website:
www.werma.com/software.

3 Starting the WERMA - Configuration Software

1. Double-click on Werma-Konfigurator.exe.
→ The WERMA - Configuration Software starts.



2. Select the desired device.

4 Configuring the eSIGN

4.1 Function

The new eSIGN brings new dimensions to light. Electronic modularity enables the product to create a variety of signal modes with various colours, brightness levels and light effects, from the classic signal tower to completely customised settings. The eSIGN can also switch with ease between variable filling level indications or full-surface signalling. In addition to providing you with an overview of your process cycles, this also opens up completely new options.

The WERMA - Configuration Software can be used to configure the individual segments of WERMA eSIGN and to transfer the configuration to the eSIGN.

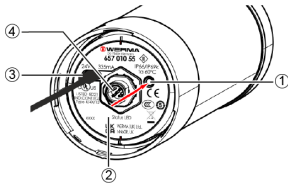
The configuration can be performed with or without connecting an eSIGN. If no eSIGN is connected, the configuration can be saved in a configuration file and later loaded and transferred to a connected eSIGN.

4.2 Hardware description

The hardware information applies to the following part numbers:

- 657.0x0.55 & 657.2x0.55 - 9 segments
- 657.1x0.55 & 657.3x0.55 - 9 segments with a siren
- 657.5x0.55 & 657.7x0.55 - 15 segments
- 657.6x0.55 & 657.8x0.55 - 15 segments with a siren
- 657.420.55 & 657.920.55 - 6 segments
- 657.430.55 & 657.930.55 - 6 segments with a siren

4.2.1 Overview of the connection area



Item	Description
1	User button
2	Status LED
3	USB-C connection
4	8-pin M12 connector

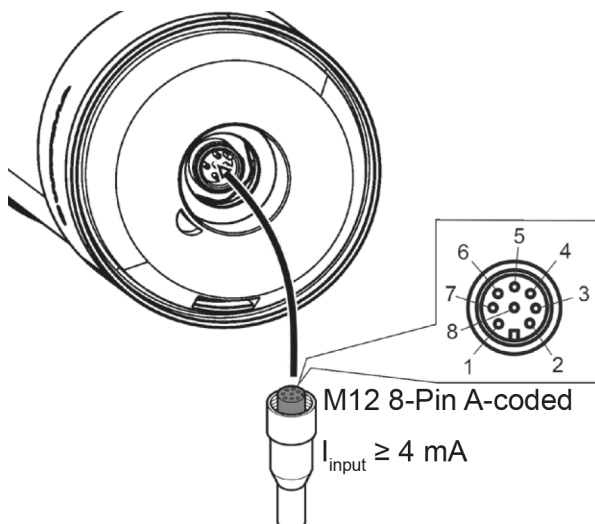
LED status	Description
LED flashes yellow	Normal operation
LED pulses	Firmware update is being installed
LED is off	USB-C cable not properly connected



The user button is not functional in the current eSIGN version and is kept available for future functional enhancements.

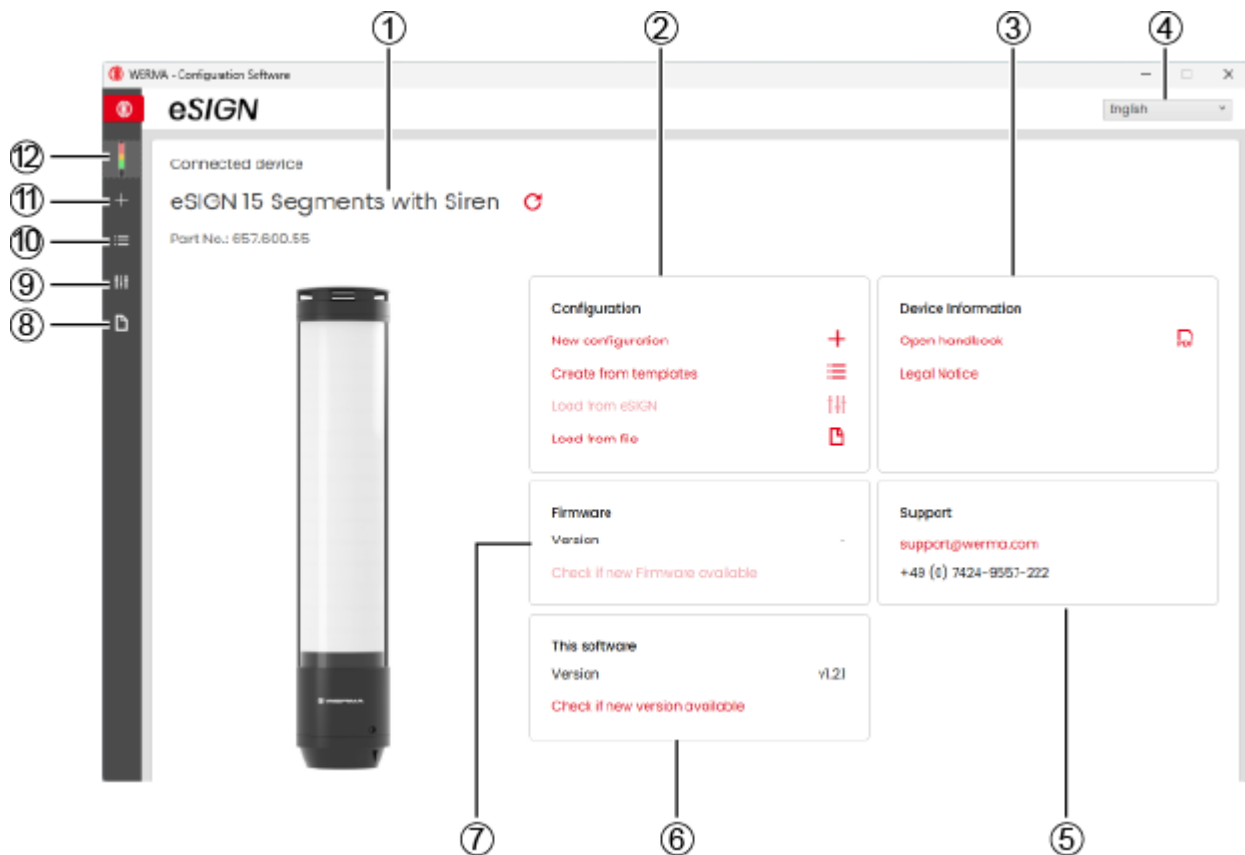
4.2.2 Overview of the 8-pin M12 connector

The eSIGN is connected via an 8-pin M12 connector with the following assignment:



M12 pin assignment	Wire colour of M12 cable	Function
1	white	Signal 1
2	brown	Signal 2
3	green	Signal 3
4	yellow	Signal 4
5	grey	Signal 5
6	pink	Signal 6
7	blue	COM
8	red	+24V

4.3 Overview



Item	Description
1	Variant of the connected eSIGN
2	Configuration area
3	Device Information area
4	Setting the language
5	Support area
6	This software area
7	Firmware area
8	Opening configuration from file
9	Loading a configuration from the eSIGN
10	Creating a configuration from sample templates
11	Creating a new configuration
12	Opening the start screen
13	Device selection eSIGN, MC55 Touch Smart, MC55 High Smart, MC55 Smart

4.3.1 Configuration area

The following options for creating a configuration are available in the **Configuration** area:

- **New configuration:** Create a new configuration (see "Creating a new configuration", S. 121).
- **Create from templates:** Open standard templates that can be transferred to the device immediately (see "Creating a configuration from sample templates", S. 167).
- **Load from eSIGN:** Open the current configuration (for example the default setting) for editing (see "Loading the configuration of the connected eSIGN", S. 168).
- **Load from file:** Open and reuse an existing configuration (see "Opening configuration from file", S. 169).

4.3.2 Device Information area

The manual and legal information can be opened in the **Device Information** area.

4.3.3 Support area

The **Support** area displays the contact information of the WERMA support team.

4.3.4 This software area

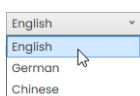
The **This software** area displays information about the version status of the WERMA - Configuration Software and offers a possibility to update the configuration software.

4.3.5 Firmware area

The **Firmware** area displays information about the firmware of the connected eSIGN and offers a possibility to update the firmware.

4.4 Setting the language

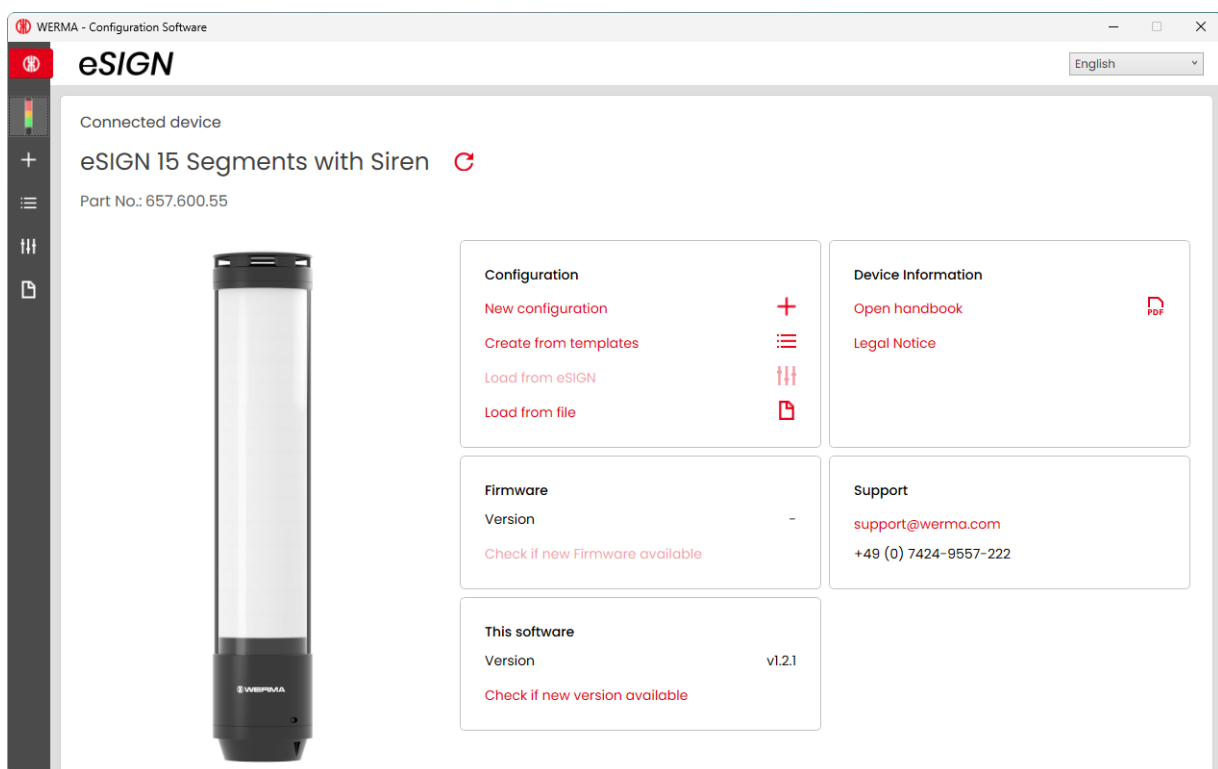
1. Select the desired language in the selection menu.



4.5 Creating a new configuration

-  The configuration can be performed with or without connecting an eSIGN.
-  The eSIGN can be connected simultaneously to a computer via the USB cable and to the 24 V power supply via the M12 cable.

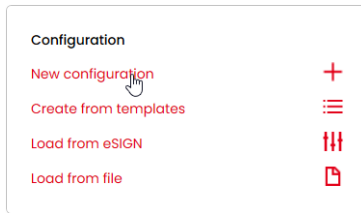
1. Use the USB cable to connect the eSIGN to the computer.
→ The WERMA - Configuration Software detects the connected eSIGN.



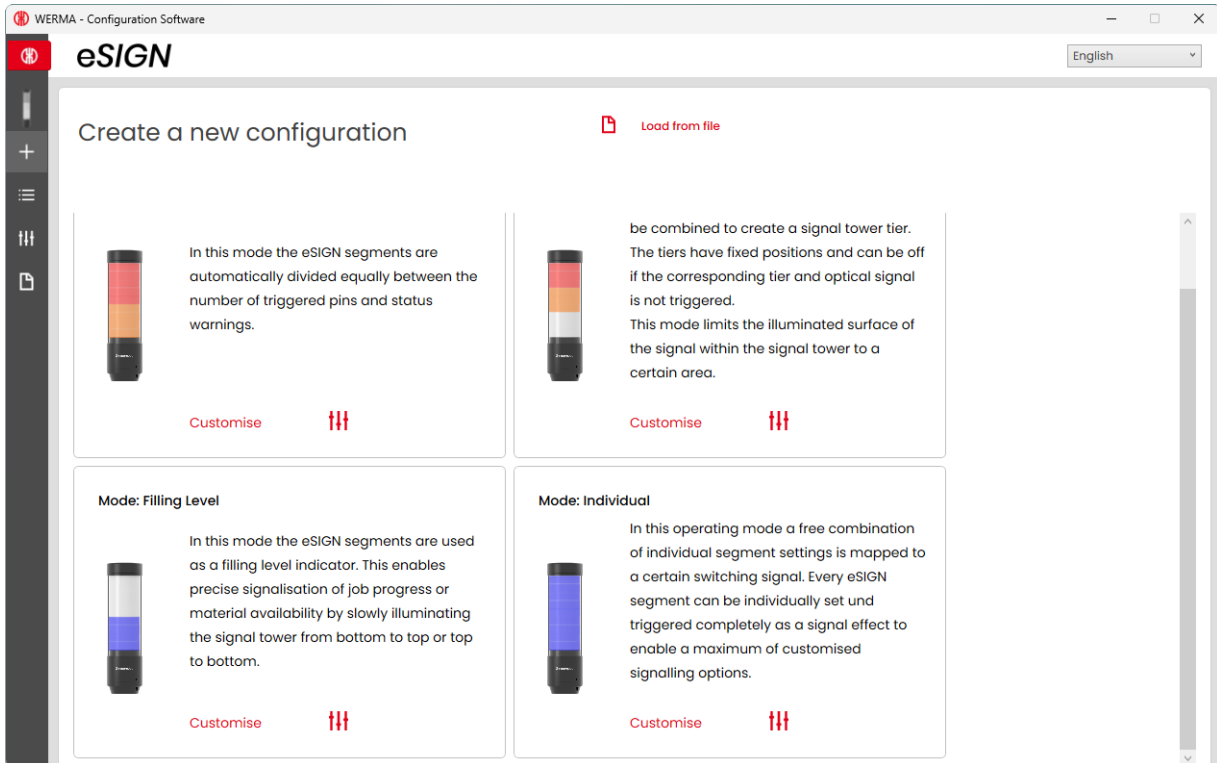
2. If the WERMA - Configuration Software does not detect the connected eSIGN: Click on **Refresh connected device**.

No Device connected 

- Click on **New configuration** in the **Configuration** area.



→ The **Create a new configuration** screen appears.



- Depending on the desired configuration mode, click on **Customise** in the **Mode: Autoscale**, **Mode: Signal Tower**, **Mode: Filling Level** or **Mode: Individual** area.



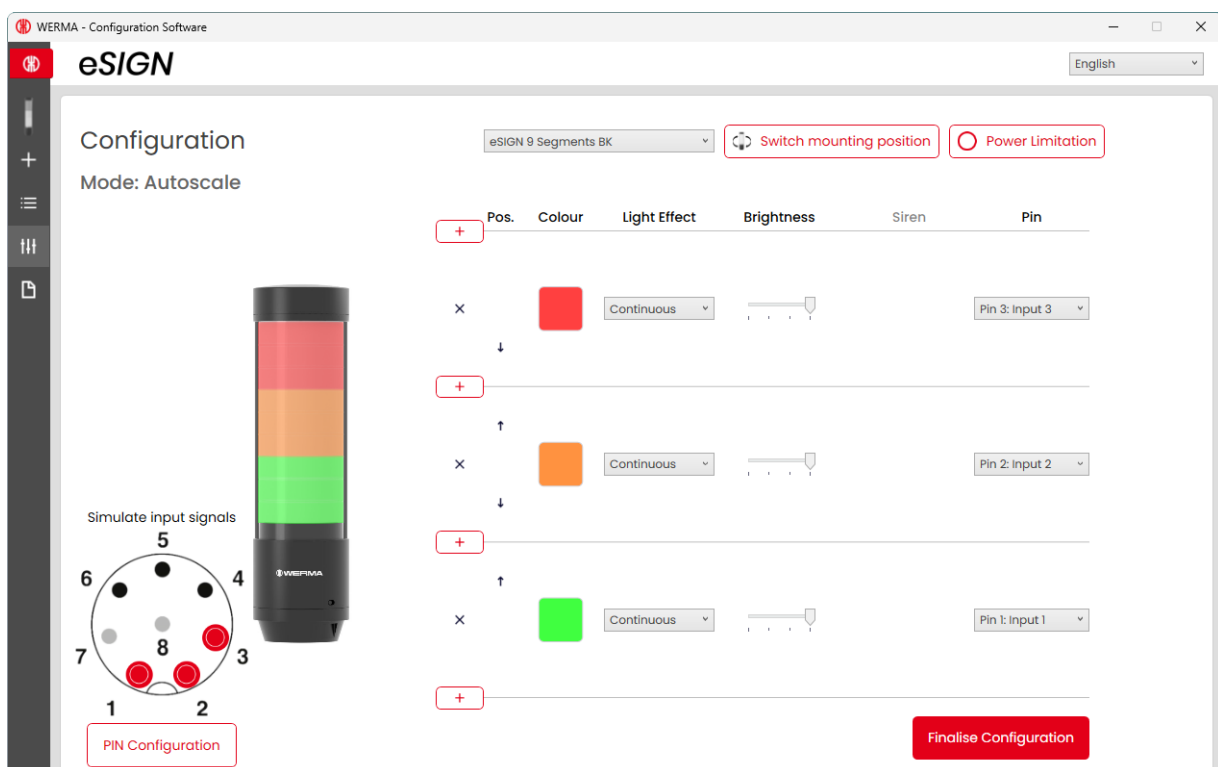
4.5.1 Autoscale mode



eSIGN segments are automatically divided equally between the number of triggered pins and status messages.

This enables the full potential of the eSIGN to be exploited by providing full-surface illumination. If for example only one status message is active then the entire surface of the eSIGN is illuminated in one colour for maximum visibility.

If several status warnings are active, the illuminated area is split proportionally. If the segments cannot be divided equally then the highest priority colour (highest position in the signal tower) receives the remaining segment. If several segments remain, they will be divided equally according to their prioritisation (position in the signal tower from top to bottom).





If necessary, the orientation of the displayed signal tower can be rotated by 180° with the **Switch mounting position** button.



If necessary (for example, to take into account the power limits of control outputs), the power consumption of the eSIGN can be reduced with the **Power limitation** button. In this case, the current power requirement of the tower is reduced to less than 500 mA. As a result, the optical signals' brightness or the audible signals' volume is reduced.

The **Autoscale** mode is the default operating mode at the time of delivery and is set as follows:

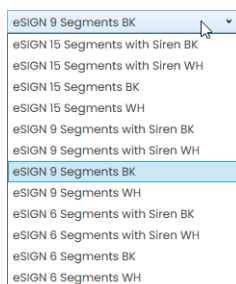
- Variants with 6 or 9 segments:
 - 3 tiers red/yellow/green
 - Continuous light
- Variants with 15 segments:
 - 5 tiers red/yellow/green/white/blue
 - Continuous light

The default setting deviates from this standard for customer-specific versions and is documented separately.

4.5.1.1 Selecting a eSIGN variant

The variant is pre-selected accordingly if an *SIGNe* has been connected. If no eSIGN has been connected, the variant of the eSIGN to be configured can be selected.

1. If necessary, select the variant of the eSIGN to be configured.



4.5.1.2 Adding or removing a tier

As soon as a tier is added or removed in **Autoscale** mode, the individual eSIGN segments are automatically re-divided and evenly distributed across all tiers. If the segments cannot be divided equally then the highest priority colour (highest position in the signal tower) receives the remaining segment. If several segments remain, they will be divided equally according to their prioritisation (position in the signal tower from top to bottom).

Adding a tier

1. Click on **Add**.



x

→ A tier has been added.

Removing a tier

1. Click on **Delete**.

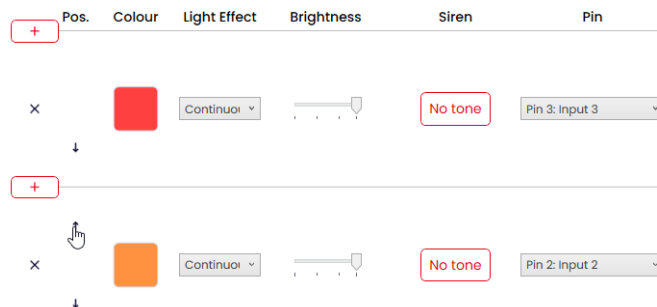


→ A tier has been removed.

4.5.1.3 Moving a tier

The individual tiers can be moved up or down as required.

1. Click on the Move up or Move down arrow in the **Pos.** column to move the tier up or down.



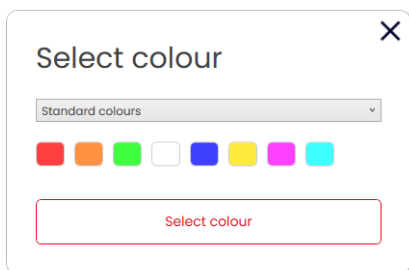
4.5.1.4 Selecting a colour

A standard colour or individual colour can be assigned to every tier.

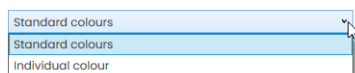
1. Click on the colour field in the **Colour** column.



→ The **Select colour** window appears.



2. Select whether to use a standard colour or an individual colour.



Standard colour

1. Click on the desired colour field.

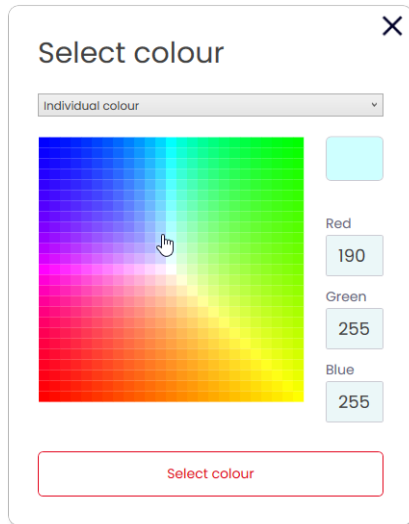


The following 8 standard colours are available:

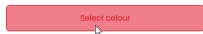
- red
- yellow
- green
- white
- blue
- light yellow
- magenta
- turquoise

Individual colour

1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.

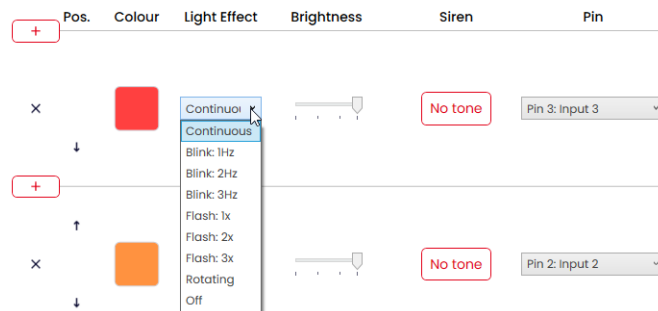


2. Click on **Select colour**.



4.5.1.5 Selecting a light pattern

1. Select the desired light pattern in the **Light Effect** column.



The following 8 light effects are available:

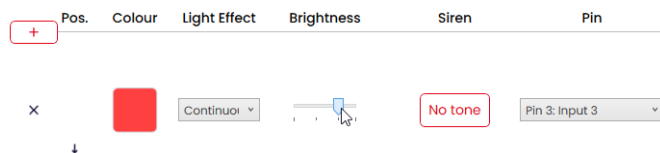
- Continuous light
- Blinking 1 Hz
- Blinking 2 Hz
- Blinking 3 Hz
- Flashing 1x
- Flashing 2x
- Flashing 3x
- Rotating
- Off



The setting **Off** can be selected if the tier is only to be configured with a siren.

4.5.1.6 Setting the brightness

1. Set the desired brightness of the tier from the 4 options in the **Brightness** column.



4.5.1.7 Selecting a siren

If the connected or selected eSIGN has a siren, you can select a signal tone which will sound when the tier is enabled.

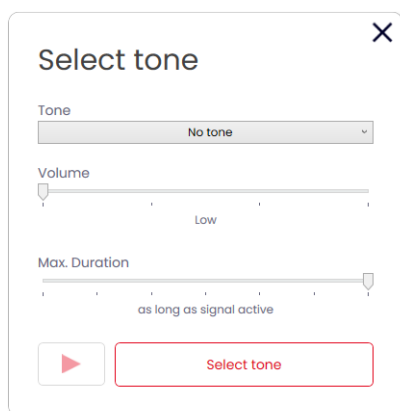


If several tiers are set, and the tiers are enabled at the same time, the siren will sound for the colour with the highest priority (highest position within the tower).

1. Click on **No tone** in the **Siren** column.



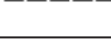
→ The **Select tone** window appears.



4 Configuring the eSIGN

2. Select the desired **Tone**, the desired **Volume** and **Max. Duration**.

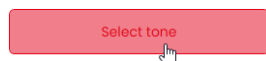
The following 10 tones are available:

Sound	Frequency	Description	Max. dB (A)
1	 2.7 kHz	Continuous tone	104
2	 0.9 kHz	Continuous tone	96
3	 2.1 kHz	Pulse tone	97
4	 0.9 kHz	Pulse tone	93
5	 2.6 kHz	Pulse tone	103
6	 0.9 kHz	Pulse tone	96
7	 2.7 kHz	Pulse tone	104
8	 2.3 kHz – 3.6 kHz	Sweep tone	104
9	 2.6 kHz	Continuous tone	105
10	 1.2 kHz – 0.8 kHz	Alternating tone	95



The selected sound can be tested with button ► in the selection of tones. The sound is then played by the computer.

3. Click on **Select tone**.



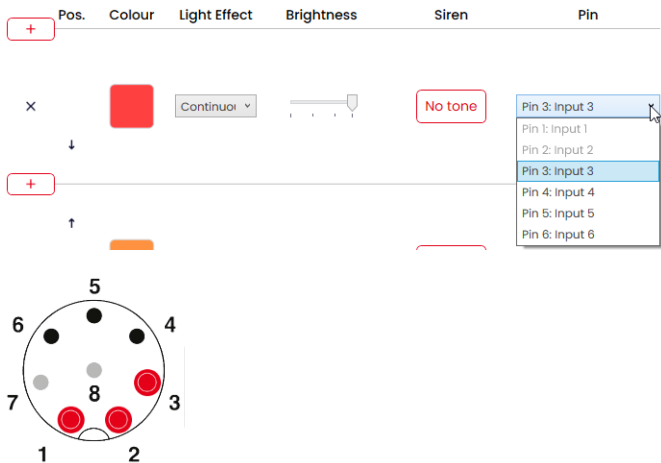
4.5.1.8 Selecting a pin



The fields are pre-configured with a standard configuration, starting from the bottom tier of the tower with pin 1.

Pins that are already in use are shown in grey. The configuration can be changed as required.

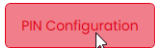
1. Select the pin of the 8-pin connector on which the signal to trigger the tier is sent in the **Pins** column.



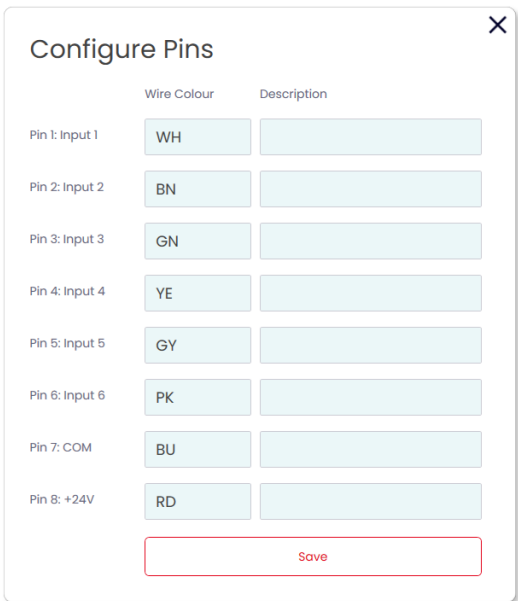
Modifying a pin configuration

If necessary, the assignment of the wire colour to the pin can be changed and a description of the signal added.

1. Click on **Configure Pins** under the pin overview.



→ The **Configure Pins** window appears.

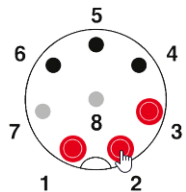


2. Enter the desired wire colour in the **Colour** column.
3. Enter the description of the signal in the **Description** column.
4. Click on **Save**.

4.5.1.9 Simulating signal inputs

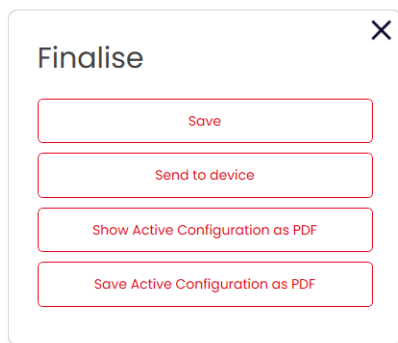
Once all settings have been made, the signal inputs can be simulated.

1. Click on the pin that enables the desired tier in the pin overview.



4.5.1.10 Finalising a configuration

1. Make additional changes to the configuration as required.
2. Once all tiers are configured as desired, click on **Finalise**.
→ The **Finalise** window appears.

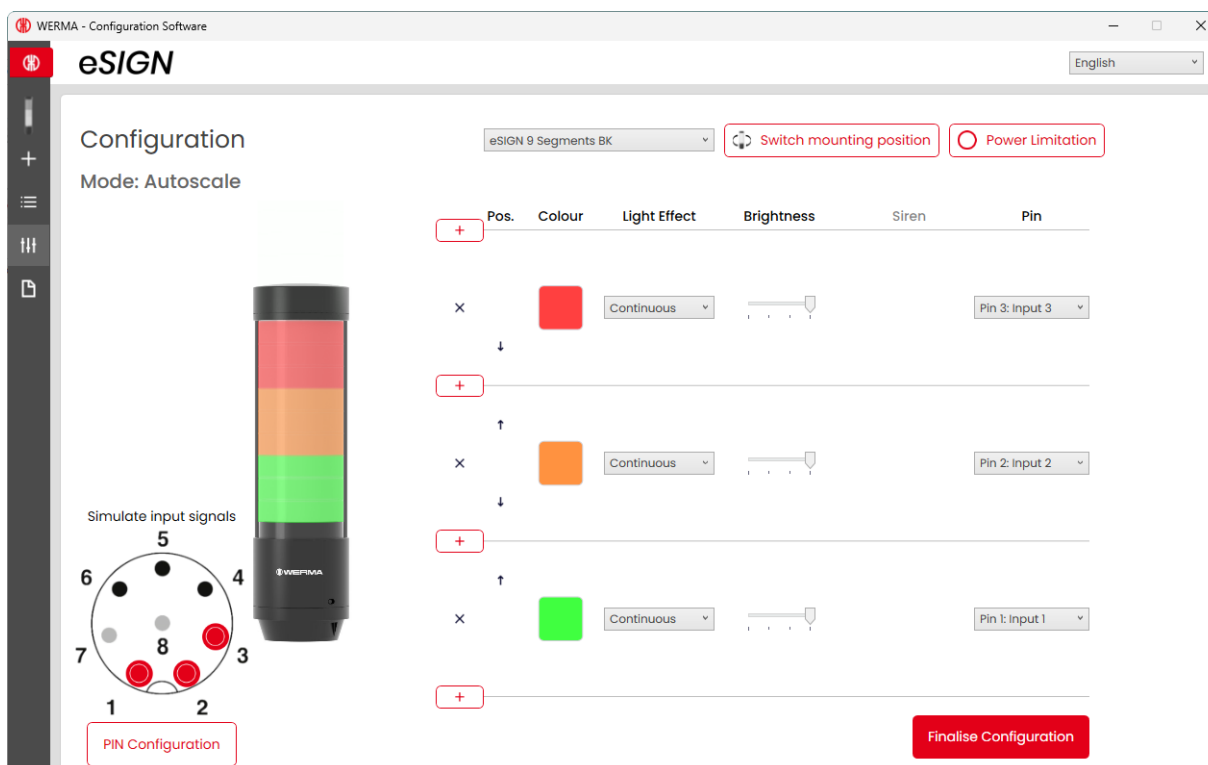


3. Click on **Save** to save the configuration in a configuration file.
4. Click on **Send to device** to transfer the configuration to the connected eSIGN.
5. Click on **Show Active Configuration as PDF** to display an overview of the current configuration.
6. Click on **Save Active Configuration as PDF** to save the overview of the current configuration as a PDF file.

4.5.2 Signal tower mode

 Individual eSIGN segments can be combined to create a signal tower tier. This enables a classic signal tower to be created in an electronically modular form. In this mode, the tiers have fixed positions and can be off if the corresponding tier and optical signal are not enabled.

This mode limits the illuminated surface of the signal within the signal tower to a certain area.



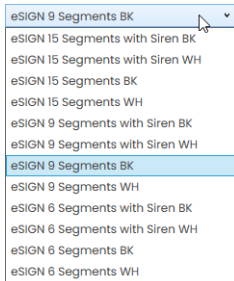
 If necessary, the orientation of the displayed signal tower can be rotated by 180° with the **Switch mounting position** button.

 If necessary (for example, to take into account the power limits of control outputs), the power consumption of the eSIGN can be reduced with the **Power limitation** button. In this case, the current power requirement of the tower is reduced to less than 500 mA. As a result, the optical signals' brightness or the audible signals' volume is reduced.

4.5.2.1 Selecting a eSIGN variant

The variant is pre-selected accordingly if an *SIGNe* has been connected. If no eSIGN has been connected, the variant of the eSIGN to be configured can be selected.

1. If necessary, select the variant of the eSIGN to be configured.



4.5.2.2 Adding or removing a tier

As soon as a tier is added or removed in **Signal Tower** mode, the individual eSIGN segments are automatically re-divided and evenly distributed across all tiers.

Adding a tier

1. Click on **Add**.



x

→ A tier has been added.

Removing a tier

1. Click on **Delete**.

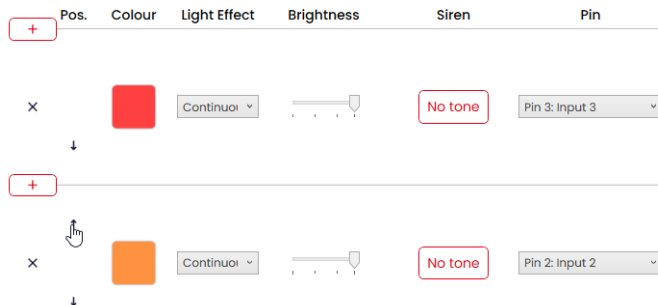


→ A tier has been removed.

4.5.2.3 Moving a tier

The individual tiers can be moved up or down as required.

1. Click on the Move up or Move down arrow in the **Pos.** column to move the tier up or down.



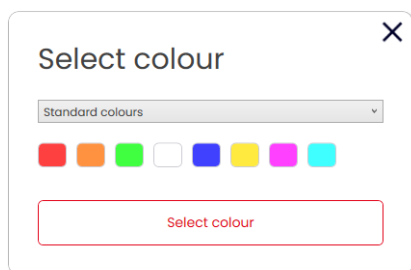
4.5.2.4 Selecting a colour

A standard colour or individual colour can be assigned to every tier.

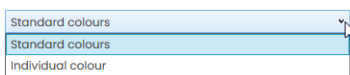
1. Click on the colour field in the **Colour** column.



→ The **Select colour** window appears.



2. Select whether to use a standard colour or an individual colour.



Standard colour

1. Click on the desired colour field.



The following 8 standard colours are available:

- red
- yellow
- green
- white
- blue
- light yellow
- magenta
- turquoise

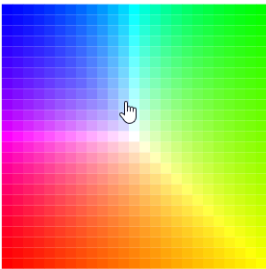
Individual colour

1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.

×

Select colour

Individual colour



Red

190

Green

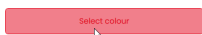
255

Blue

255

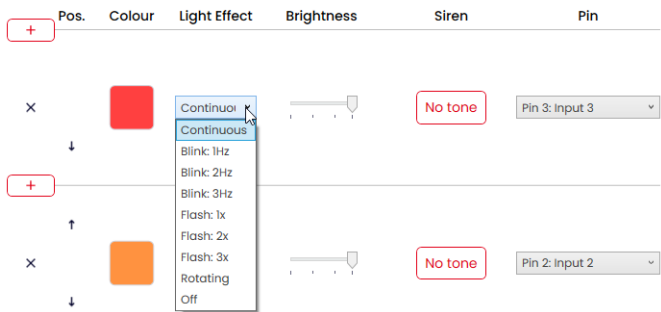
Select colour

2. Click on **Select colour**.



4.5.2.5 Selecting a light pattern

1. Select the desired light pattern in the **Light Effect** column.



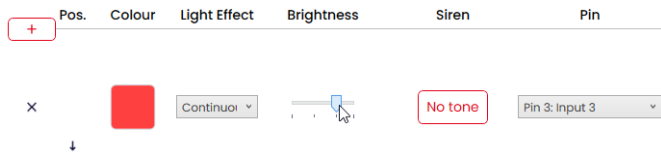
The following 8 light effects are available:

- Continuous light
- Blinking 1 Hz
- Blinking 2 Hz
- Blinking 3 Hz
- Flashing 1x
- Flashing 2x
- Flashing 3x
- Rotating
- Off

i The setting **Off** can be selected if the tier is only to be configured with a siren.

4.5.2.6 Setting the brightness

1. Set the desired brightness of the tier from the 4 options in the **Brightness** column.



4.5.2.7 Selecting a siren

If the connected or selected eSIGN has a siren, you can select a signal tone which will sound when the tier is enabled.

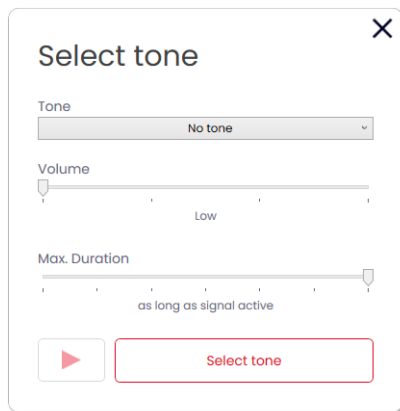


If several tiers are set, and the tiers are enabled at the same time, the siren will sound for the colour with the highest priority (highest position within the tower).

1. Click on **No tone** in the **Siren** column.

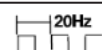
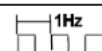
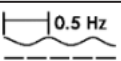


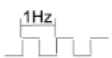
→ The **Select tone** window appears.



2. Select the desired **Tone**, the desired **Volume** and **Max. Duration**.

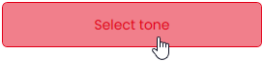
The following 10 tones are available:

Sound	Frequency	Description	Max. dB (A)
1	———— 2.7 kHz	Continuous tone	104
2	———— 0.9 kHz	Continuous tone	96
3	 420Hz 2.1 kHz	Pulse tone	97
4	 20Hz 0.9 kHz	Pulse tone	93
5	 20Hz 2.6 kHz	Pulse tone	103
6	 1Hz 0.9 kHz	Pulse tone	96
7	 1Hz 2.7 kHz	Pulse tone	104
8	 0.5 Hz 2.3 kHz– 3.6 kHz	Sweep tone	104

Sound	Frequency	Description	Max. dB (A)
9	 2.6 kHz	Continuous tone	105
10	 1.2 kHz - 0.8 kHz	Alternating tone	95

 The selected sound can be tested with button  in the selection of tones. The sound is then played by the computer.

3. Click on **Select tone**.



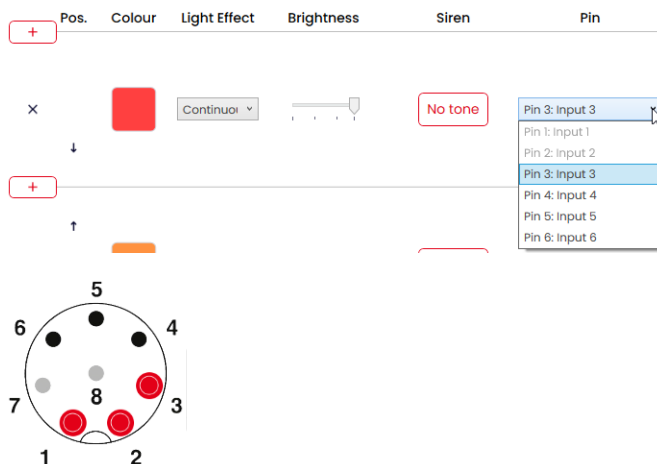
4.5.2.8 Selecting a pin



The fields are pre-configured with a standard configuration, starting from the bottom tier of the tower with pin 1.

Pins that are already in use are shown in grey. The configuration can be changed as required.

1. Select the pin of the 8-pin connector on which the signal to trigger the tier is sent in the **Pins** column.



Modifying a pin configuration

If necessary, the assignment of the wire colour to the pin can be changed and a description of the signal added.

1. Click on **Configure Pins** under the pin overview.



→ The **Configure Pins** window appears.

×

Configure Pins

	Wire Colour	Description
Pin 1: Input 1	WH	
Pin 2: Input 2	BN	
Pin 3: Input 3	GN	
Pin 4: Input 4	YE	
Pin 5: Input 5	GY	
Pin 6: Input 6	PK	
Pin 7: COM	BU	
Pin 8: +24V	RD	

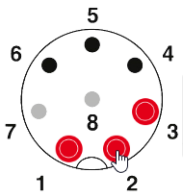
Save

2. Enter the desired wire colour in the **Colour** column.
3. Enter the description of the signal in the **Description** column.
4. Click on **Save**.

4.5.2.9 Simulating signal inputs

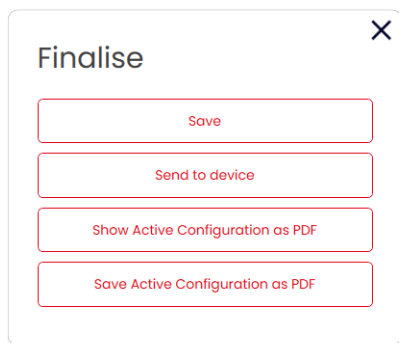
Once all settings have been made, the signal inputs can be simulated.

1. Click on the pin that enables the desired tier in the pin overview.



4.5.2.10 Finalising a configuration

1. Make additional changes to the configuration as required.
2. Once all tiers are configured as desired, click on **Finalise**.
→ The **Finalise** window appears.



3. Click on **Save** to save the configuration in a configuration file.
4. Click on **Send to device** to transfer the configuration to the connected eSIGN.
5. Click on **Show Active Configuration as PDF** to display an overview of the current configuration.
6. Click on **Save Active Configuration as PDF** to save the overview of the current configuration as a PDF file.

4.5.3 Filling level mode



The eSIGN segments are used as a filling level indicator in this operating mode. This enables precise signalisation of the job progress or material availability in machine processes by slowly illuminating the signal tower from bottom to top or top to bottom.

Mode: Filling Level

Device

eSIGN 15 Segments with Siren

Colours

Single Colour

Number of signal combinations: 15

= Number of assigned segments: 15

= Number of unassigned segments: 0

Allocation of unassigned segments

Top (filled)

Generate Configuration

4.5.3.1 Selecting a eSIGN variant

The variant is pre-selected accordingly if an *SIGNe* has been connected. If no eSIGN has been connected, the variant of the eSIGN to be configured can be selected.

1. If necessary, select the variant of the eSIGN in the **Device** field.

Device

eSIGN 9 Segments BK

eSIGN 15 Segments with Siren BK

eSIGN 15 Segments with Siren WH

eSIGN 15 Segments BK

eSIGN 15 Segments WH

eSIGN 9 Segments with Siren BK

eSIGN 9 Segments with Siren WH

eSIGN 9 Segments BK

eSIGN 9 Segments WH

eSIGN 6 Segments with Siren BK

eSIGN 6 Segments with Siren WH

eSIGN 6 Segments BK

eSIGN 6 Segments WH

4.5.3.2 Selecting the number of signal combinations

1. Select in the **Number of signal combinations** area how many eSIGN segments are to be used for the filling level indicator.

If not all eSIGN segments are used for the filling level indicator:

2. Select in the **Allocation of unassigned segments** field how to display the eSIGN segments that are not to be used for the filling level indicator.

Setting	Description
Top (filled)	Unassigned eSIGN segments are assigned to the top and triggered with the top tier.
Bottom (filled)	Unassigned eSIGN segments are assigned to the bottom and triggered with the bottom tier.
Top (not active)	Unassigned eSIGN segments are assigned to the top and are always off.
Bottom (not active)	Unassigned eSIGN segments are assigned to the bottom and are always off.

4.5.3.3 Selecting a colour

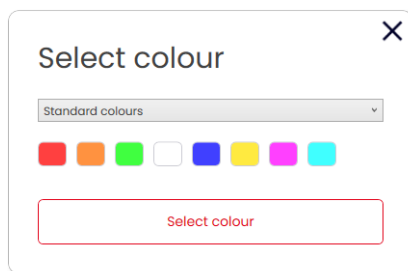
A uniform colour or colour gradient can be selected for the filling level indicator. The colour gradient option means that the gradual transformation between the two colours is automatically calculated.

If necessary, the colour of each segment of the filling level indicator can be adjusted later.

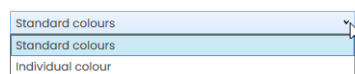
1. Select whether the filling level should be displayed in a uniform colour or as a colour gradient in the **Colours** field.

Single colour

1. Click on the colour field to select the desired colour.
→ The **Select colour** window appears.



2. Select whether to use a standard colour or an individual colour.



Standard colour

1. Click on the desired colour field.

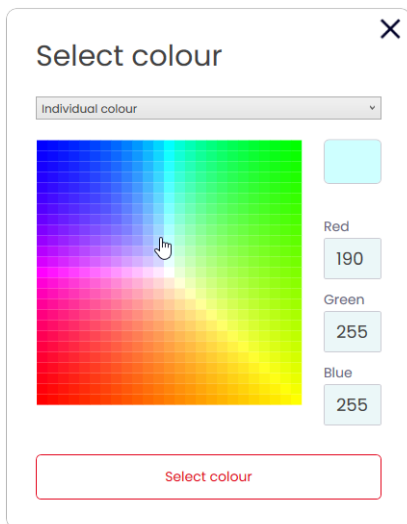


The following 8 standard colours are available:

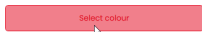
- red
- yellow
- green
- white
- blue
- light yellow
- magenta
- turquoise

Individual colour

1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.



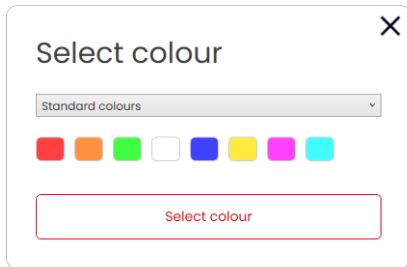
2. Click on **Select colour**.



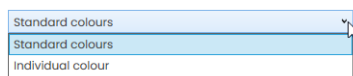
3. Click on **Generate Configuration**.
→ The **Configuration** screen appears.

Colour gradient

1. Click on the colour fields for the start and end colour of the colour gradient.
→ The **Select colour** window appears.



2. Select whether to use a standard colour or an individual colour.



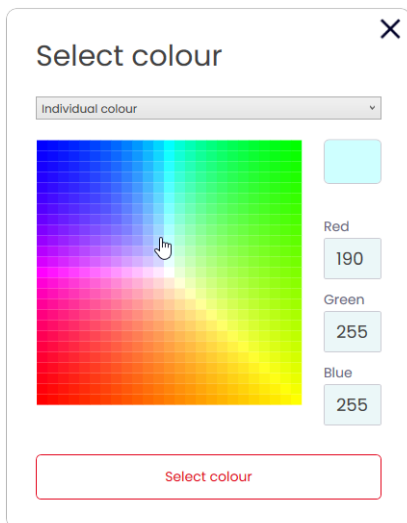
Standard colour

1. Click on the desired colour field.

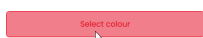


Individual colour

1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.

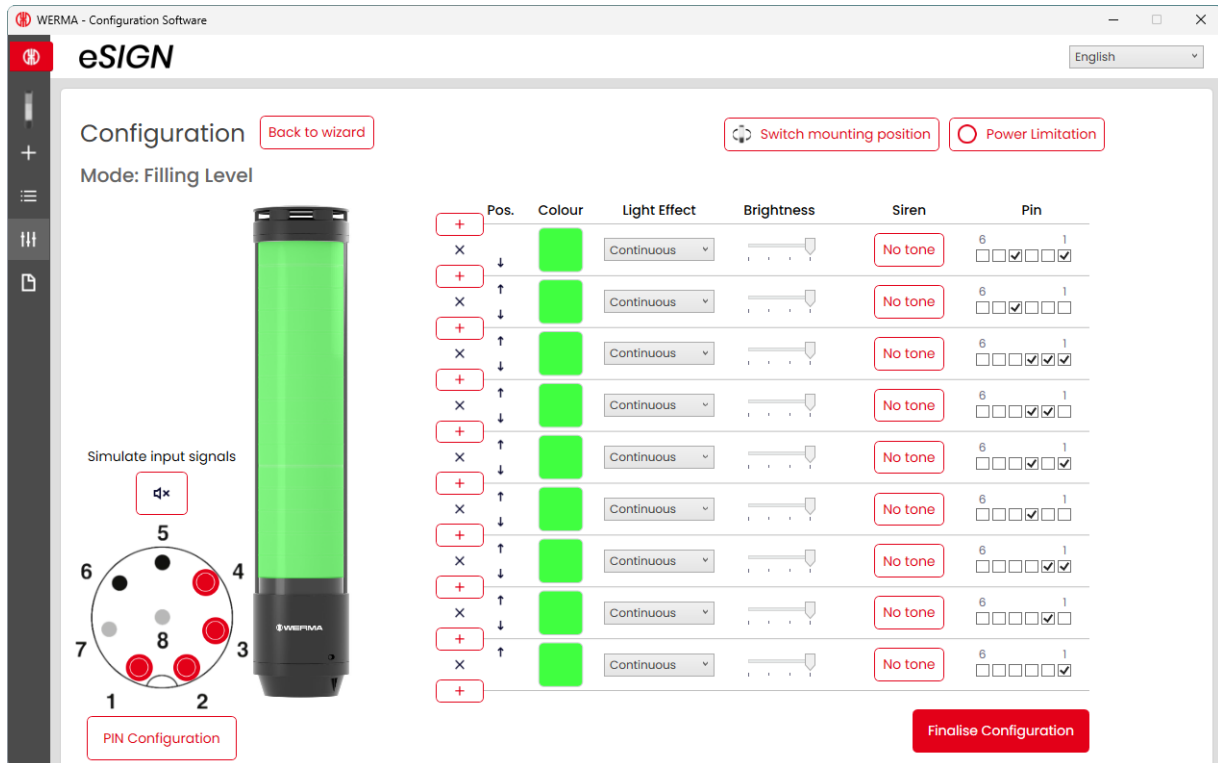


2. Click on **Select colour**.



3. Click on **Generate Configuration**.
→ The **Configuration** screen appears.

4.5.3.4 Configuring the filling level indicator



i If necessary, the orientation of the displayed signal tower can be rotated by 180° with the **Switch mounting position** button.

i If necessary (for example, to take into account the power limits of control outputs), the power consumption of the eSIGN can be reduced with the **Power limitation** button. In this case, the current power requirement of the tower is reduced to less than 500 mA. As a result, the optical signals' brightness or the audible signals' volume is reduced.

i If necessary, the configuration of the colour and segments can be opened and adjusted via the **Back to wizard** link.

Removing or adding segments

Removing a segment

1. Click on **Delete**.



→ The segment has been removed.

Adding a segment

1. Click on **Add**.



→ The segment has been added.

Moving a segment

The individual segments can be moved up or down as required.

1. Click on the Move up or Move down arrow in the **Pos.** column to move the segment up or down.

	Pos.	Colour	Light Effect	Brightness	Siren	Pin				
x	↓		Continuous ▾		No tone	6	☐	☒	☒	☒
x	↑		Continuous ▾		No tone	6	☐	☒	☒	☐

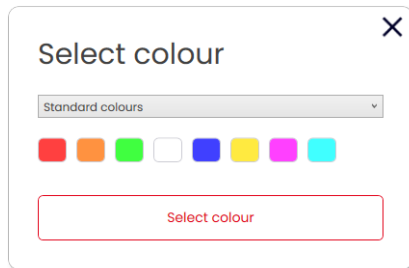
Selecting a colour

A standard colour can be selected for each segment or an individual colour assigned as required.

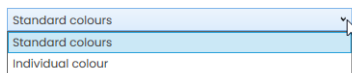
1. Click on the colour field in the **Colour** column.

Pos.	Colour	Light Effect	Brightness	Siren	Pin
x		Continuoi		No tone	6 ☐ ☒ ☒ ☒ ☒ 1
x		Continuoi		No tone	6 ☐ ☒ ☒ ☒ ☒ 1

→ The **Select colour** window appears.



2. Select whether to use a standard colour or an individual colour.



Standard colour

1. Click on the desired colour field.

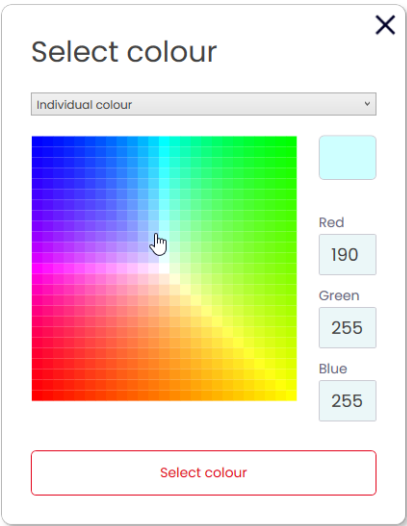


The following 8 standard colours are available:

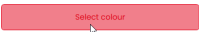
- red
- yellow
- green
- white
- blue
- light yellow
- magenta
- turquoise

Individual colour

1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.



2. Click on **Select colour**.



Selecting a light pattern

1. Select the desired light pattern in the **Light Effect** column.

Pos.	Colour	Light Effect	Brightness	Siren	Pin
x	↓	Continuous		No tone	6 ☐ ☐ ☒ ☒ ☒
x	↑	Continuous		No tone	6 ☐ ☐ ☒ ☒ ☐
x	↓	Blink: 1Hz		No tone	6 ☐ ☐ ☒ ☒ ☒
x	↑	Blink: 2Hz		No tone	6 ☐ ☐ ☒ ☒ ☐
x	↓	Blink: 3Hz		No tone	6 ☐ ☐ ☒ ☒ ☐
x	↑	Flash: 1x		No tone	6 ☐ ☐ ☒ ☒ ☒
x	↓	Flash: 2x		No tone	6 ☐ ☐ ☒ ☒ ☐
x	↑	Flash: 3x		No tone	6 ☐ ☐ ☒ ☒ ☐
x	↓	Rotating		No tone	6 ☐ ☐ ☒ ☐ ☒
x	↑	Off		No tone	6 ☐ ☐ ☒ ☐ ☐

The following 8 light effects are available:

- Continuous light
- Blinking 1 Hz
- Blinking 2 Hz
- Blinking 3 Hz
- Flashing 1x
- Flashing 2x
- Flashing 3x
- Rotating
- Off

The setting **Off** can be selected if the tier is only to be configured with a siren.

Setting the brightness

1. Set the desired brightness of the tier from the 4 options in the **Brightness** column.

Pos.	Colour	Light Effect	Brightness	Siren	Pin
x	↓	Continuoi		No tone	6 1
x	↑	Continuoi		No tone	6 1

Selecting a siren

If the connected or selected eSIGN has a siren, you can select a signal tone which will sound when the segment is enabled.



If several tiers are set, and the tiers are enabled at the same time, the siren will sound for the colour with the highest priority (highest position within the tower).

1. Click on **No tone** in the **Siren** column.

Pos.	Colour	Light Effect	Brightness	Siren	Pin
x	↓	Continuoi		No tone	6 1
x	↑	Continuoi		No tone	6 1

→ The **Select tone** window appears.

×

Select tone

Tone

No tone

Volume

Low

Max. Duration

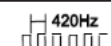
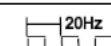
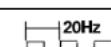
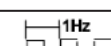
as long as signal active

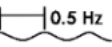
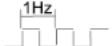
▶

Select tone

2. Select the desired **Tone**, the desired **Volume** and **Max. Duration**.

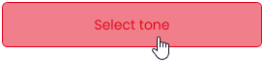
The following 10 tones are available:

Sound	Frequency	Description	Max. dB (A)
1	 2.7 kHz	Continuous tone	104
2	 0.9 kHz	Continuous tone	96
3	 420Hz 2.1 kHz	Pulse tone	97
4	 20Hz 0.9 kHz	Pulse tone	93
5	 20Hz 2.6 kHz	Pulse tone	103
6	 1Hz 0.9 kHz	Pulse tone	96

Sound	Frequency	Description	Max. dB (A)
7	 1Hz 2.7 kHz	Pulse tone	104
8	 0.5 Hz 2.3 kHz - 3.6 kHz	Sweep tone	104
9	 2.6 kHz	Continuous tone	105
10	 1Hz 1.2 kHz - 0.8 kHz	Alternating tone	95

 The selected sound can be tested with button ► in the selection of tones. The sound is then played by the computer.

3. Click on **Select tone**.



Selecting a pin



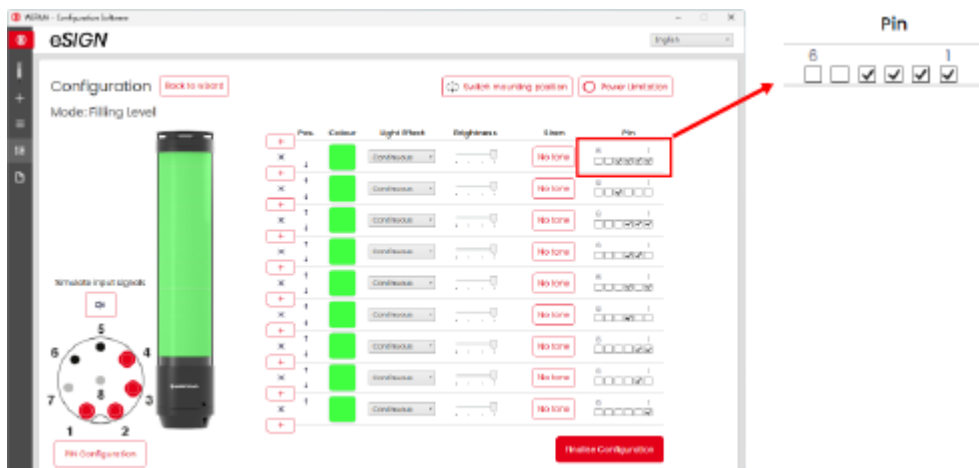
The fields are pre-configured with a standard configuration, starting from the bottom tier of the tower with pin 1.

Pins that are already in use are shown in grey. The configuration can be changed as required.

The filling level indicator is triggered via bit coding. The checkboxes in the **Pins** column correspond to the 6 pins or signal inputs. Selecting one or more checkboxes indicates that these pins or signal inputs must be triggered to enable the corresponding setting.

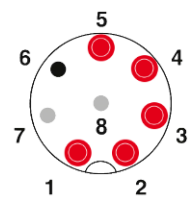
Example:

For the complete tower to be displayed in green, pins 1-4 must be triggered.



1. Select the pins of the 8-pin connector on which the signal to trigger the tier is sent in the **Pins** column.

Pos.	Colour	Light Effect	Brightness	Siren	Pin					
X	↓	Green	Continuous	No tone	6	☐	☒	☒	☒	☒
X	↑	Green	Continuous	No tone	6	☐	☒	☒	☒	☒



Modifying a pin configuration

If necessary, the assignment of the wire colour to the pin can be changed and a description of the signal added.

1. Click on **Configure Pins** under the pin overview.

PIN Configuration

→ The **Configure Pins** window appears.

	Wire Colour	Description
Pin 1: Input 1	WH	
Pin 2: Input 2	BN	
Pin 3: Input 3	GN	
Pin 4: Input 4	YE	
Pin 5: Input 5	GY	
Pin 6: Input 6	PK	
Pin 7: COM	BU	
Pin 8: +24V	RD	

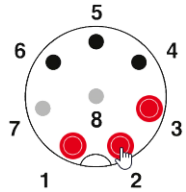
Save

2. Enter the desired wire colour in the **Colour** column.
3. Enter the description of the signal in the **Description** column.
4. Click on **Save**.

4.5.3.5 Simulating signal inputs

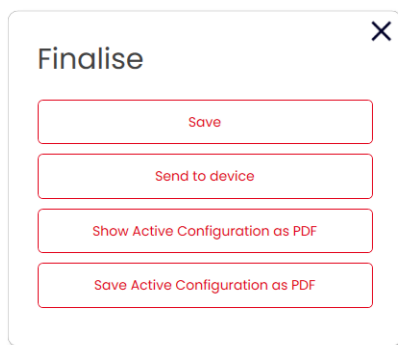
Once all settings have been made, the signal inputs can be simulated.

1. Click on the pin that enables the desired tier in the pin overview.



4.5.3.6 Finalising a configuration

1. Make additional changes to the configuration as required.
2. Once all tiers are configured as desired, click on **Finalise**.
→ The **Finalise** window appears.



3. Click on **Save** to save the configuration in a configuration file.
4. Click on **Send to device** to transfer the configuration to the connected eSIGN.
5. Click on **Show Active Configuration as PDF** to display an overview of the current configuration.
6. Click on **Save Active Configuration as PDF** to save the overview of the current configuration as a PDF file.

4.5.4 Individual mode



A free combination of individual segment settings is mapped to a certain switching signal in this operating mode. Every eSIGN segment can be individually set and triggered as a complete signal pattern in the form of the entire signal tower. The **Individual** mode enables a maximum of individual signalling options in this way.

Mode: Individual

Device
eSIGN 15 Segments with Siren

Configuration type
Individual Configuration

Generate Configuration

4.5.4.1 Selecting a eSIGN variant

The variant is pre-selected accordingly if an eSIGN has been connected. If no eSIGN has been connected, the variant of the eSIGN to be configured can be selected.

1. If necessary, select the variant of the eSIGN in the **Device** field.

Device

eSIGN 9 Segments BK

eSIGN 15 Segments with Siren BK

eSIGN 15 Segments with Siren WH

eSIGN 15 Segments BK

eSIGN 15 Segments WH

eSIGN 9 Segments with Siren BK

eSIGN 9 Segments with Siren WH

eSIGN 9 Segments BK

eSIGN 9 Segments WH

eSIGN 6 Segments with Siren BK

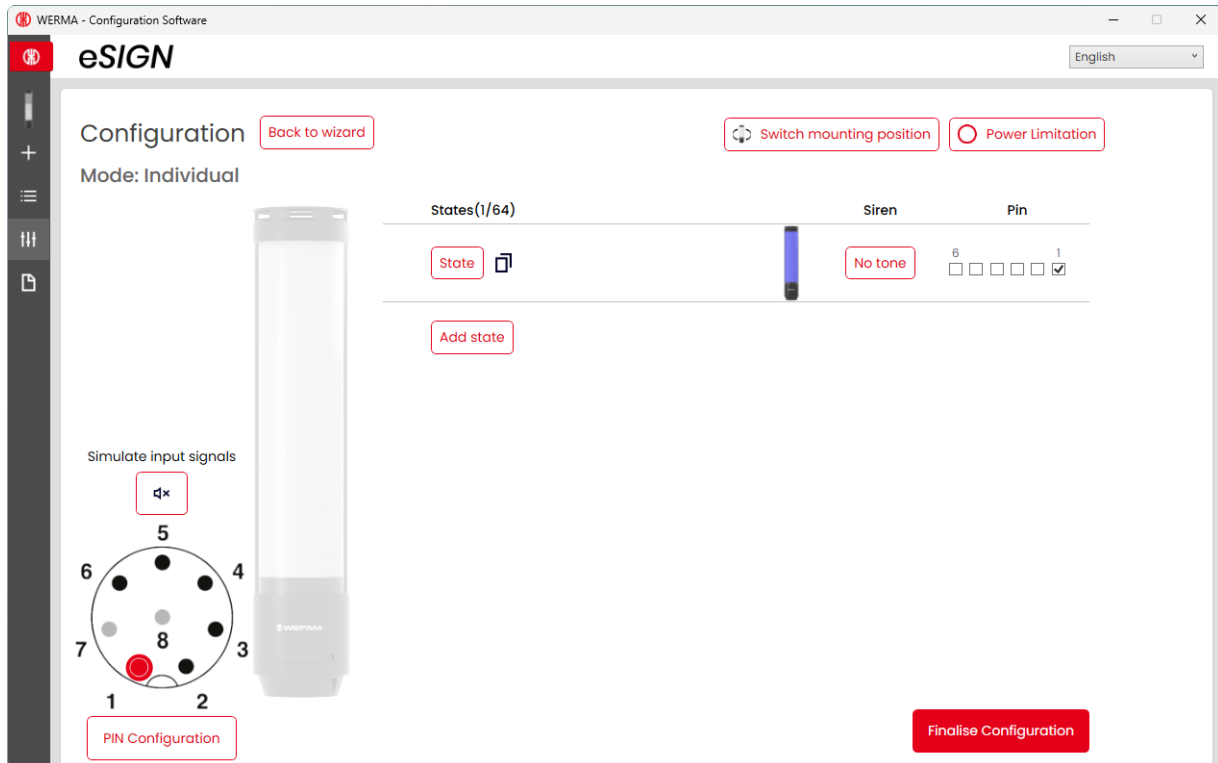
eSIGN 6 Segments with Siren WH

eSIGN 6 Segments BK

eSIGN 6 Segments WH

2. Click on **Generate Configuration**.
→ The **Configuration** screen appears.

4.5.4.2 Configuring signal patterns



i If necessary, the orientation of the displayed signal tower can be rotated by 180° with the **Switch mounting position** button.

i If necessary (for example, to take into account the power limits of control outputs), the power consumption of the eSIGN can be reduced with the **Power limitation** button. In this case, the current power requirement of the tower is reduced to less than 500 mA. As a result, the optical signals' brightness or the audible signals' volume is reduced.

i The configuration of the eSIGN variant can be opened and adjusted again via the **Back to wizard** link as required.

Modifying a signal pattern



Up to 64 signal patterns can be configured and transferred to an eSIGN.

A signal pattern consists of the individual optical settings of each segment and, if relevant, a signal tone.

1. Click on **State**.

States (/64)



→ The **State** window appears.

Combine tier	Pos	Colour	Light Effect	Brightness
0	↓	Blue	Continuous	Slider
0	↑	Blue	Continuous	Slider
0	↓	Blue	Continuous	Slider
0	↑	Blue	Continuous	Slider
0	↓	Blue	Continuous	Slider
0	↑	Blue	Continuous	Slider
0	↓	Blue	Continuous	Slider
0	↑	Blue	Continuous	Slider
0	↓	Blue	Continuous	Slider
0	↑	Blue	Continuous	Slider
0	↓	Blue	Continuous	Slider
0	↑	Blue	Continuous	Slider
0	↓	Blue	Continuous	Slider
0	↑	Blue	Continuous	Slider
0	↓	Blue	Continuous	Slider
0	↑	Blue	Continuous	Slider



If necessary, the current signal pattern can be reset to the default settings via the **Reset** button.

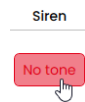
Naming a signal pattern

1. Enter a description for the current signal pattern in the **State** field.

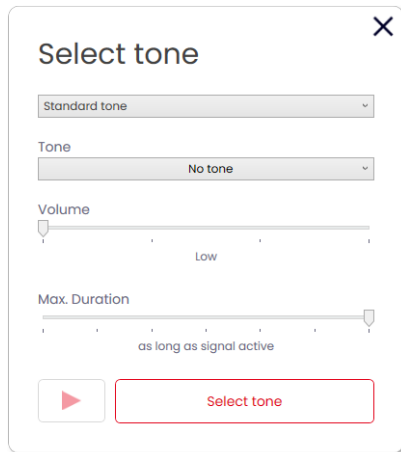
Selecting a siren

If the connected or selected eSIGN has a siren, you can select a signal tone which will sound when the signal pattern is enabled.

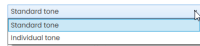
1. Click on **No tone** in the **Siren** field.



→ The **Select tone** window appears.



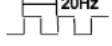
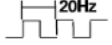
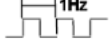
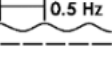
2. Select whether to use a standard tone or an individual tone.



Standard tone

3. Select the desired **Tone**, the desired **Volume** and **Max. Duration**.

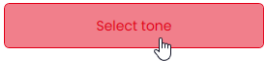
The following 10 tones are available:

Sound	Frequency	Description	Max. dB (A)
1	 2.7 kHz	Continuous tone	104
2	 0.9 kHz	Continuous tone	96
3	 2.1 kHz	Pulse tone	97
4	 0.9 kHz	Pulse tone	93
5	 2.6 kHz	Pulse tone	103
6	 0.9 kHz	Pulse tone	96
7	 2.7 kHz	Pulse tone	104
8	 2.3 kHz – 3.6 kHz	Sweep tone	104
9	 2.6 kHz	Continuous tone	105
10	 1.2 kHz – 0.8 kHz	Alternating tone	95



The selected sound can be tested with button ► in the selection of tones. The sound is then played by the computer.

4. Click on **Select tone**.



Individual tone

EN

Select tone

Individual tone

Graphical Parameter Description

Volume

Low

Tone type

Permanent

Frequency 1 (Hz)

1000

Hold time Frequency 2 (ms)

0

Repeat count

0

Pause after repeat (ms)

0

Pause between cycles (ms)

0

Select tone

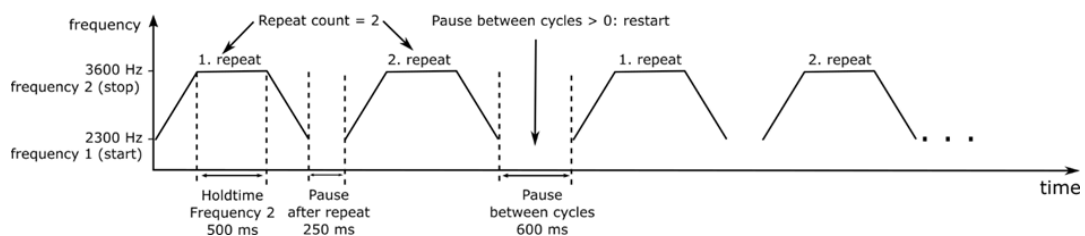
1. Make the settings as desired.



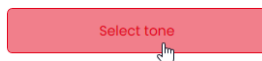
The **Individual tone** option allows a customer-specific tone to be generated from different parameters.

Further information on the individual settings can be accessed via the **Graphical Parameter Description** button and by clicking on ?.

The following screen can be accessed via the **Graphical Parameter Description** button to illustrate the effect of the individual settings.



2. Click on **Select tone**.



Connecting or separating segments

If required, multiple segments can be connected to form a tier and then separated again.

Connecting segments

1. Click on the **Link Segments** symbol in the **Link Segments** column.



Separating segments

1. Click on the **Split Segments** symbol in the **Link Segments** column.



Moving tiers

The individual tiers can be moved up or down as required.

1. Click on the Move up or Move down arrow in the **Pos.** column to move the tier up or down.

Combine tier	Pos	Colour	Light Effect	Brightness
			Continuous	
			Continuous	
			Continuous	

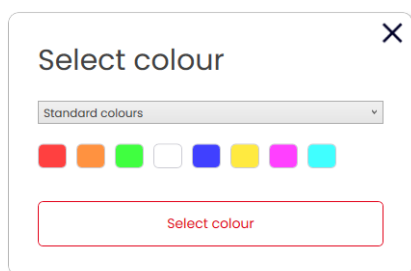
Selecting a colour

A standard colour can be selected for each segment or an individual colour assigned as required.

1. Click on the colour field in the **Colour** column.

Combine tier	Pos	Colour	Light Effect	Brightness
			Continuous	
			Continuous	

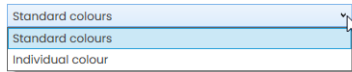
→ The **Select colour** window appears.



4 Configuring the eSIGN

EN

2. Select whether to use a standard colour or an individual colour.



Standard colour

1. Click on the desired colour field.

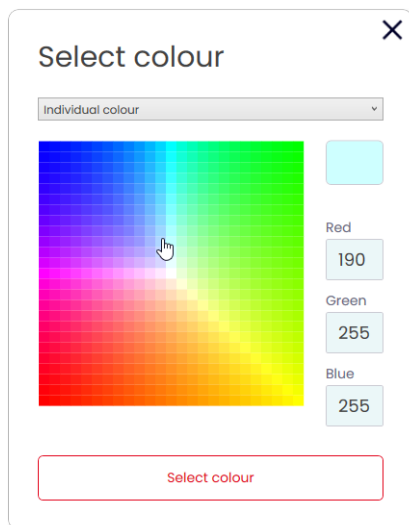


The following 8 standard colours are available:

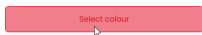
- red
- yellow
- green
- white
- blue
- light yellow
- magenta
- turquoise

Individual colour

1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.



2. Click on **Select colour**.



Selecting a light pattern

1. Select the desired light pattern in the **Light Effect** column.

Combine tier	Pos	Colour	Light Effect	Brightness
0	↓	■	Continuous	
0	↑	■	Continuous	
0	↓	■	Blink: 1Hz	
0	↑	■	Blink: 2Hz	
0	↓	■	Blink: 3Hz	
0	↑	■	Flash: 1x	
0	↓	■	Flash: 2x	
0	↑	■	Flash: 3x	
0	↓	■	Rotating	
0	↑	■	Off	
0	↓	■	Continuous	

The following 8 light effects are available:

- Continuous light
- Blinking 1 Hz
- Blinking 2 Hz
- Blinking 3 Hz
- Flashing 1x
- Flashing 2x
- Flashing 3x
- Rotating
- Off

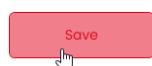
Setting the brightness

1. Set the desired brightness of the tier from the 4 options in the **Brightness** column.

Combine tier	Pos	Colour	Light Effect	Brightness
0	↓	■	Continuous	
0	↑	■	Continuous	

As soon as all settings have been made:

2. Click on **Save**.



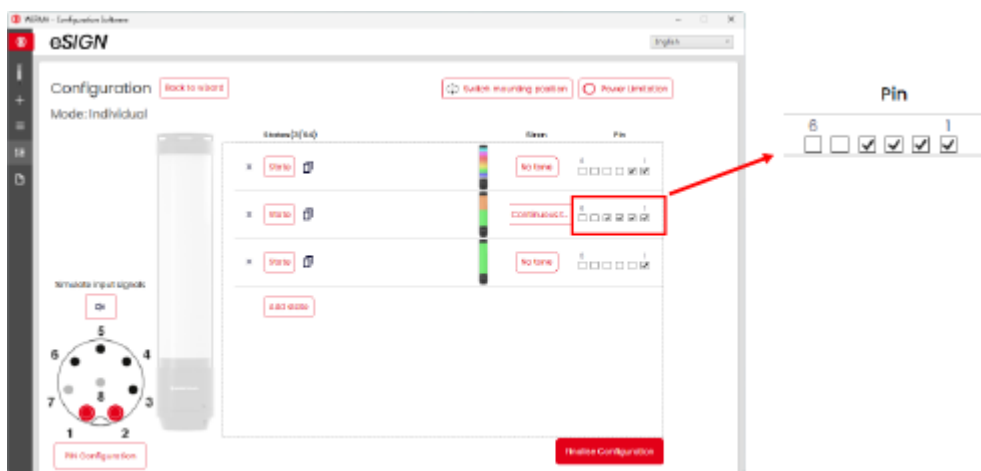
4.5.4.3 Selecting a pin

-  The fields are pre-configured with a standard configuration.
The configuration can be changed as required.

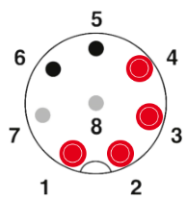
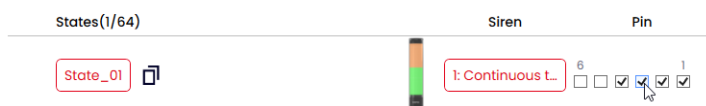
The individual signal effects are triggered via bit coding. The checkboxes in the **Pins** column correspond to the 6 pins or signal inputs. Selecting one or more checkboxes indicates that these pins or signal inputs must be triggered to enable the corresponding signal pattern.

Example:

Pins 1-4 must be triggered to enable the second signal pattern.



1. Select the pins of the 8-pin connector on which the signal to trigger the signal pattern is sent in the **Pins** column.



Modifying a pin configuration

If necessary, the assignment of the wire colour to the pin can be changed and a description of the signal added.

1. Click on **Configure Pins** under the pin overview.



→ The **Configure Pins** window appears.

	Wire Colour	Description
Pin 1: Input 1	WH	
Pin 2: Input 2	BN	
Pin 3: Input 3	GN	
Pin 4: Input 4	YE	
Pin 5: Input 5	GY	
Pin 6: Input 6	PK	
Pin 7: COM	BU	
Pin 8: +24V	RD	

Save

2. Enter the desired wire colour in the **Colour** column.
3. Enter the description of the signal in the **Description** column.
4. Click on **Save**.

4.5.4.4 Duplicating a signal pattern



Up to 64 signal patterns can be configured and transferred to an eSIGN.

A signal pattern consists of the individual optical settings of each segment and, if relevant, a signal tone.

1. Click on **Duplicate** in the line of the desired signal pattern.



2. Configure the signal pattern as described.

4.5.4.5 Adding a signal pattern



Up to 64 signal patterns can be configured and transferred to an eSIGN.

A signal pattern consists of the individual optical settings of each segment and, if relevant, a signal tone.

1. Click on **Add state**.



2. Configure the signal pattern as described.

4.5.4.6 Deleting a signal pattern

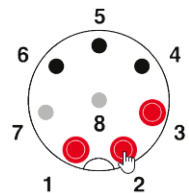
1. Click on **Delete** in the line of the desired signal pattern.



4.5.4.7 Simulating signal inputs

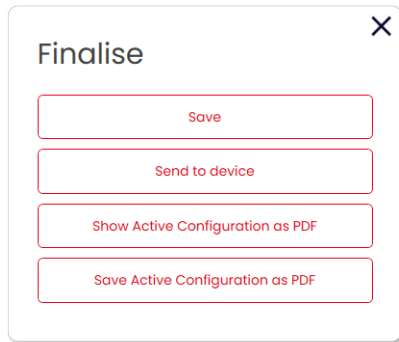
Once all settings have been made, the signal inputs can be simulated.

1. Click on the pin that enables the desired signal effect in the pin overview.



4.5.4.8 Finalising a configuration

1. Make additional changes to the configuration as required.
2. Once all signal effects are configured as desired, click on **Finalise**.
→ The **Finalise** window appears.

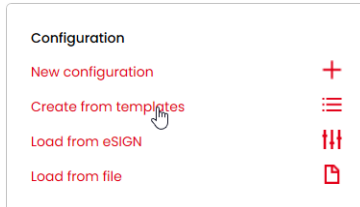


3. Click on **Save** to save the configuration in a configuration file.
4. Click on **Send to device** to transfer the configuration to the connected eSIGN.
5. Click on **Show Active Configuration as PDF** to display an overview of the current configuration.
6. Click on **Save Active Configuration as PDF** to save the overview of the current configuration as a PDF file.

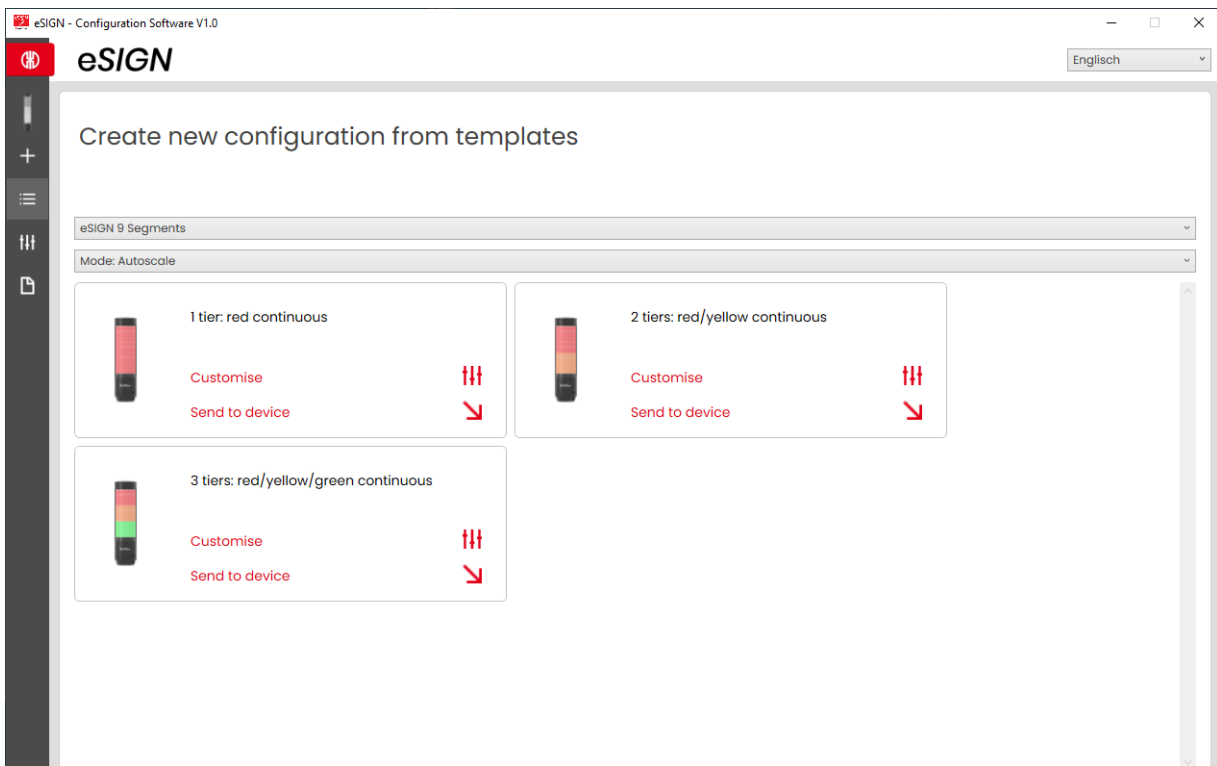
4.6 Creating a configuration from sample templates

The WERMA - Configuration Software provides several predefined configurations that can be transferred directly to a connected eSIGN or used as a basis for your own configurations.

1. Click on **Create from templates** in the **Configuration** area.



→ The **Create new configuration from templates** window appears.



2. Select the eSIGN variant.
3. Select the mode.
→ The available templates are displayed.
4. Click on **Customise** in the desired template to load and continue editing the template.
5. Click on **Send to device** to load the template and transfer it directly to the connected eSIGN.

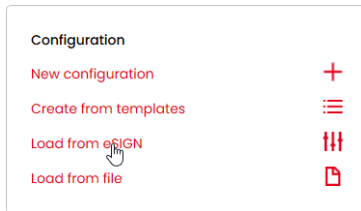


For more information on the configuration, see "Creating a new configuration", S. 121.

4.7 Loading the configuration of the connected eSIGN

If an eSIGN is connected to the computer, the WERMA - Configuration Software offers the option of opening the current configuration (for example the default setting) for editing. If no eSIGN is connected, this menu item is faded out.

1. Click on **Load from eSIGN** in the **Configuration** area.



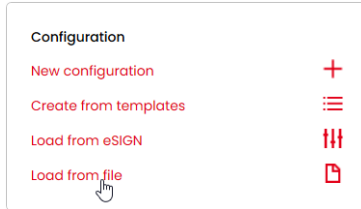
→ The **Configuration** window appears in the set mode and is already filled with the current configuration.



For more information on the configuration, see "Creating a new configuration", S. 121.

4.8 Opening configuration from file

1. Click on **Load from file** in the **Configuration** area.



2. Select the desired configuration and click on **Open**.



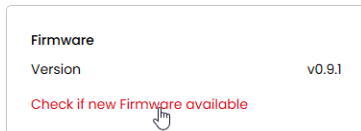
Alternatively, the last used configurations can be displayed via the page menu (see "Overview", S. 119).

4.9 Updating the firmware

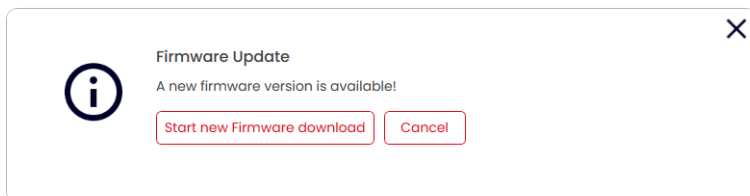


The computer must be connected to the Internet and an eSIGN to perform a firmware update.

1. Click on **Check if new Firmware available** in the **Firmware** area.



- The WERMA - Configuration Software checks for firmware updates for the connected eSIGN.
- A corresponding message appears if an update is found.



2. Click on **Start new Firmware download**.
 - The new firmware is transferred to the connected eSIGN.

5 Configuring the MC55 Touch Smart

5.1 Function

The new MC55 Touch Smart turns a multi-coloured status light into an interactive interface for operators. With the intuitive configuration software, it is easy to realise multiple signalling modes with different colours, light images and sounds as well as time-controlled escalations.

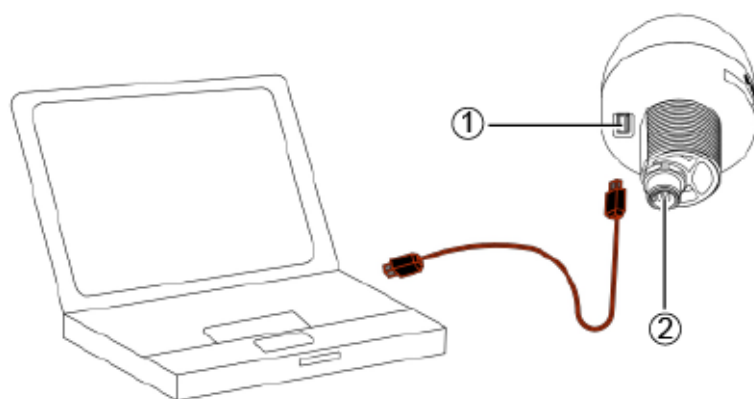
From the simple acknowledgement of an acoustic alarm, to the transmission of a 24 V signal and the mapping of process cycles using time-controlled escalations, the MC55 Touch Smart offers a wide range of possible applications.

5.2 Hardware description

The hardware information applies to the following part numbers:

- 240.160.55 MC55 Touch S 24 VDC
- 240.170.55 MC55 Touch S 24 VDC Acoustic

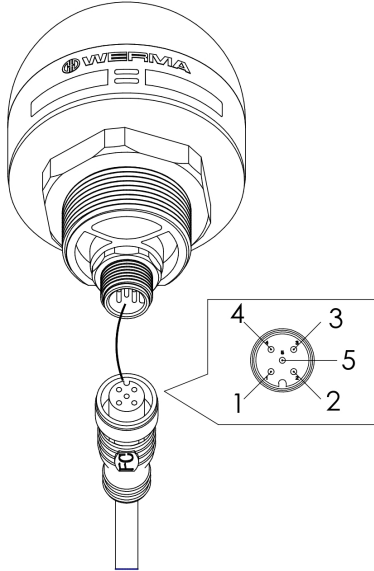
5.2.1 Overview of the connection area



Item	Description
1	USB-C connection
2	5-pin M12 connector

5.2.2 Overview of the 5-pin M12 connector

The MC55 Touch Smart is connected via an 5-pin M12 connector with the following assignment:

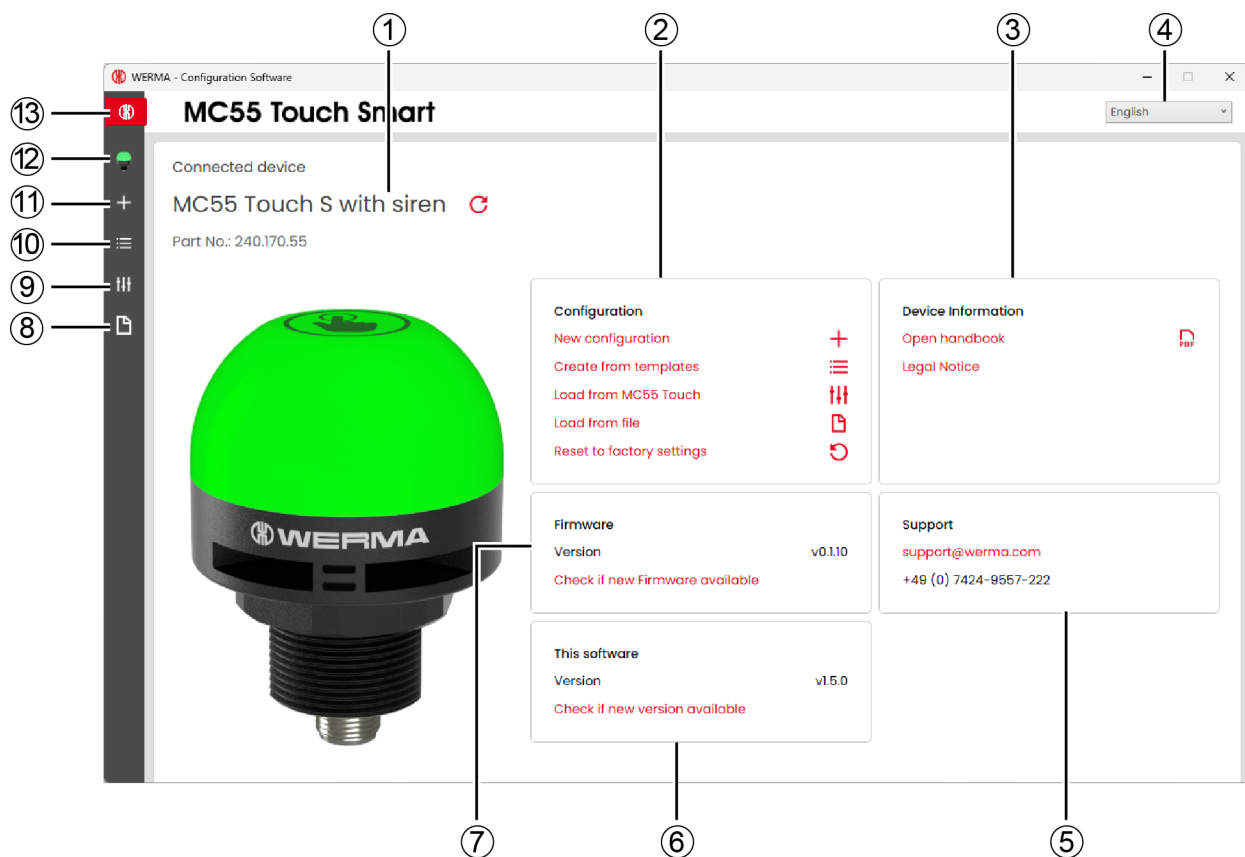


M12 pin assignment	Wire colour of M12 cable	Function
1	brown	Signal 1
2	white	Signal 2
3	blue	COM
4	black	Output 24 V; 200 mA
5	grey	Signal 3

5.2.3 Default setting

The MC55 Touch Smart is delivered as standard in Switch mode. When the touch input is enabled, 24 V is connected to the output.

5.3 Overview



Item	Description
1	Variant of the connected MC55 Touch Smart
2	Configuration area
3	Device Information area
4	Setting the language
5	Support area
6	This software area
7	Firmware area
8	Opening configuration from file
9	Editing existing configuration
10	Creating a configuration from sample templates
11	Creating a new configuration
12	Opening the start screen
13	Device selection <i>SIGN</i> , MC55 Touch Smart, MC55 High Smart, MC55 Smart

5.3.1 Configuration area

The following options for creating a configuration are available in the **Configuration** area:

- **New configuration:** Create a new configuration (see "Creating a new configuration", S. 174).
- **Create from templates:** Open standard templates that can be transferred to the device immediately (see "Creating a configuration from sample templates", S. 187).
- **Load from MC55 Touch:** Open the current configuration (for example the default setting) for editing (see "Loading the configuration of the connected MC55 Touch Smart", S. 189).
- **Load from file:** Open and reuse an existing configuration (see "Opening configuration from file", S. 190).
- **Reset to factory settings:** Reset connected MC55 Touch Smart to factory settings (see "Resetting to factory settings", S. 190).

5.3.2 Device Information area

The manual and legal information can be opened in the **Device Information** area.

5.3.3 Support area

The **Support** area displays the contact information of the WERMA support team.

5.3.4 This software area

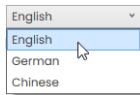
The **This software** area displays information about the version status of the WERMA - Configuration Software and offers a possibility to update the configuration software.

5.3.5 Firmware area

The **Firmware** area displays information about the firmware of the connected MC55 Touch Smart and offers a possibility to update the firmware.

5.4 Setting the language

1. Select the desired language in the selection menu.



5.5 Creating a new configuration

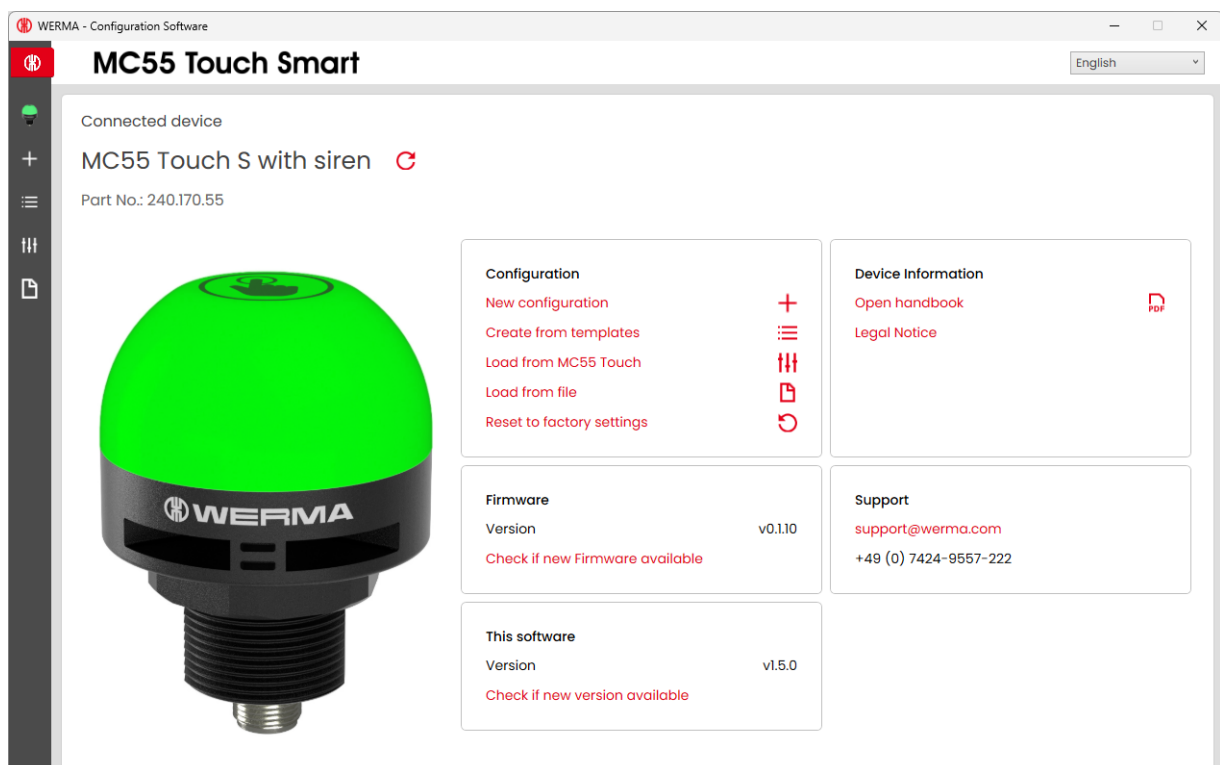


The configuration can be performed with or without a connected MC55 Touch Smart.



The MC55 Touch Smart can be connected simultaneously to a computer via the USB cable and to the 24 V power supply via the M12 cable.

1. Use the USB cable to connect the MC55 Touch Smart to the computer.
→ The WERMA - Configuration Software detects the connected MC55 Touch Smart.

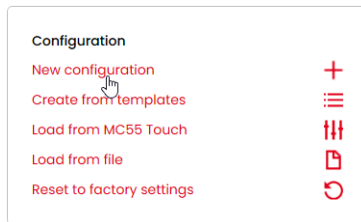


2. If the WERMA - Configuration Software does not detect the connected MC55 Touch Smart: Click on **Refresh connected device**.

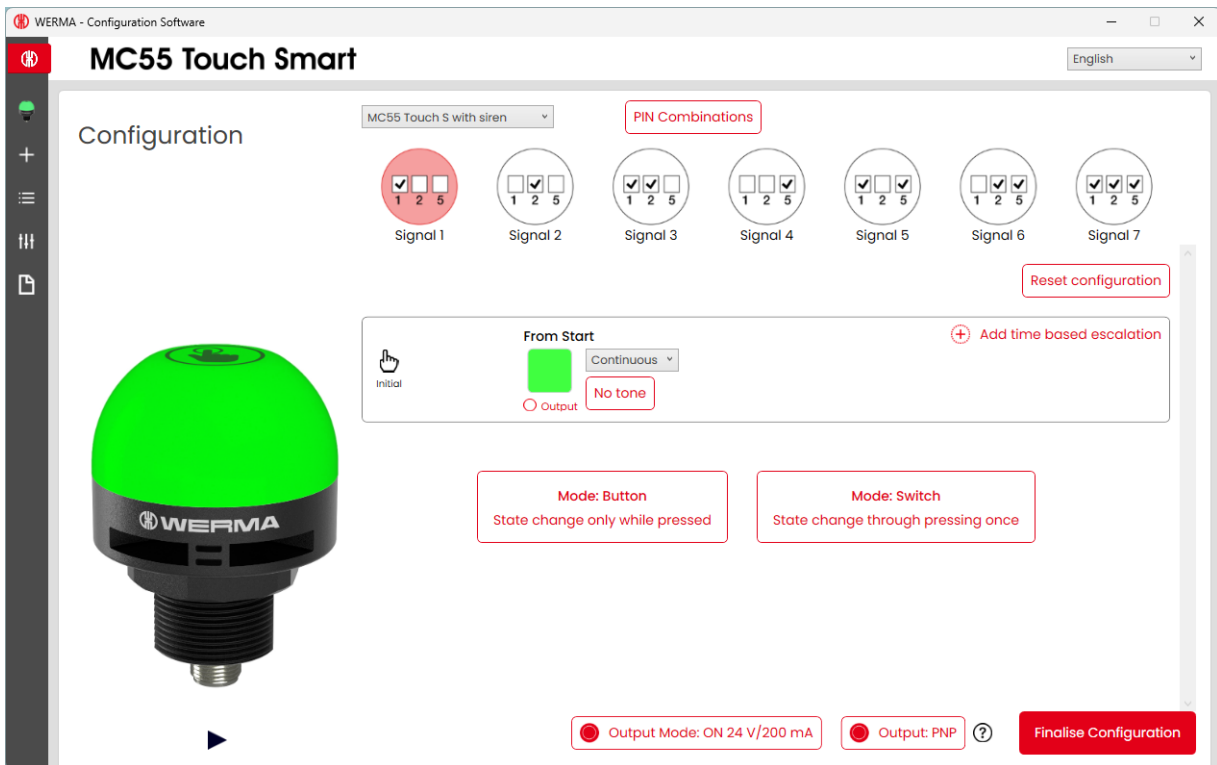
No Device connected

5 Configuring the MC55 Touch Smart

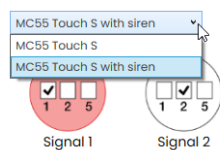
- Click on **New configuration** in the **Configuration** area.



→ The **Configuration** screen appears.



- If necessary, select the variant of the MC55 Touch Smart to be configured.

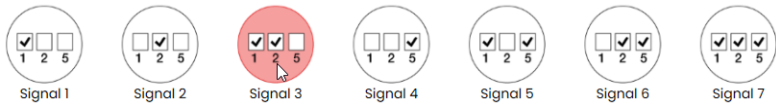


- Select **Mode: Switch** or **Mode: Button**.

5.5.1 Selecting a signal input

Each signal input can be configured separately. The icons show the corresponding PIN assignment.

1. Click on the desired signal input.



5.5.1.1 Renaming a signal input

If necessary, the signal inputs can be renamed and supplemented with a description.

1. Click on **PIN Combinations** above the overview of the input signals.



PIN Combinations

	Shortname	Description
Signal 1: 001	Signal 1	
Signal 2: 010	Signal 2	
Signal 3: 011	Signal 3	
Signal 4: 100	Signal 4	
Signal 5: 101	Signal 5	
Signal 6: 110	Signal 6	
Signal 7: 111	Signal 7	

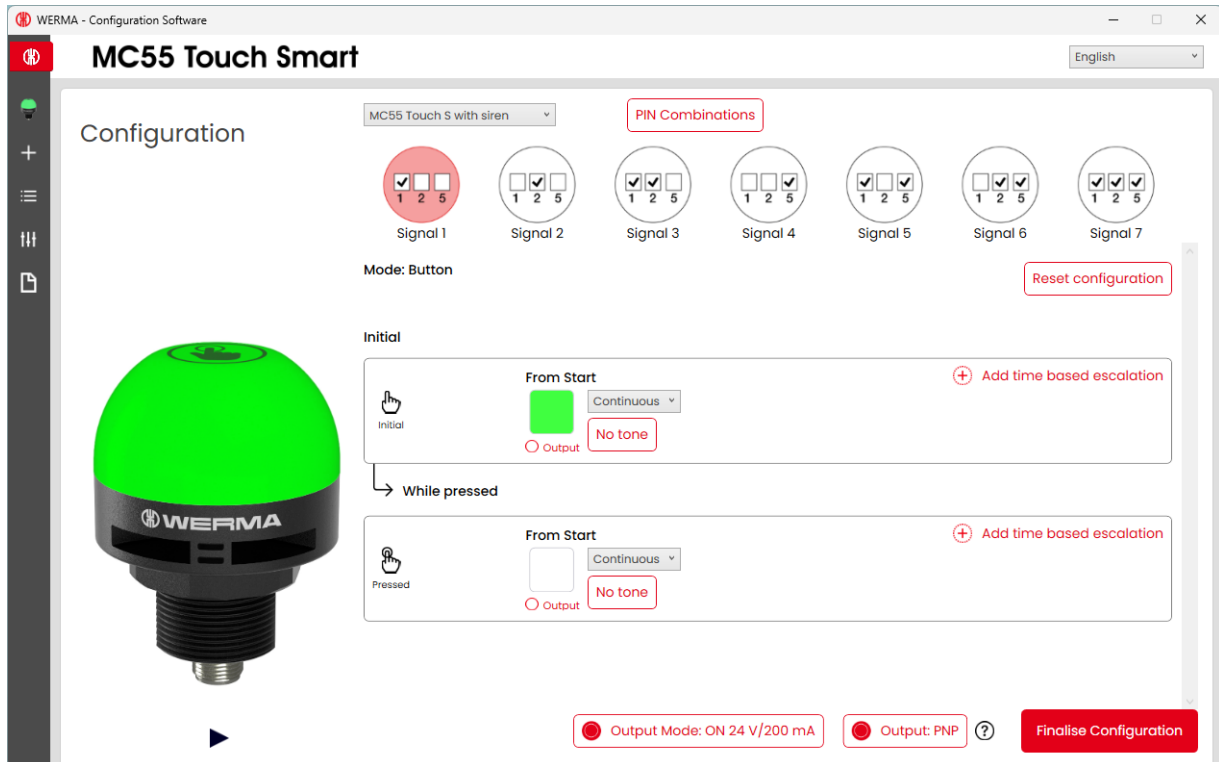
Save

- 2. Enter the desired description in the **Shortname** column.
- 3. Enter the description of the signal in the **Description** column.
- 4. Click on **Save**.

5.5.2 Changing the mode

The **Button** mode and **Switch** mode can be selected retrospectively for each signal input.

5.5.2.1 Mode Button

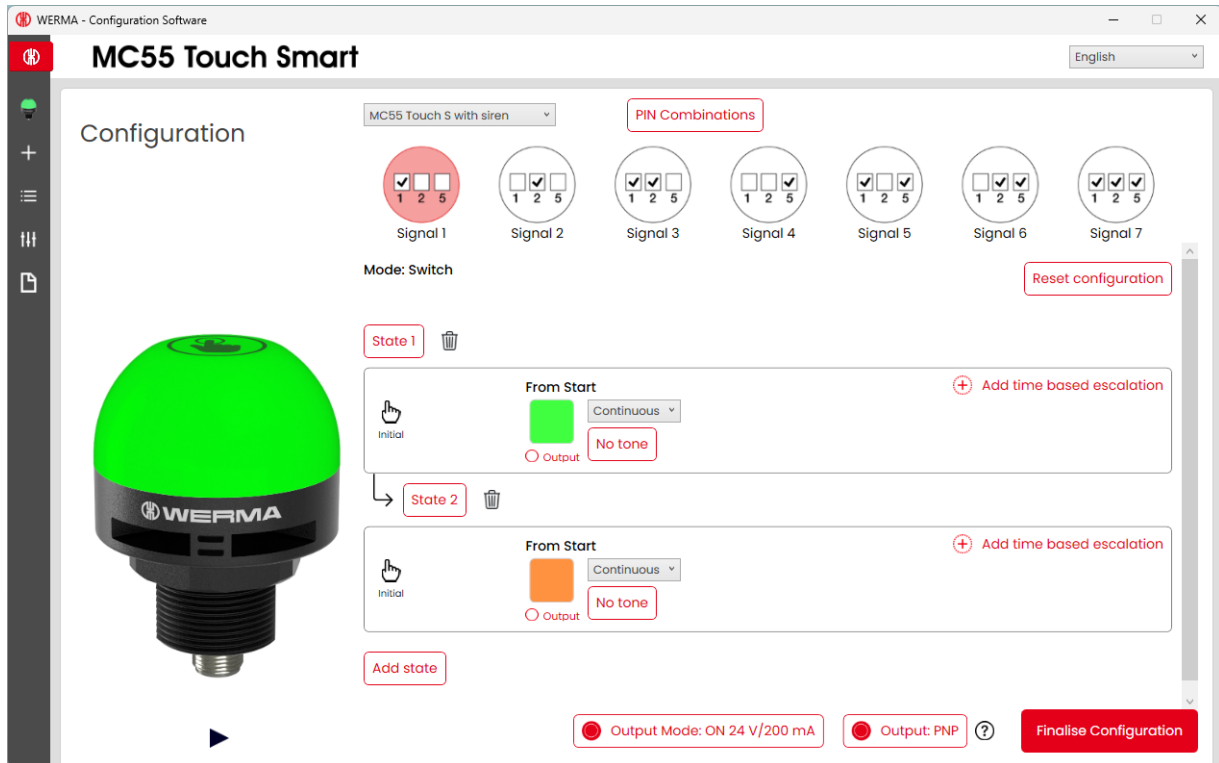


2 states can be configured in **Button** mode.

- Initial: Is active when current is present at the corresponding signal input and the MC55 Touch Smart is not pressed.
- Pressed: Is active when MC55 Touch Smart is pressed and kept pressed.
- As soon as the MC55 Touch Smart is no longer pressed, the initial state is active again.

For each state, the settings for the colour, the light pattern, the siren (if available), the time-based escalation and the output can be modified.

5.5.2.2 Mode Switch



A maximum of 10 states can be configured in **Switch** mode. The next state is enabled each time you press the MC55 Touch Smart.

In **Switch** mode, the MC55 Touch Smart lights up white briefly when switching between states to provide feedback for detecting the touch input.

For each state, the settings for the colour, the light pattern, the siren (if available), the time-based escalation and the output can be modified.

i MC55 Touch Smart is delivered as standard in switch mode. When the touch input is enabled, 24 V is connected to the output.

1. Click on **Reset configuration** in the desired signal input.



2. Select **Mode: Button** or **Mode: Switch**.



5.5.3 Modifying states

States can only be added, deleted or renamed in **Switch** mode. The two possible states are specified in **Button** mode.

5.5.3.1 Adding a state

1. Click on **Add state**.



5.5.3.2 Removing a state

1. Click on  next to the state to be removed (e.g. **State 3**).



5.5.3.3 Renaming a state

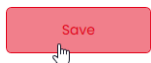
1. Click on the state (e.g. **State 1**).
→ The **State 1** window appears.

State 1

Description

Save

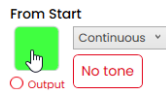
2. Enter the desired description of the state in the **Description** field.
3. Click on **Save**.



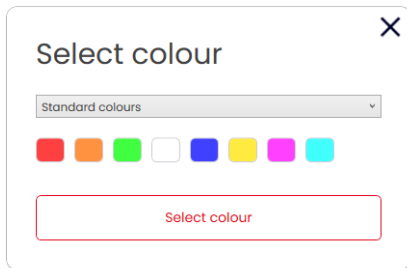
5.5.4 Selecting a colour

A standard colour or individual colour can be assigned to every tier.

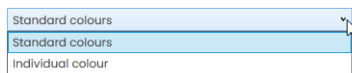
1. Click on the colour field in the **Colour** column.



→ The **Select colour** window appears.



2. Select whether to use a standard colour or an individual colour.



5.5.4.1 Standard colour

3. Click on the desired colour field.

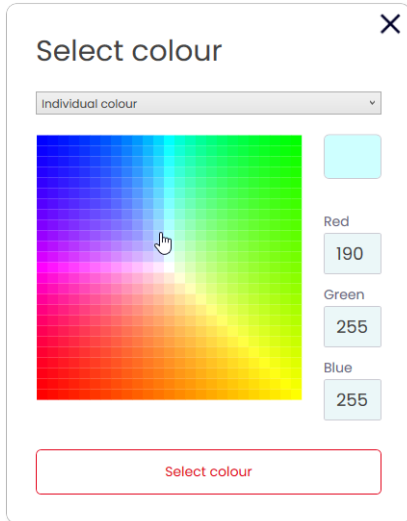


The following 8 standard colours are available:

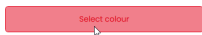
- red
- yellow
- green
- white
- blue
- light yellow
- magenta
- turquoise

5.5.4.2 Individual colour

4. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.

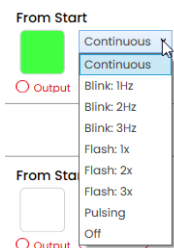


5. Click on **Select colour**.



5.5.5 Selecting a light pattern

1. Click on the selection menu next to the colour field and select the desired light effect.



The following 8 light effects are available:

- Continuous light
- Blinking 1 Hz
- Blinking 2 Hz
- Blinking 3 Hz
- Flashing 1x
- Flashing 2x
- Flashing 3x
- Pulsing
- Off



The setting **Off** can be selected if the pin assignment is to be used only for sound or for continuous power supply.

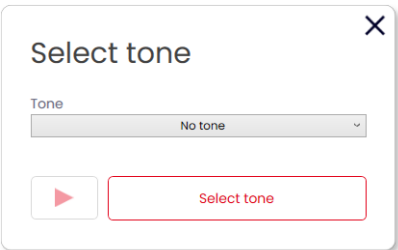
5.5.6 Selecting a siren

If the connected or selected MC55 Touch Smart has a siren, you can select a signal tone that will sound when the state is enabled.

1. Click on **No tone** in the desired state.

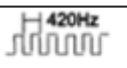
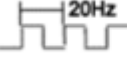
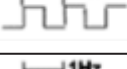
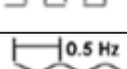


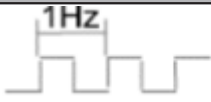
→ The **Select tone** window appears.



2. Select the desired **Tone**.

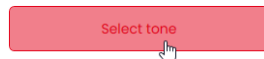
The following 10 tones are available:

Sound	Frequency	Description	Max. dB (A)
1	 3.8 kHz	Continuous tone	86
2	 0.9 kHz	Continuous tone	70
3	 2.1 kHz	Pulse tone	67
4	 0.9 kHz	Pulse tone	68
5	 2.65 kHz	Pulse tone	66
6	 0.9 kHz	Pulse tone	70
7	 3.8 kHz	Pulse tone	87
8	 2.3 kHz - 3.6 kHz	Sweep tone	89
9	 2.65 kHz	Continuous tone	67

Sound	Frequency	Description	Max. dB (A)
10	 1.2 kHz - 0.8 kHz	Alternating tone	78

 The selected sound can be tested with button ► in the selection of tones. The sound is then played by the computer.

3. Click on **Select tone**.



5.5.7 Modifying a time-based escalation

A maximum of two time-based escalations can be configured for each state in **Switch** mode or **Button** mode.

Once a time-based escalation has been configured, the next escalation is enabled after the set time has elapsed.

For each escalation, the time, the light image, the colour, the siren (if available) and the output can be configured.

5.5.7.1 Adding a time-based escalation

1. Click on **Add time based escalation**.

 Add time based escalation

→ An escalation level has been added.



2. Click on **after 10 s**.

→ The **After 10 s** window appears.

After 10s

Time to escalation (s)

10

Value: 0.1 to 3,600 seconds

Save

3. Enter the number of seconds after which the escalation level should start in the **Time to escalation (s)** field.

4. Click on **Save**.



5. Modify other properties (colour, light pattern, output, sound) of the escalation level as required.
6. If necessary, add another escalation level by clicking on .

5.5.7.2 Removing a time-based escalation

If necessary, the last escalation level can be removed.

1. Click on **Delete** in the last escalation level.



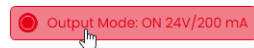
5.5.8 Enabling the output

The digital 24 V output of the MC55 Touch Smart can be enabled for each state and each individual escalation level.

1. Enable the **Output** option in the desired state or escalation level.



2. If necessary, switch between **Output Mode: ON 24 V/200 mA** and **Output Mode: PULSE 24 V/200 mA**.



i In **Pulse** mode, a pulse of at least 100 ms is applied to the output.

3. If necessary, switch between **Output: PNP** and **Output: NPN**.

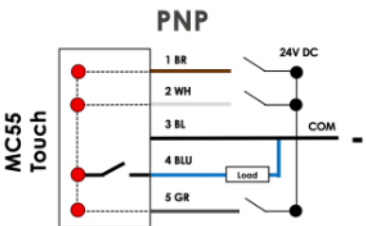
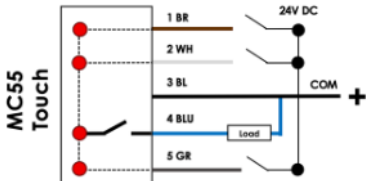


Note

Damage to the MC55 Touch Smart

The MC55 Touch Smart can be damaged if the output is incorrectly configured.

1. Make sure that the output of the MC55 Touch Smart is configured to match the connected device or machine.

Switching	Description	
PNP		– Positive switching – Positive load is connected to the output.
NPN		– Negative switching – Negative load is connected to the output.

5.5.9 Simulating signal inputs

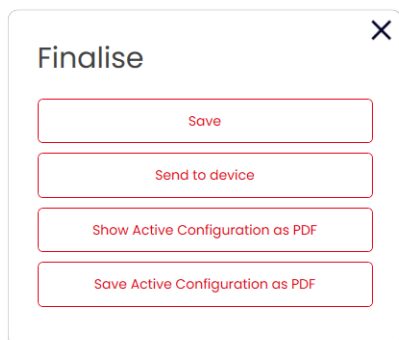
Once all settings have been made, the signal inputs can be simulated.

The simulation shows the light effects, time-based escalations, the output and the sound output by means of a symbol.

1. Click on ► below the image of the MC55 Touch Smart.
→ The image of the MC55 Touch Smart shows the initial state and, if configured, the escalation levels after the corresponding time has elapsed.
2. Click on **Touch button** to simulate pressing the MC55 Touch Smart.
3. The image of the MC55 Touch Smart shows the configured behaviour.
4. Click on ■ below the image of the MC55 Touch Smart to stop the simulation.

5.5.10 Finalising a configuration

1. Make additional changes to the configuration as required.
2. Once all tiers are configured as desired, click on **Finalise**.
→ The **Finalise** window appears.



3. Click on **Save** to save the configuration in a configuration file.
4. Click on **Send to device** to transfer the configuration to the connected MC55 Touch Smart.
5. Click on **Show Active Configuration as PDF** to display an overview of the current configuration.
6. Click on **Save Active Configuration as PDF** to save the overview of the current configuration as a PDF file.

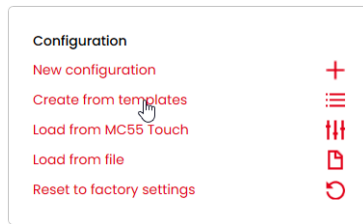
5.6 Creating a configuration from sample templates

The WERMA - Configuration Software provides several predefined configurations that can be transferred directly to a connected MC55 Touch Smart or used as a basis for your own configurations.

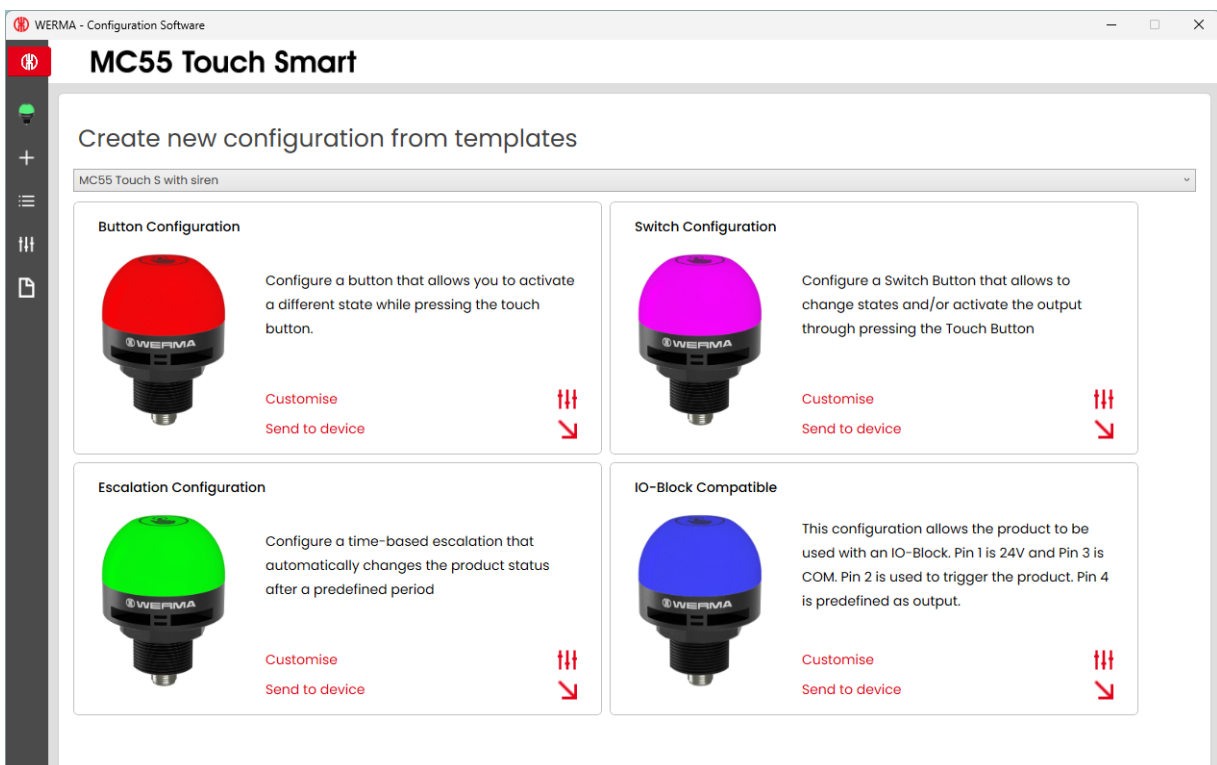
The following templates are available:

Template	Description
Button Configuration	– The MC55 Touch Smart is configured as a button. – A different state and the output are enabled in "On" mode as long as the MC55 Touch Smart is kept pressed. – A different colour is used for each signal input. Possible application: – Another device should only be enabled while pressing on the MC55 Touch Smart.
Switch Configuration	– The MC55 Touch Smart is configured as a switch. – A different state and the output are enabled in "On" mode when pressing on the MC55 Touch Smart. – A different colour is used for each signal input. – A maximum of 10 states can be created for each signal input. Possible application: – Give feedback to a control using the pulse output and in doing so switch the state of the MC55 Touch Smart or switch another device on/off.
Time-based escalation configuration	– The MC55 Touch Smart is configured as a button. – After 60 seconds, the MC55 Touch Smart flashes red and the output is enabled in "On" mode. – A maximum of 2 time-based escalations per state can be configured. Possible application: – If an error is not acknowledged after a certain time, a sound output can be connected to it and acknowledged again by pressing the MC55 Touch Smart. – Visualise time-critical work steps by changing the light pattern.
IO-Block Compatible	– The MC55 Touch Smart is configured as a switch. Possible application: – IO block – Signal input 1 is 24 V. – Signal input 3 is COM. – Signal inputs 2 and 4 indicate different colours.

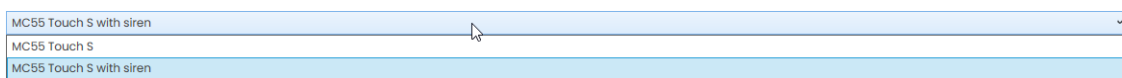
1. Click on **Create from templates** in the **Configuration** area.



→ The **Create new configuration from templates** window appears.



2. Select the variant of the MC55 Touch Smart.



5 Configuring the MC55 Touch Smart

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3. Click on **Customise** in the desired template to load and continue editing the template.
4. Click on **Send to device** to load the template and transfer it directly to the connected MC55 Touch Smart.

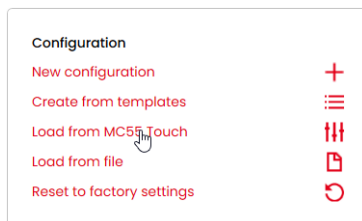


For more information on the configuration, see "Creating a new configuration", S. 174.

5.7 Loading the configuration of the connected MC55 Touch Smart

If an MC55 Touch Smart is connected to the computer, the WERMA - Configuration Software offers the option of opening the current configuration (for example the default setting) for editing. If no MC55 Touch Smart is connected, this menu item is faded out.

1. Click on **Load from MC55 Touch** in the **Configuration** area.



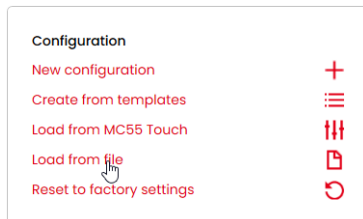
→ The **Configuration** window appears in the set mode and is already filled with the current configuration.



For more information on the configuration, see "Creating a new configuration", S. 174.

5.8 Opening configuration from file

1. Click on **Load from file** in the **Configuration** area.



2. Select the desired configuration and click on **Open**.

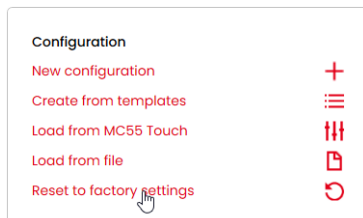


Alternatively, the last used configurations can be displayed via the page menu (see "Overview", S. 172).

5.9 Resetting to factory settings

If necessary, the MC55 Touch Smart can be reset to the factory settings.

1. Click on **Reset to factory settings**.



→ The MC55 Touch Smart is reset to factory settings.

5.10 Updating the firmware

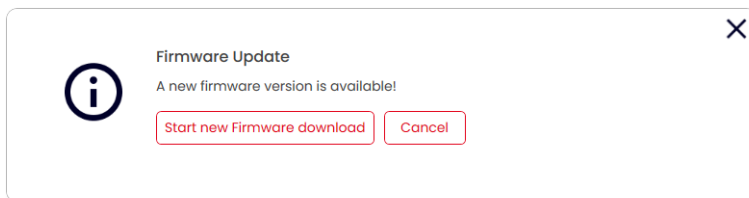


The computer must be connected to the Internet and an MC55 Touch Smart to perform a firmware update.

1. Click on **Check if new Firmware available** in the **Firmware** area.



- The WERMA - Configuration Software checks for firmware updates for the connected MC55 Touch Smart.
- A corresponding message appears if an update is found.



2. Click on **Start new Firmware download**.
 - The new firmware is transferred to the connected MC55 Touch Smart.

6 Configuring the MC55 Smart and MC55 High Smart



The configuration of the MC55 Smart and MC55 High Smart variants is carried out in the same way. The configuration is described below using the MC55 Smart variant as an example.

6.1 Function

The MC55 Smart provides clear, easily recognisable LED signals in a compact housing. It can be easily integrated and is suitable for a wide range of applications where reliable status indication is required.

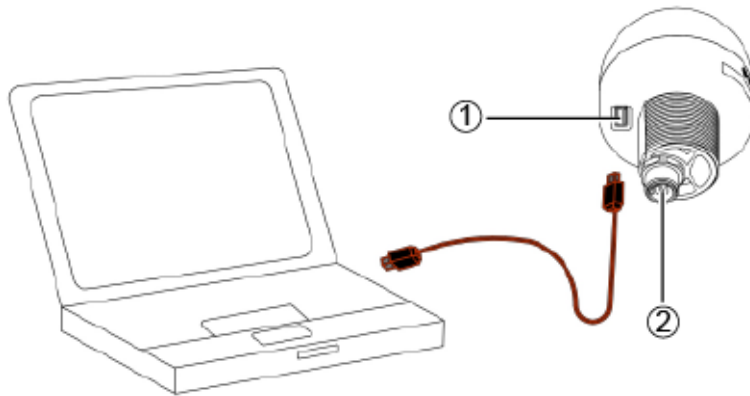
Pin 4 of the MC55 Smart can be used as both an input and an output. By default, pin 4 is configured as an input. This makes it possible to implement small logic functions with the MC55 Smart.

6.2 Hardware description

The hardware information applies to the following part numbers:

- 240.520.00 Smart
- 240.520.01 Smart + acoustic signal
- 240.620.00 MC55 High S Light 24V for tube mounting
- 240.620.01 - MC55 High S Light + acoustic signal 24 V for tube mounting

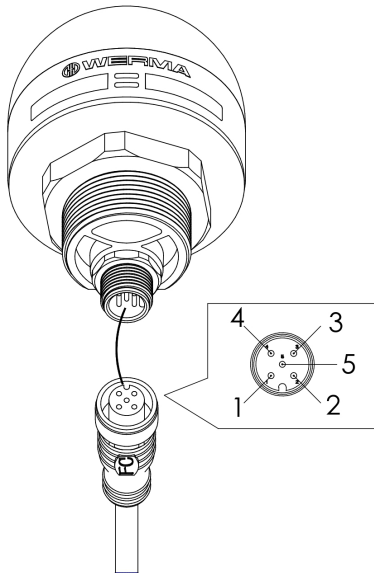
6.2.1 Overview of the connection area



Item	Description
1	USB-C connection
2	5-pin M12 connector

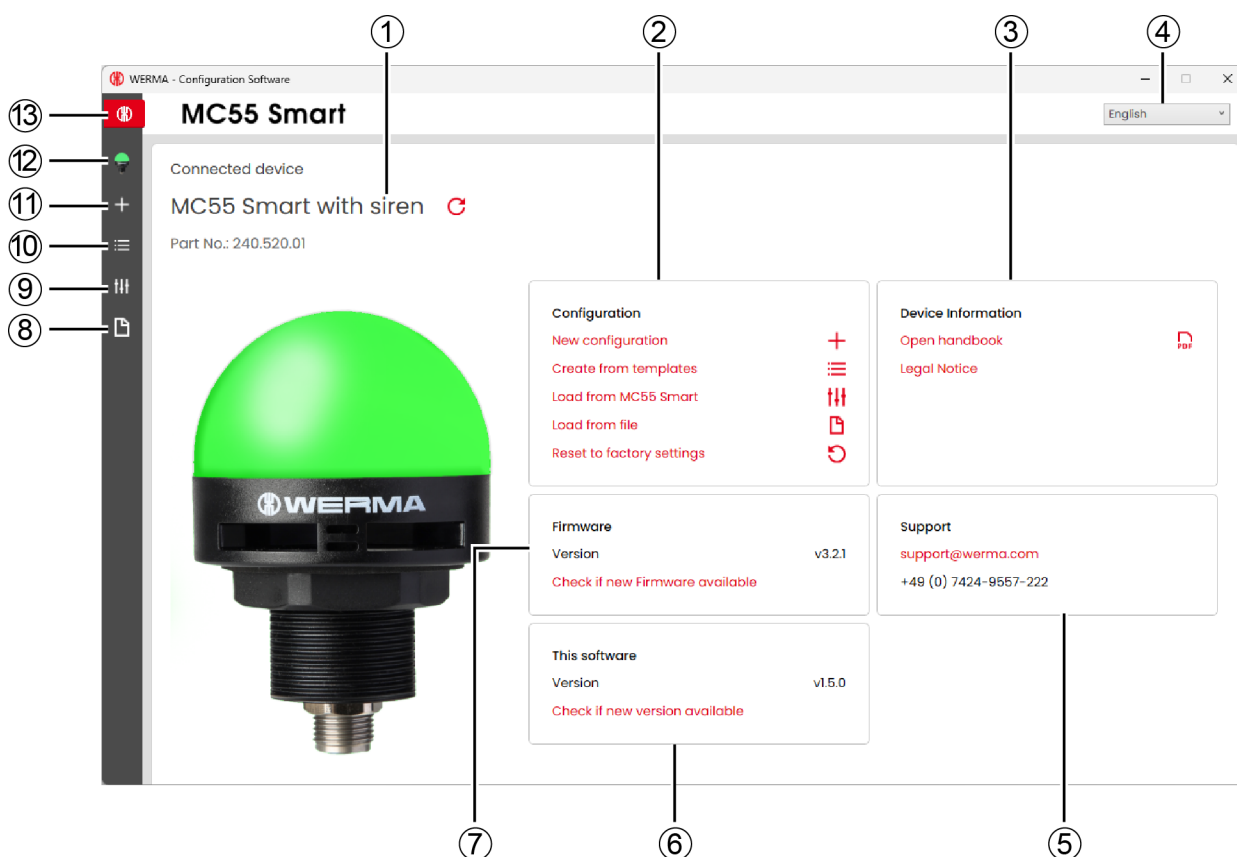
6.2.2 Overview of the 5-pin M12 connector

The MC55 Smart is connected via an 5-pin M12 connector with the following assignment:



M12 pin assignment	Wire colour of M12 cable	Function
1	brown	Signal 1
2	white	Signal 2
3	blue	COM
4	black	Input or output 24 V; 200 mA
5	grey	Signal 3

6.3 Overview



Item	Description
1	Variant of the connected MC55 Smart
2	Configuration area
3	Device Information area
4	Setting the language
5	Support area
6	This software area
7	Firmware area
8	Opening configuration from file
9	Editing existing configuration
10	Creating a configuration from sample templates
11	Creating a new configuration
12	Opening the start screen
13	Device selection <i>SIGN</i> , MC55 Touch Smart, MC55 High Smart, MC55 Smart

6.3.1 Configuration area

The following options for creating a configuration are available in the **Configuration** area:

- **New configuration:** Create a new configuration (see "Creating a new configuration", S. 196).
- **Create from templates:** Open standard templates that can be transferred to the device immediately (see "Creating a configuration from sample templates", S. 206).
- **Load from MC55 Smart:** Open the current configuration (for example, the default setting) for editing (see "Loading the configuration of the connected MC55 Smart", S. 207).
- **Load from file:** Open and reuse an existing configuration (see "Opening configuration from file", S. 208).
- **Reset to factory settings:** Reset connected MC55 Smart to factory settings (see "Resetting to factory settings", S. 208).

6.3.2 Device Information area

The manual and legal information can be opened in the **Device Information** area.

6.3.3 Support area

The **Support** area displays the contact information of the WERMA support team.

6.3.4 This software area

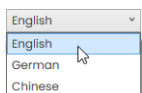
The **This software** area displays information about the version status of the WERMA - Configuration Software and offers a possibility to update the configuration software.

6.3.5 Firmware area

The **Firmware** area displays information about the firmware of the connected MC55 Smart and offers a possibility to update the firmware.

6.4 Setting the language

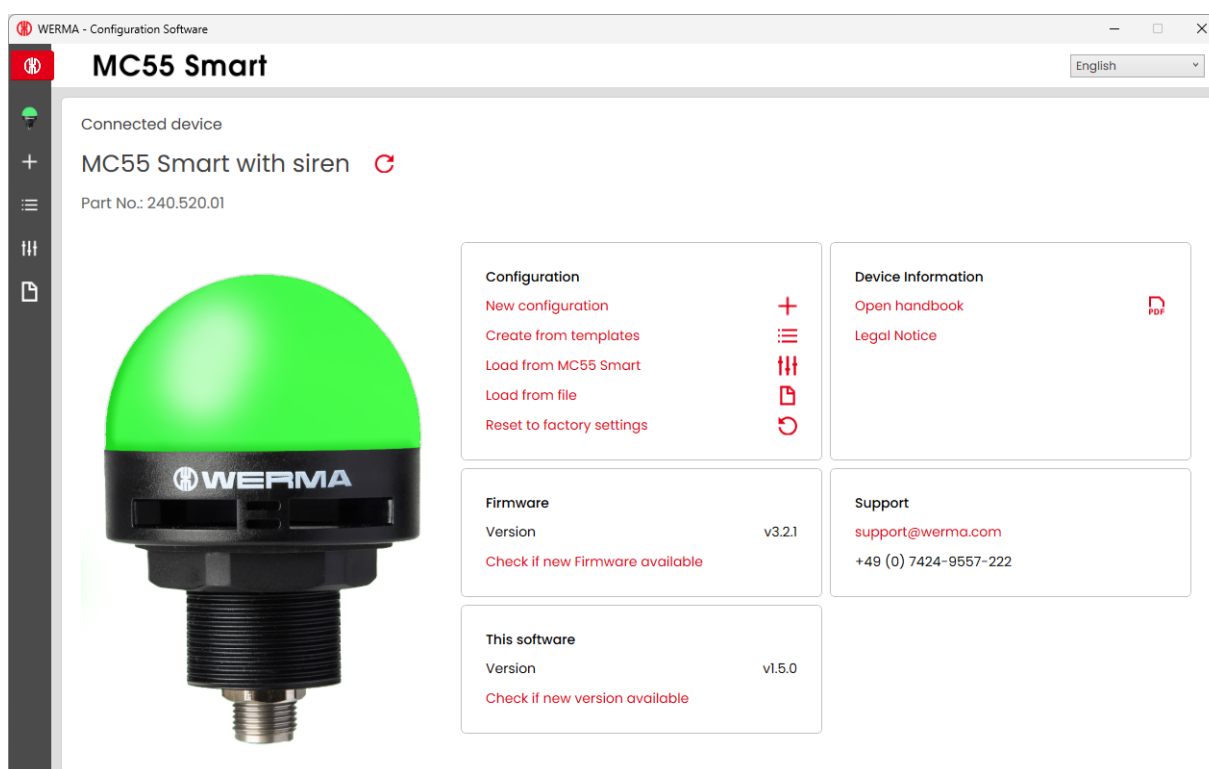
1. Select the desired language in the selection menu.



6.5 Creating a new configuration

-  The configuration can be performed with or without a connected MC55 Smart.
-  The MC55 Smart can be connected simultaneously to a computer via the USB cable and to the 24 V power supply via the M12 cable.

1. Use the USB cable to connect the MC55 Smart to the computer.
→ The WERMA - Configuration Software detects the connected MC55 Smart.

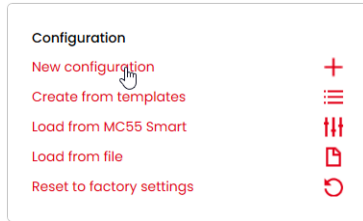


2. If the WERMA - Configuration Software does not detect the connected MC55 Smart: Click on **Refresh connected device**.

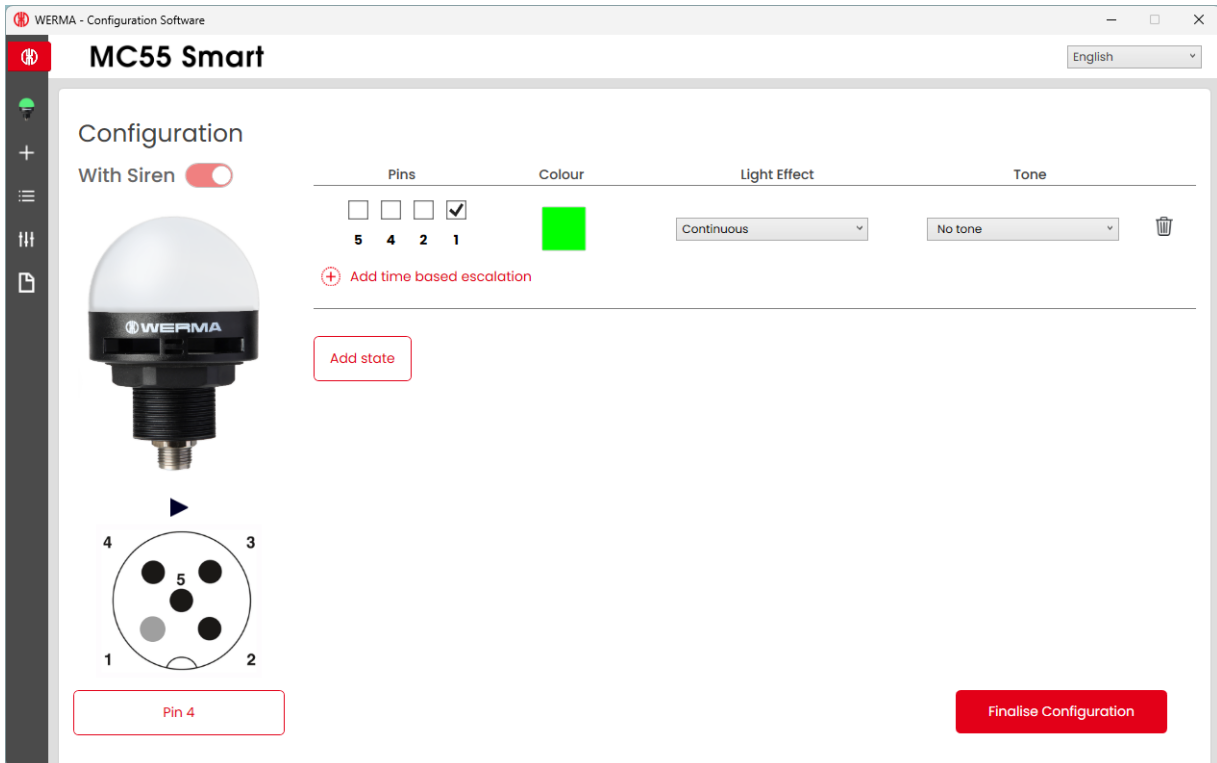
No Device connected 

6 Configuring the MC55 Smart and MC55 High Smart

3. Click on **New configuration** in the **Configuration** area.



→ The **Configuration** screen appears.



6.5.1 Selecting a colour

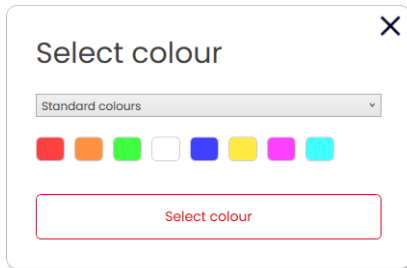
A standard colour or individual colour can be assigned to every state.

1. Click on the colour field in the **Colour** column.

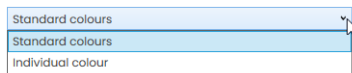
Colour



→ The **Select colour** window appears.



2. Select whether to use a standard colour or an individual colour.



6.5.1.1 Standard colour

3. Click on the desired colour field.

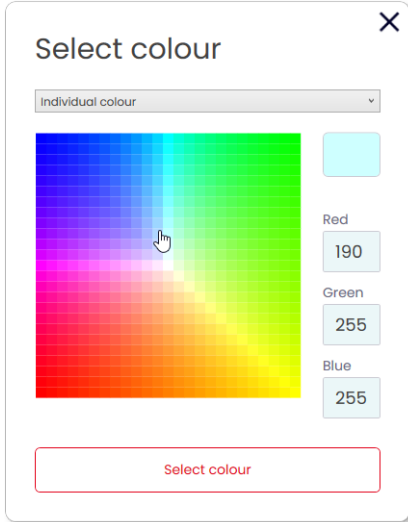


The following 8 standard colours are available:

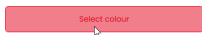
- red
- yellow
- green
- white
- blue
- light yellow
- magenta
- turquoise

6.5.1.2 Individual colour

4. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.

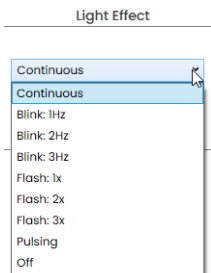


5. Click on **Select colour**.



6.5.2 Selecting a light pattern

1. Click on the selection menu next to the colour field and select the desired light effect.



The following 8 light effects are available:

- Continuous light
- Blinking 1 Hz
- Blinking 2 Hz
- Blinking 3 Hz
- Flashing 1x
- Flashing 2x
- Flashing 3x
- Pulsing
- Off



The setting **Off** can be selected if the pin assignment is to be used only for sound or for continuous power supply.

6.5.3 Selecting a siren

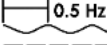
If the connected or selected MC55 Smart has a siren, you can select a signal tone that will sound when the state is enabled.

1. Activate the **With Siren** option.

With Siren 

2. In the **Tone** column, click on the selection menu and select the desired tone.

The following 10 tones are available:

Sound	Frequency	Description	Max. dB (A)
1	 2.7 kHz	Continuous tone	86
2	 0.9 kHz	Continuous tone	70
3	 2.1 kHz	Pulse tone	67
4	 0.9 kHz	Pulse tone	68
5	 3.5 kHz	Pulse tone	66
6	 0.9 kHz	Pulse tone	70
7	 2.7 kHz	Pulse tone	87
8	 2.3 kHz – 3.6 kHz	Sweep tone	89
9	 3.5 kHz	Continuous tone	67
10	 1.2 kHz – 0.8 kHz	Alternating tone	78

6.5.4 Modifying a time-based escalation

A maximum of two time-based escalations can be configured for each state.

Once a time-based escalation has been configured, the next escalation is enabled after the set time has elapsed.

For each escalation, the time, the light image, the colour, the siren (if available) and the output can be configured.

6.5.4.1 Adding a time-based escalation

1. Click on **Add time based escalation**.

 Add time based escalation

→ An escalation level has been added.

Continuous

No tone

☐



 Add time based escalation

2. Click in the **00:00** field and enter the duration of the escalation level.
3. Modify other properties (colour, light pattern, output, sound) of the escalation level as required.



The maximum duration of an escalation level is 60 minutes.

6.5.4.2 Removing a time-based escalation

If necessary, the last escalation level can be removed.

1. Click on **Delete** in the last escalation level.



6.5.5 Removing a state

1. Click on **Add state**.



6.5.6 Removing a state

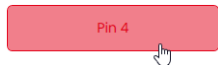
1. Click on **Delete** next to the state to be removed.



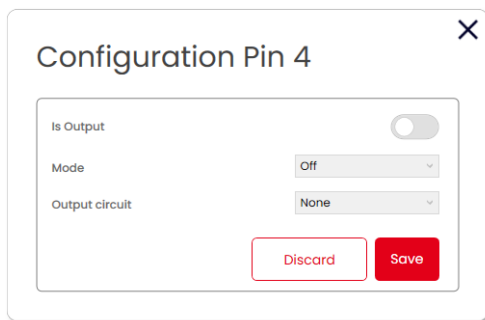
6.5.7 Enabling the output

The digital 24 V output (pin 4) of the MC55 Smart can be enabled for each state and each individual escalation level. By default, pin 4 is configured as an input.

1. Click on **Pin 4**.



→ The **Configuration Pin 4** screen appears.



2. Activate the **Is Output** option.
3. Select **Mode** and **Output circuit**.



In **Pulse** mode, a pulse of at least 100 ms is applied to the output.



Note

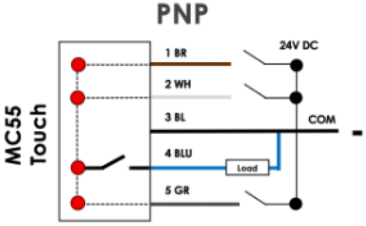
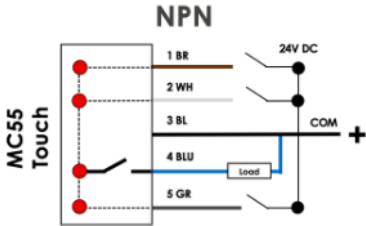
Damage to the MC55 Smart or MC55 High Smart

The MC55 Smart or MC55 High Smart can be damaged if the output is incorrectly configured.

1. Make sure that the output of the MC55 Smart or MC55 High Smart is configured to match the connected device or machine.

6 Configuring the MC55 Smart and MC55 High Smart

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Switching	Description	
PNP		– Positive switching – Positive load is connected to the output.
NPN		– Negative switching – Negative load is connected to the output.

2. Click on **Save**.



3. Enable the **Output** option in the desired state or escalation level.

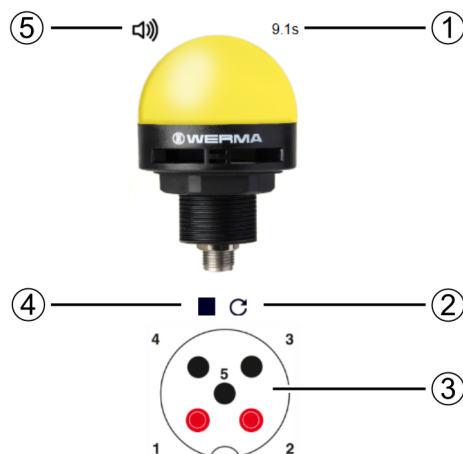
Pins	Colour	Light Effect	Tone	Output
☐ 5 ☐ 2 ☒ 1		Continuous	No tone	☒

 Add time based escalation

6.5.8 Simulating signal inputs

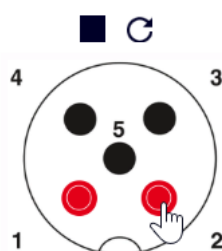
Once all settings have been made, the signal inputs can be simulated.

The simulation shows the light effects, time-based escalations, and the behaviour of the output (pin 4). Signal tones are not played back but are represented by a symbol.



Item	Description
1	Elapsed time of a time-based escalation
2	Restart time-based escalation
3	Pins of the M12 connector
4	▶ Start simulation ■ End simulation
5	🔊 No acoustic signal is emitted 🔊 Acoustic signal is emitted

1. Click on ▶ below the image of the MC55 Smart.
→ The image of the MC55 Smart shows the initial state and, if configured, the time-based escalations after the corresponding time has elapsed.
2. Click on one or more pins in the illustration of the M12 connector.

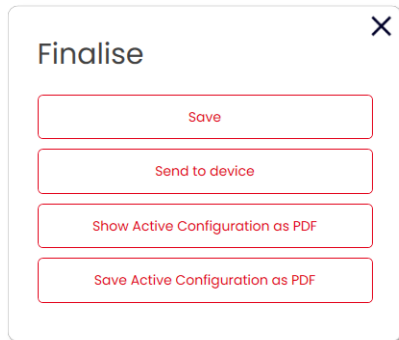


- The simulation shows the configured behaviour of the MC55 Smart when a signal is present at the selected pins.
- If configured, the time-based escalations are displayed once the set time has elapsed.

3. Click on ■ below the image of the MC55 Smart to stop the simulation.

6.5.9 Finalising a configuration

1. Make additional changes to the configuration as required.
2. Once all tiers are configured as desired, click on **Finalise**.
→ The **Finalise** window appears.



3. Click on **Save** to save the configuration in a configuration file.
4. Click on **Send to device** to transfer the configuration to the connected MC55 Smart.
5. Click on **Show Active Configuration as PDF** to display an overview of the current configuration.
6. Click on **Save Active Configuration as PDF** to save the overview of the current configuration as a PDF file.

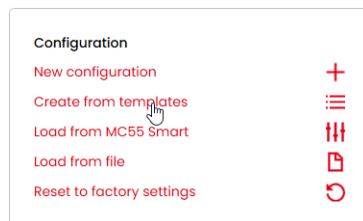
6.6 Creating a configuration from sample templates

The WERMA - Configuration Software provides several predefined configurations that can be transferred directly to a connected MC55 Smart or used as a basis for your own configurations.

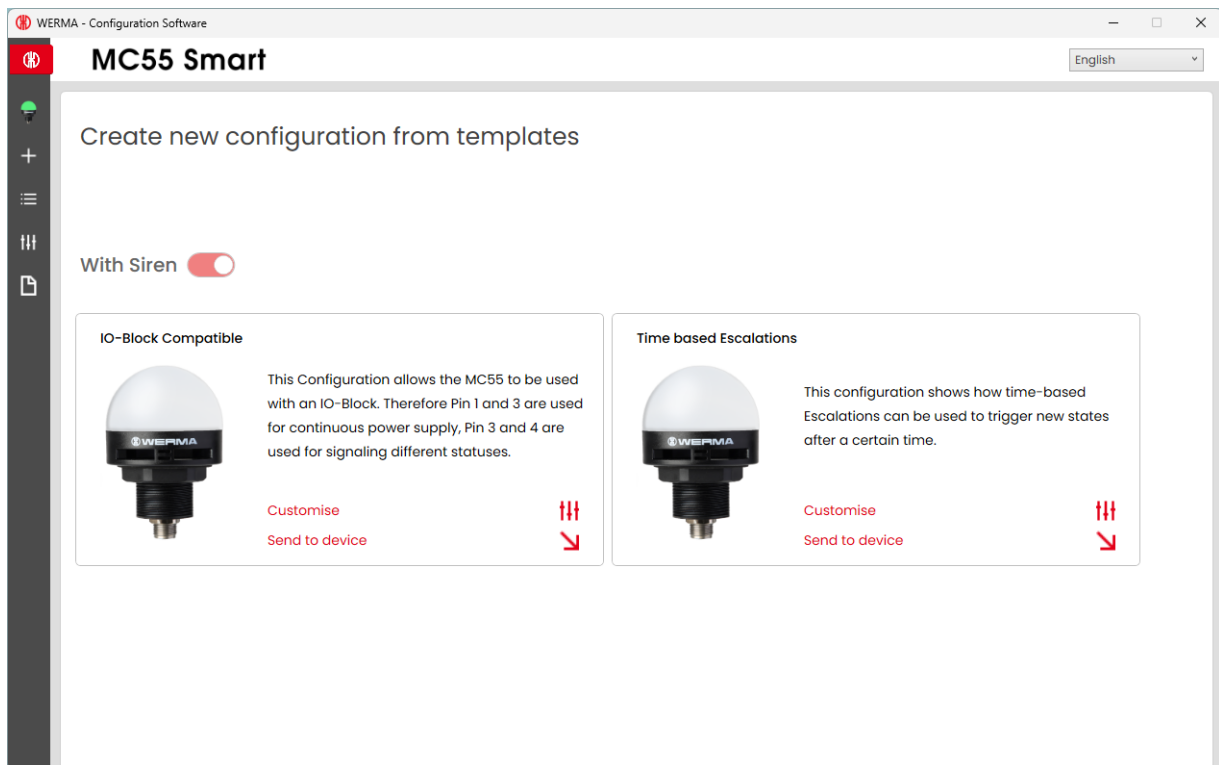
The following templates are available:

Template	Description
IO block compatible	This configuration makes it possible to use the MC55 Smart with an IO block. Therefore, pins 1 and 3 are used for a continuous power supply. Pins 2 and 4 are used to signal different statuses.
Time-based escalations	This configuration shows an example of using time-based escalations to indicate a new state after a defined period of time.

1. Click on **Create from templates** in the **Configuration** area.



→ The **Create new configuration from templates** window appears.



2. Click on **Customise** in the desired template to load and continue editing the template.

3. Click on **Send to device** to load the template and transfer it directly to the connected MC55 Smart.

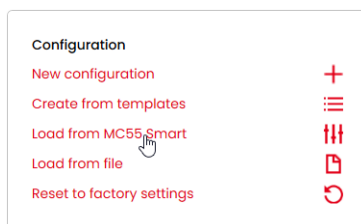


For more information on the configuration, see "Creating a new configuration", S. 196.

6.7 Loading the configuration of the connected MC55 Smart

If an MC55 Smart is connected to the computer, the WERMA - Configuration Software offers the option of opening the current configuration (for example the default setting) for editing. If no MC55 Smart is connected, this menu item is faded out.

1. Click on **Load from MC55 Smart** in the **Configuration** area.



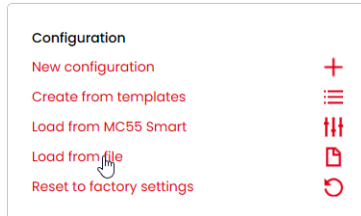
→ The **Configuration** window appears in the set mode and is already filled with the current configuration.



For more information on the configuration, see "Creating a new configuration", S. 196.

6.8 Opening configuration from file

1. Click on **Load from file** in the **Configuration** area.



2. Select the desired configuration and click on **Open**.

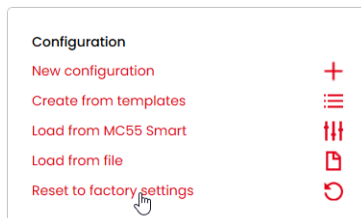


Alternatively, the last used configurations can be displayed via the page menu (see "Overview", S. 194).

6.9 Resetting to factory settings

If necessary, the MC55 Smart can be reset to the factory settings.

1. Click on **Reset to factory settings**.



→ The MC55 Smart is reset to factory settings.

6.10 Updating the firmware

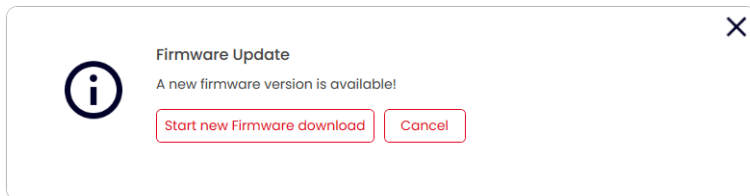


The computer must be connected to the Internet and an MC55 Smart to perform a firmware update.

1. Click on **Check if new Firmware available** in the **Firmware** area.



- The WERMA - Configuration Software checks for firmware updates for the connected MC55 Smart.
- A corresponding message appears if an update is found.



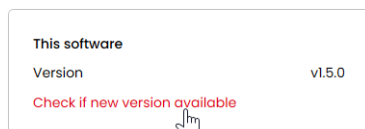
2. Click on **Start new Firmware download**.
 - The new firmware is transferred to the connected MC55 Smart.

7 Updating the WERMA - Configuration Software



The computer must be connected to the Internet to perform a software update.

1. Click on **Check if new version available** in the **This software** area.



- The WERMA - Configuration Software checks for software updates.
- A corresponding message appears if an update is found.

8 Support



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手册

WERMA - 配置软件

版本: 3.1 - 03/2026

310.657.006

声明

所有提及公司名称的内容仅用于说明目的。除下面列出的情况外,我们无意提及实际存在的组织。帮助文档中提及了以下公司和品牌:

– Microsoft Windows 10 和 Windows 11 是 Microsoft Corporation 的商标。

内容可能存在不准确或印刷错误,保留技术变更的权利。

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1 概述

1.1 功能

WERMA - 配置软件 可以用来配置以下 WERMA 设备：

- eSIGN 信号灯柱
- MC55 Touch Smart
- MC55 High Smart
- MC55 Smart

 上述设备的供货情况因市场而异。

1.2 系统要求

操作系统	Windows 10 x86/x64
	Windows 11 需更新至最新的 Windows 版本。
USB 接口	用于硬件配置。

 会一直支持以上操作系统，除非 Microsoft 终止对上述系统的支持。

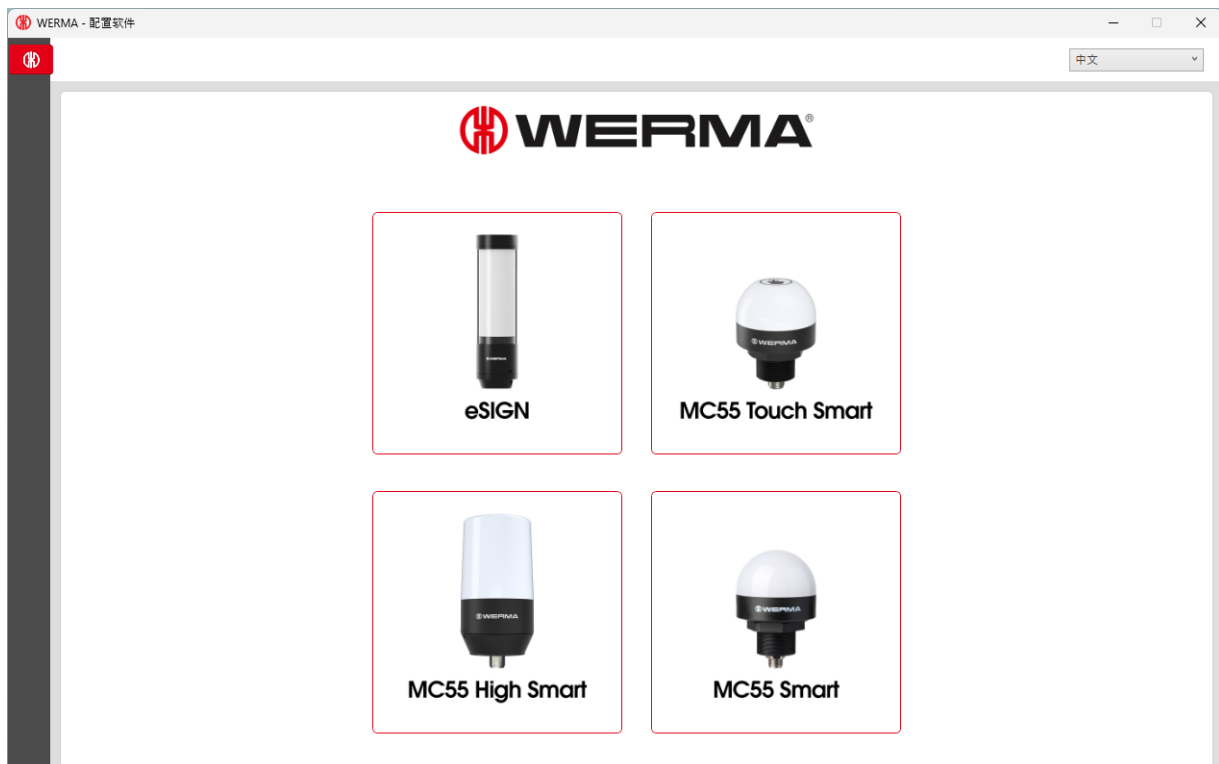
2 安装 WERMA - 配置软件

WERMA - 配置软件 无需安装, 可以作为便携版运行。

1. 可以通过以下网址下载 WERMA - 配置软件:
www.werma.com/software。

3 运行 WERMA - 配置软件

1. 双击 Werma-Konfigurator.exe。
→ WERMA - 配置软件 开始运行。



2. 选择所需设备。

4 配置 eSIGN

4.1 功能

借助新的 eSIGN, 灯光信号可达到全新维度。它采用电气模块化设计, 可实现具有多种颜色、多个亮度级别和灯光图像的信号指示模式: 从经典交通信号灯, 到完全针对客户定制化设置。即使是可变填充高度显示或全表面信号显示, eSIGN 都能轻松实现。这不仅使您的流程更加清晰明, 而且还能带来全新的应用可能性。

通过 WERMA - 配置软件 配置软件, 您可对 WERMA eSIGN 的各个分段进行配置, 并将配置参数传输至 eSIGN。

无论是否连接 eSIGN, 均可进行配置。若未连接 eSIGN, 配置数据可保存为独立配置文件, 后续随时加载并传输至连接的 eSIGN。

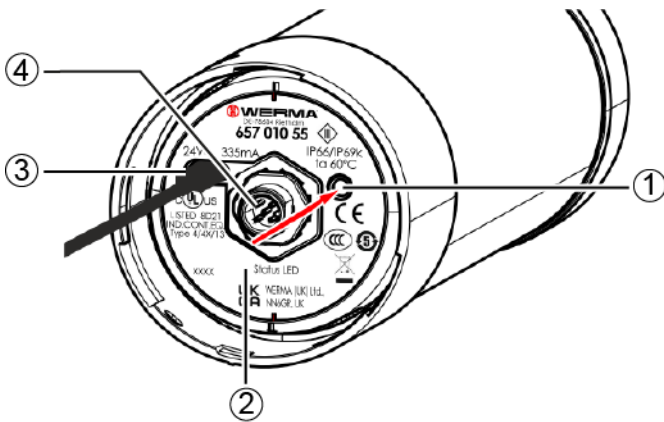
4.2 硬件说明

硬件信息适用于以下产品:

- 657.0x0.55 & 657.2x0.55 - 9 段
- 657.1x0.55 & 657.3x0.55 - 9 段, 带报警器
- 657.5x0.55 & 657.7x0.55 - 15 段
- 657.6x0.55 & 657.8x0.55 - 15 段, 带报警器
- 657.420.55 & 657.920.55 - 6 段
- 657.430.55 & 657.930.55 - 6 段, 带报警器

4.2.1 接口区域概览

ZH



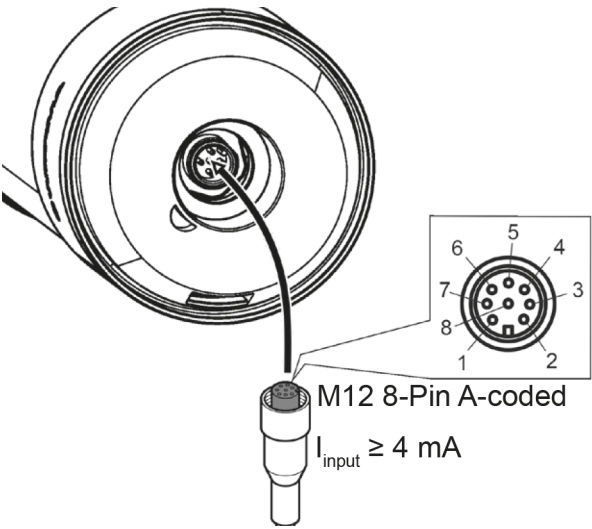
位号	描述
1	用户按钮
2	LED 状态指示灯
3	USB-C 端口
4	8 引脚 M12 连接器

LED 状态	描述
LED 闪烁黄光	正常运行中
LED 闪烁	正在更新固件
LED 熄灭	USB-C 线未正确连接

i 当前 eSIGN 版本中的用户按钮没有任何功能, 预留用于未来功能扩展。

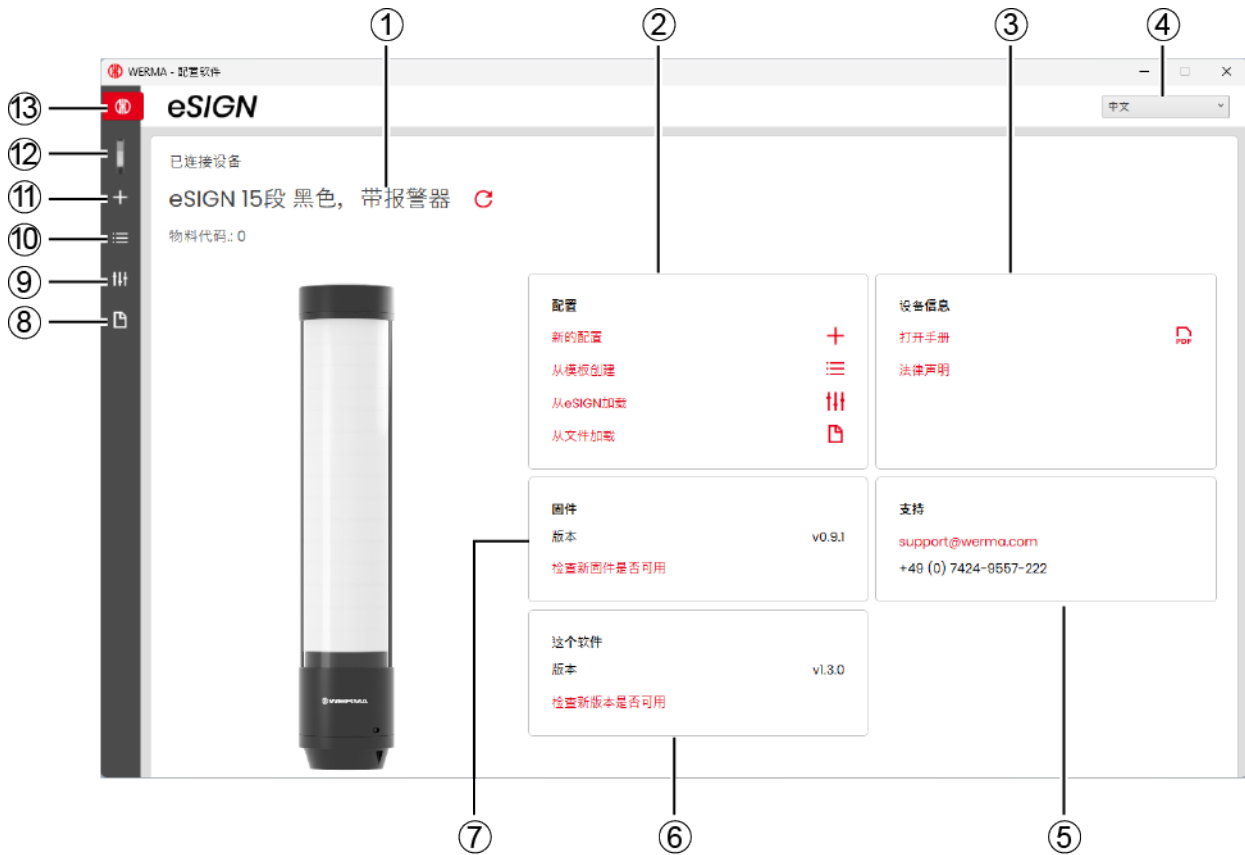
4.2.2 8 引脚 M12 连接器概览

eSIGN 通过 8 引脚 M12 连接器实现连接, 引脚分配如下:



M12 引脚分配	M12 电缆导线颜色	功能
1	白色	信号 1
2	棕色	信号 2
3	绿色	信号 3
4	黄色	信号 4
5	灰色	信号 5
6	粉色	信号 6
7	蓝色	COM
8	红色	+24V

4.3 概览



位号	描述
1	所连接的 eSIGN 的型号
2	配置 区域
3	设备信息 区域
4	设置语言
5	支持 区域
6	这个软件 区域
7	固件 区域
8	从文件打开配置
9	从 eSIGN 加载配置
10	从示例模板导入配置
11	创建新配置
12	调出主屏幕
13	设备选择: eSIGN、MC55 Touch Smart、MC55 High Smart、MC55 Smart

4.3.1 配置区域

在 **配置** 区域中, 有以下配置选项:

- **新的配置**: 创建新配置(请参阅 "创建新配置", S. 225)。
- **从模板创建**: 打开标准模板, 这些模板可立即传输到设备(请参阅 "从示例模板导入配置", S. 271)。
- **从eSIGN加载**: 打开当前配置(可能是出厂设置)进行编辑(请参阅 "从连接的 eSIGN 加载配置", S. 272)。
- **从文件加载**: 打开并重用现有配置(请参阅 "从文件打开配置", S. 273)。

4.3.2 设备信息区域

在 **设备信息** 区域可访问手册和法律声明。

4.3.3 支持区域

支持 区域显示 WERMA 支持团队的联系方式。

4.3.4 这个软件区域

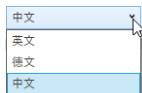
这个软件 区域显示 WERMA - 配置软件 当前版本信息, 并提供配置软件更新选项。

4.3.5 固件区域

固件 区域显示所连 eSIGN 的固件信息, 并提供固件更新选项。

4.4 设置语言

1. 在选择菜单中选择所需的语言。

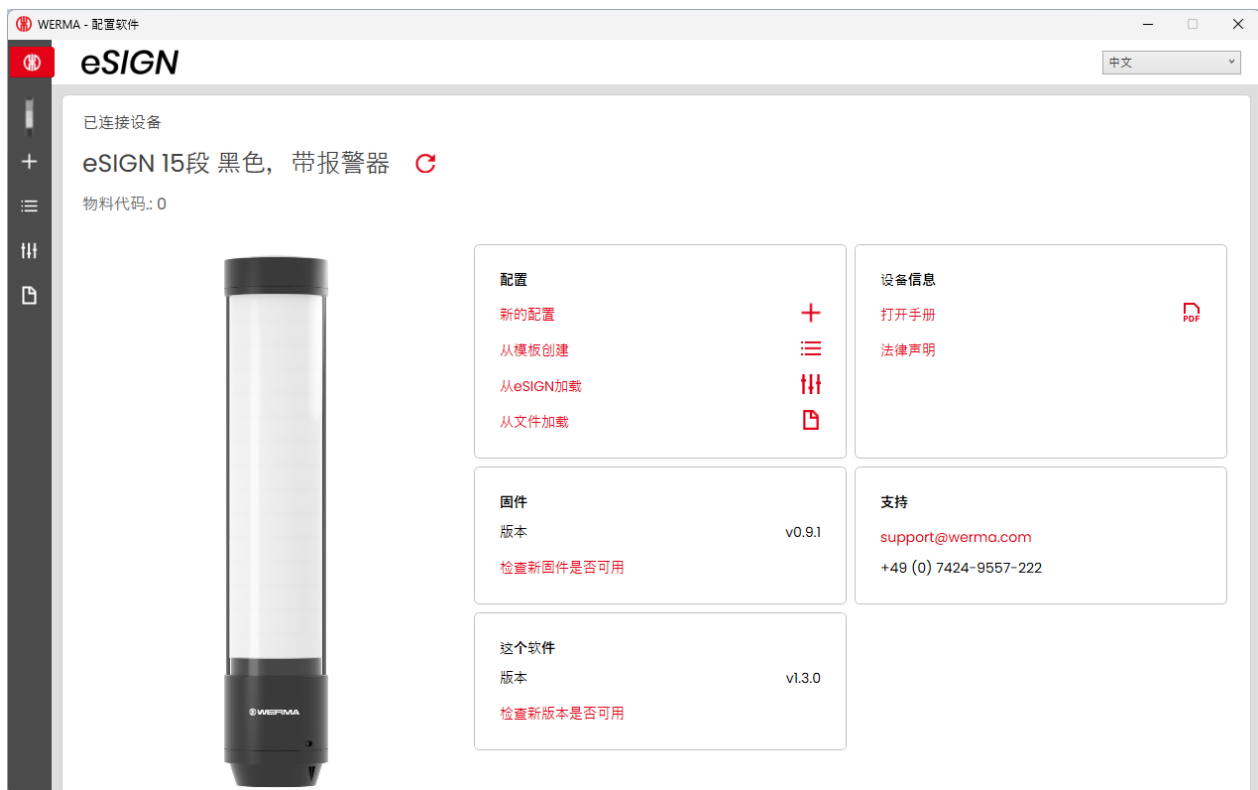


4.5 创建新配置

 无论是否连接 eSIGN, 均可进行配置。

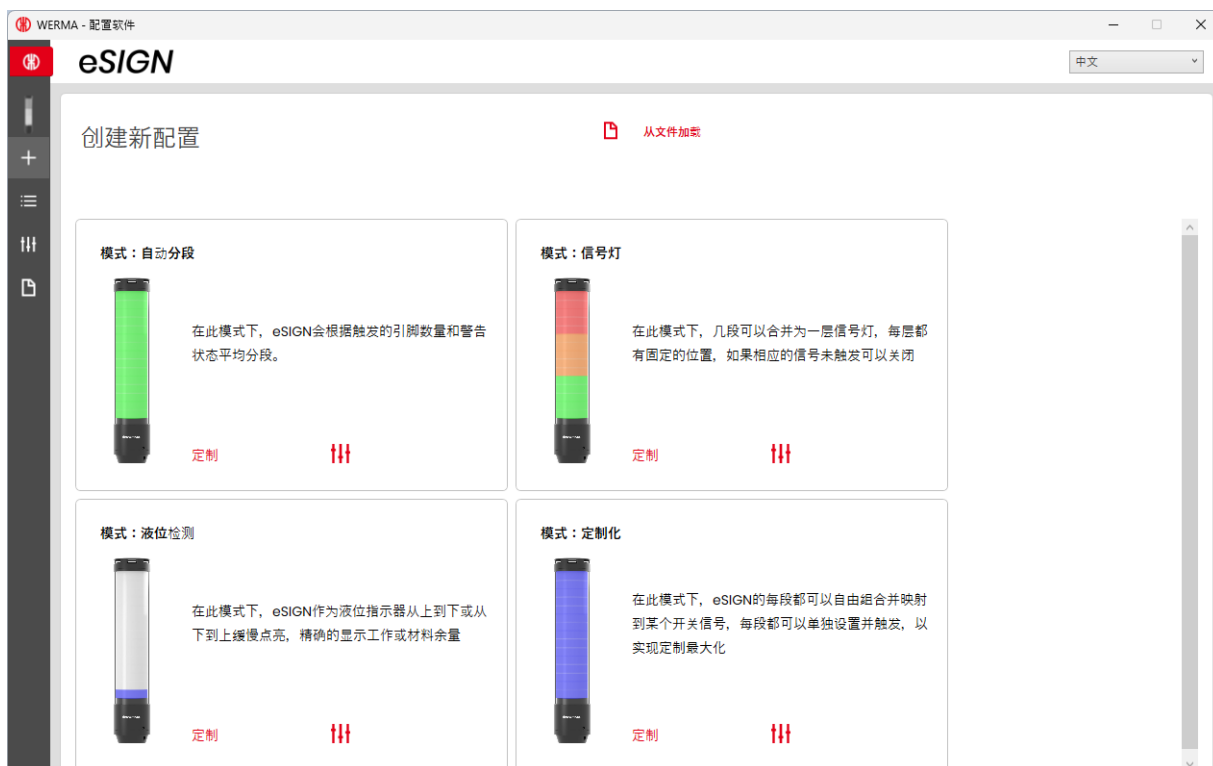
 eSIGN 可以通过 USB 数据线连接到计算机, 同时通过 M12 电缆连接到 24 V 电源。

1. 通过 USB 数据线将 eSIGN 连接至计算机。
→ WERMA - 配置软件 会识别出所连接的 eSIGN。

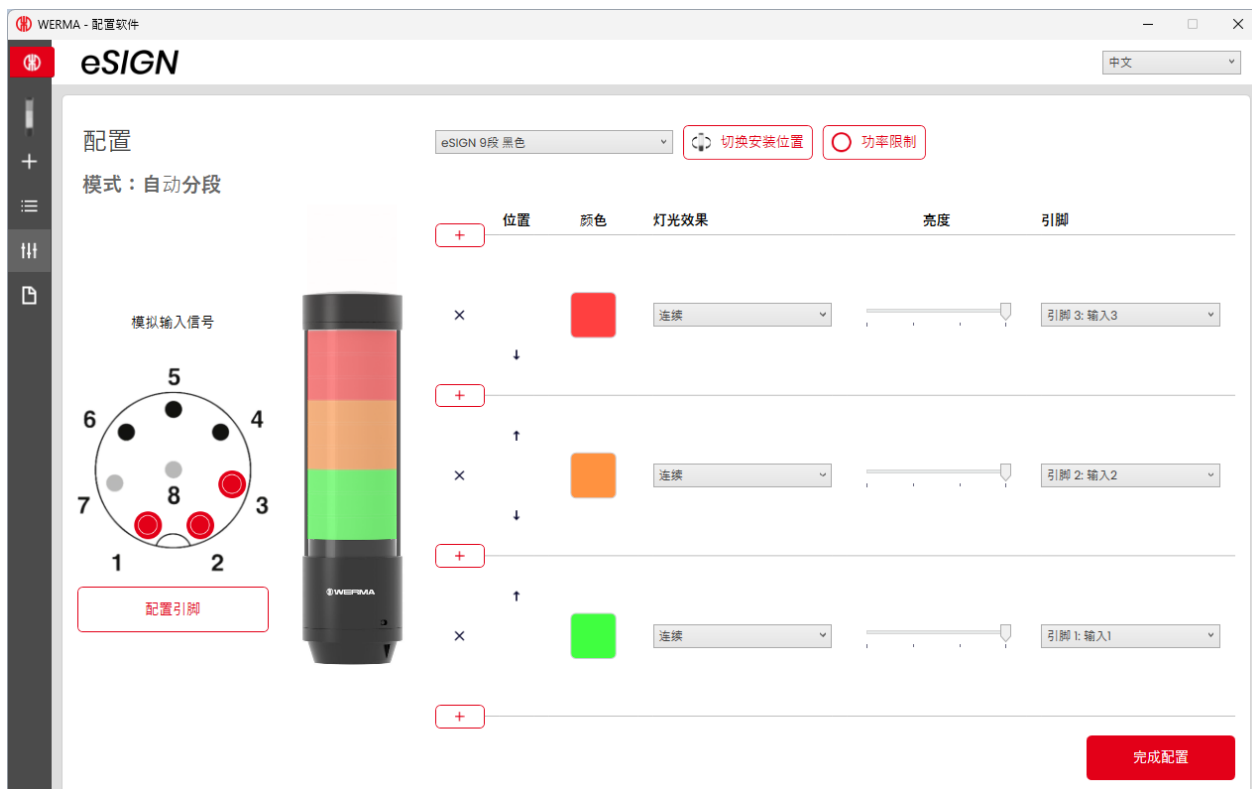


2. 如果 WERMA - 配置软件 无法识别所连接的 eSIGN: 点击 **刷新连接的设备**。

未连接设备 

3. 点击 **配置** 区域的 **新的配置**。→ **创建新配置** 界面出现。4. 根据所需的配置模式, 点击 **模式：自动分段**、**模式：信号灯**、**模式：液位检测** 或 **模式：定制化** 区域中的 **定制**。

当多个信号同时触发时,照明区域将按比例分割。若无法均匀分配各段,则优先级最高的颜色(柱状图中最上方)将获得最后一个分段。若剩余多个区段,则按优先级(柱状图中自上而下的位置)均匀分配。



 必要时可使用按钮 **切换安装位置** 将显示的信号灯柱的方向旋转 180°。

 必要时(例如,需考虑控制输出的电流限制时),可通过按钮 **功率限制** 来降低 eSIGN 的功耗。在这种情况下,灯柱的电力需求会降低到 500 mA 以下。这样一来,光信号的亮度或声音信号的音量也会降低。

自动缩放 模式为交付时的标准操作模式,设置如下:

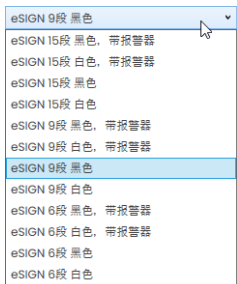
- 6 或 9 段版本:
 - 红/黄/绿 3 级
 - 持续亮起
- 15 段版本:
 - 红/黄/绿/白/蓝 5 级
 - 持续亮起

客户定制版本的出厂配置可能与此标准配置不同,具体情况以专属文档为准。

4.5.1.1 选择 eSIGN 型号

如已连接 eSIGN,则会预选相应的型号。如未连接 eSIGN,则可选择要配置的 eSIGN 的型号。

1. 根据需要,选择要配置的 eSIGN 型号。



4.5.1.2 添加或删除级别

在 **自动缩放** 模式下, 当新增或删除级别时, eSIGN 的各个分段将自动重新分割, 并均匀分配到所有级别。若无法均匀分配各段, 则优先级最高的颜色 (柱状图中最上方) 将获得最后一个分段。若剩余多个区段, 则按优先级 (柱状图中自上而下的位置) 均匀分配。

添加级别

1. 点击 **添加**。



×

→ 已添加一个级别。

删除级别

1. 点击 **删除**。



→ 已删除一个级别。

4.5.1.3 移动级别

必要时可对单个级别进行上移或下移操作。

1. 单击 **位置** 列中的向上箭头或向下箭头, 即可将级别上移或下移。



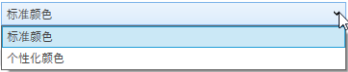
4.5.1.4 选择颜色

每个级别均可分配预设的标准颜色或自定义颜色。

1. 点击 **颜色** 列中的颜色框。



2. 选择是使用标准颜色还是自定义颜色。



标准颜色

1. 点击所需的颜色框。

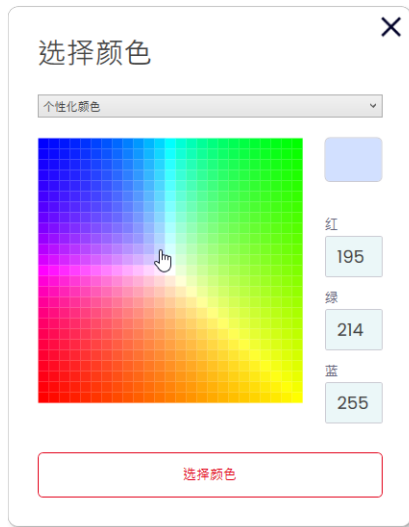


有以下 8 种标准颜色可供选择：

- 红色
- 黄色
- 绿色
- 白色
- 蓝色
- 淡黄色
- 洋红色
- 青色

自定义颜色

1. 在颜色框中选择所需的颜色，或在 **红**、**绿** 和 **蓝** 字段中输入相应的 RGB 值。



2. 点击 **选择颜色**。



4.5.1.5 选择灯光效果

1. 在 **灯光效果** 列中选择所需的灯光效果。



有以下 8 种灯光效果可供选择：

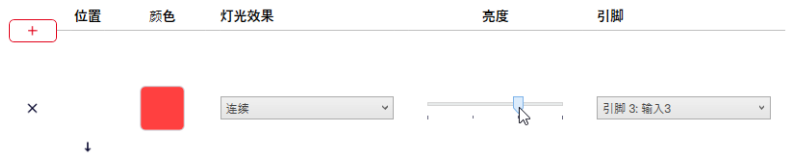
- 持续亮起
- 闪烁: 1 Hz 频率
- 闪烁: 2 Hz 频率
- 闪烁: 3 Hz 频率
- 爆闪: 1x
- 爆闪: 2x
- 爆闪: 3x
- 旋转显示
- 关闭



如果级别仅与警报器一起进行分配，则可选择设置 **无**。

4.5.1.6 设置亮度

1. 在 **亮度** 栏中，从 4 个选项中选择所需的亮度级别。



4.5.1.7 选择警报器

如果所连或所选 eSIGN 配备有警报器，则可选择一个在该级别激活时响起的信号音。



如果存储了多个级别的信号音，并且同时启用这些级别，则优先级最高(列最高位置)的颜色警报器将响起。

1. 点击 **报警** 列中的 **没有声音**。

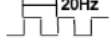
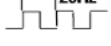
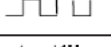
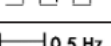
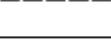


→ **选择声音** 窗口出现。



2. 选择所需的 声音、音量 和 最大持续时间。

有以下 10 种声音可供选择：

声音	频率	描述	最大分贝 (A)
1	 2.7 kHz	连续音	104
2	 0.9 kHz	连续音	96
3	 2.1 kHz	脉冲音	97
4	 0.9 kHz	脉冲音	93
5	 2.6 kHz	脉冲音	103
6	 0.9 kHz	脉冲音	96
7	 2.7 kHz	脉冲音	104
8	 2.3 kHz - 3.6 kHz	颤音	104
9	 2.6 kHz	连续音	105
10	 1.2 kHz - 0.8 kHz	交替音	95

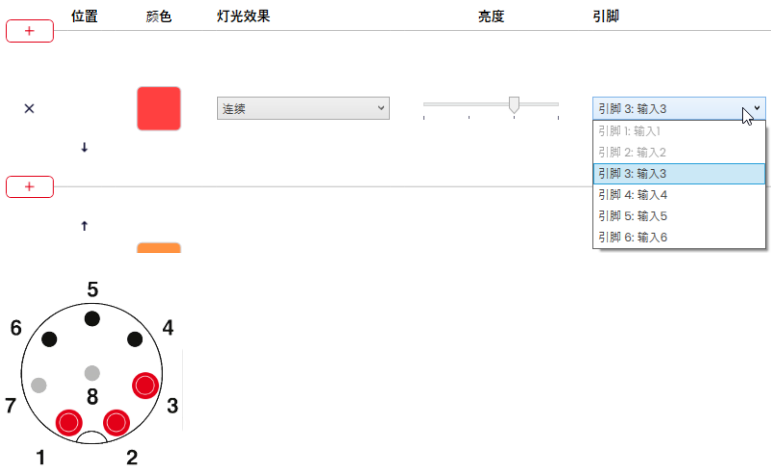
 可以使用声音选择中的按钮 ▶ 来测试所选声音。声音通过计算机发出。

3. 点击 选择声音。

4.5.1.8 选择引脚

 这些字段已预先配置为标准引脚分配，从灯柱的底部开始为引脚 1。
已使用的引脚将以灰色显示。引脚分配可根据需要随意更改。

1. 在 **引脚** 列中，选择 8 针连接器中用于发送触发信号级别的对应引脚。



调整引脚配置

必要时可更改线芯颜色与引脚的对应关系，并为信号添加描述。

1. 在引脚一览表下，单击 **配置引脚**。



→ **配置引脚** 窗口出现。

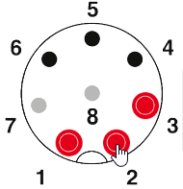


2. 在 **颜色** 栏中输入所需的线芯颜色。
3. 在 **描述** 栏中输入信号描述。
4. 点击 **保存**。

4.5.1.9 模拟启用

完成所有设置后, 可以进行启用模拟。

1. 在引脚一览表中, 单击应激活所需级别的引脚。



4.5.1.10 完成配置

1. 如有需要, 可对配置进行进一步修改。
2. 根据需要配置完所有级别后, 点击 **完成**。
→ **完成** 窗口出现。



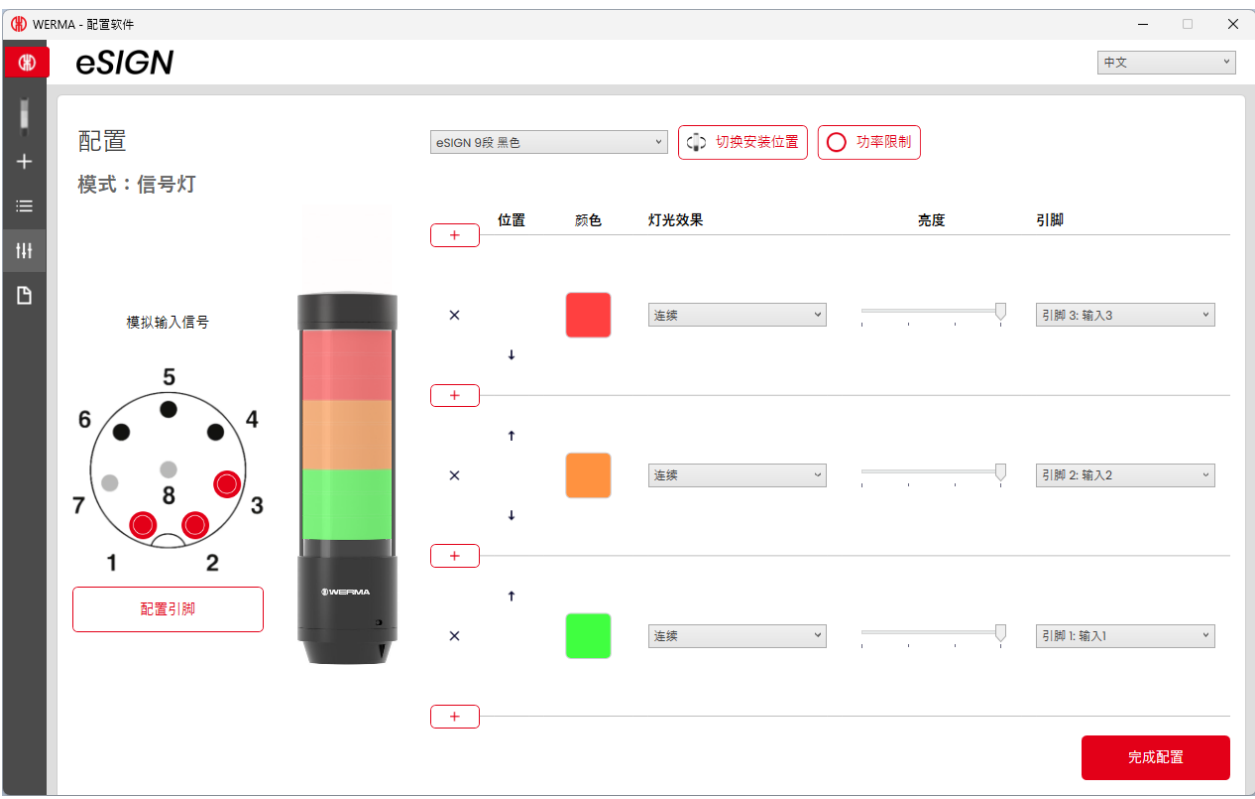
3. 点击 **保存**, 将配置保存在配置文件中。
4. 点击 **发送到设备**, 将配置传输至所连接的 eSIGN。
5. 点击 **以 PDF 格式显示当前配置**, 查看当前配置的概览。
6. 点击 **保存PDF配置表**, 将当前配置的概览另存为 PDF 文件。

4.5.2 信号灯柱模式



eSIGN 各个分段可组合联动形成一个级别, 从而以电子模块化的形式实现经典的信号柱。在此模式下, 各级别位置固定, 如果未激活相应的级别和光信号, 这些级别保持关闭状态。

此设置将灯柱内信号的亮起区域限制在特定区域内。



- i

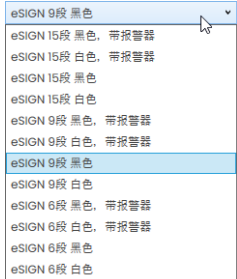
必要时可使用按钮 **切换安装位置** 将显示的信号灯柱的方向旋转 180°。
- i

必要时(例如, 需考虑控制输出的电流限制时), 可通过按钮 **功率限制** 来降低 eSIGN 的功耗。在这种情况下, 灯柱的电力需求会降低到 500 mA 以下。这样一来, 光信号的亮度或声音信号的音量也会降低。

4.5.2.1 选择 eSIGN 型号

如已连接 eSIGN, 则会预选相应的型号。如未连接 eSIGN, 则可选择要配置的 eSIGN 的型号。

1. 根据需要, 选择要配置的 eSIGN 型号。



4.5.2.2 添加或删除级别

在 信号灯柱 模式下, 当新增或删除级别时, eSIGN 的各个分段将自动重新分割, 并均匀分配到所有级别。

添加级别

1. 点击 添加。



×

→ 已添加一个级别。

删除级别

1. 点击 删除。



→ 已删除一个级别。

4.5.2.3 移动级别

必要时可对单个级别进行上移或下移操作。

1. 单击 **位置** 列中的向上箭头或向下箭头，即可将级别上移或下移。



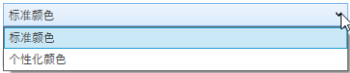
4.5.2.4 选择颜色

每个级别均可分配预设的标准颜色或自定义颜色。

1. 单击 **颜色** 列中的颜色框。



2. 选择是使用标准颜色还是自定义颜色。



标准颜色

1. 点击所需的颜色框。

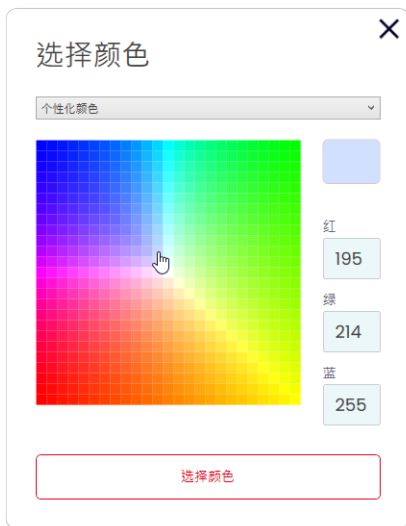


有以下 8 种标准颜色可供选择：

- 红色
- 黄色
- 绿色
- 白色
- 蓝色
- 淡黄色
- 洋红色
- 青色

自定义颜色

1. 在颜色框中选择所需的颜色，或在 **红**、**绿** 和 **蓝** 字段中输入相应的 RGB 值。



2. 点击 **选择颜色**。



4.5.2.5 选择灯光效果

1. 在 **灯光效果** 列中选择所需的灯光效果。



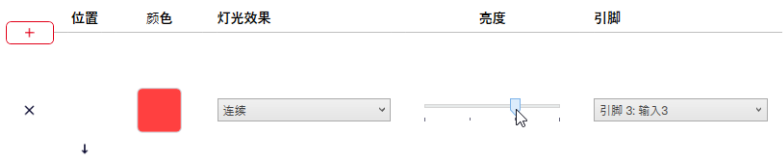
有以下 8 种灯光效果可供选择：

- 持续亮起
- 闪烁: 1 Hz 频率
- 闪烁: 2 Hz 频率
- 闪烁: 3 Hz 频率
- 爆闪: 1x
- 爆闪: 2x
- 爆闪: 3x
- 旋转显示
- 关闭

i 如果级别仅与警报器一起进行分配, 则可选择设置 **无**。

4.5.2.6 设置亮度

1. 在 **亮度** 栏中, 从 4 个选项中选择所需的亮度级别。



4.5.2.7 选择报警器

如果所连或所选 eSIGN 配备有报警器，则可选择在一个在该级别激活时响起的信号音。

如果存储了多个级别的信号音，并且同时启用这些级别，则优先级最高(列最高位置)的颜色的报警器将响起。

1. 点击 **报警** 列中的 **没有声音**。

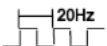
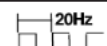
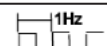
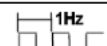
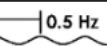


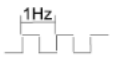
→ **选择声音** 窗口出现。



2. 选择所需的 **声音**、**音量** 和 **最大持续时间**。

有以下 10 种声音可供选择：

声音	频率	描述	最大分贝 (A)
1	2.7 kHz	连续音	104
2	0.9 kHz	连续音	96
3	 2.1 kHz	脉冲音	97
4	 0.9 kHz	脉冲音	93
5	 2.6 kHz	脉冲音	103
6	 0.9 kHz	脉冲音	96
7	 2.7 kHz	脉冲音	104
8	 2.3 kHz- 3.6 kHz	颤音	104
9	2.6 kHz	连续音	105

声音	频率	描述	最大分贝 (A)
10	 1.2 kHz - 0.8 kHz	交替音	95

 可以使用声音选择中的按钮 ▶ 来测试所选声音。声音通过计算机发出。

3. 点击 **选择声音**。

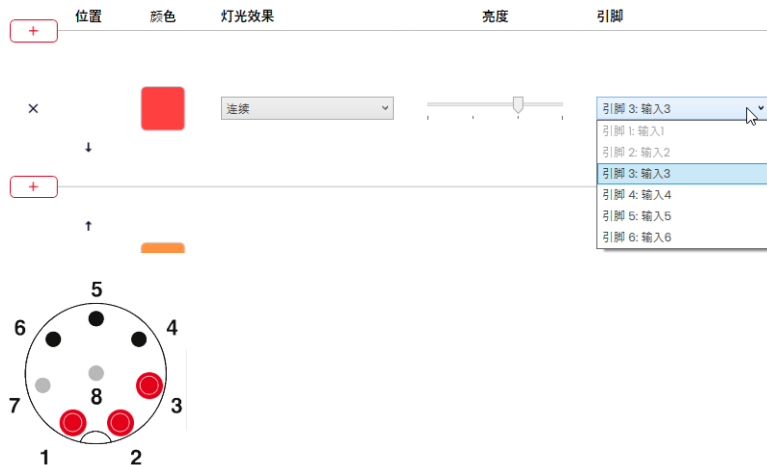


4.5.2.8 选择引脚



这些字段已预先配置为标准引脚分配，从灯柱的底部开始为引脚 1。
已使用的引脚将以灰色显示。引脚分配可根据需要随意更改。

1. 在 **引脚** 列中，选择 8 针连接器中用于发送触发信号级别的对应引脚。



调整引脚配置

必要时可更改线芯颜色与引脚的对应关系，并为信号添加描述。

1. 在引脚一览表下，单击 **配置引脚**。



→ **配置引脚** 窗口出现。



2. 在 **颜色** 栏中输入所需的线芯颜色。

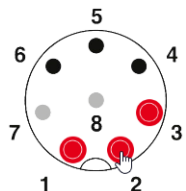
3. 在 **描述** 栏中输入信号描述。

4. 点击 **保存**。

4.5.2.9 模拟启用

完成所有设置后, 可以进行启用模拟。

1. 在引脚一览表中, 单击应激活所需级别的引脚。



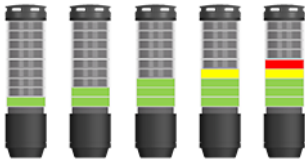
4.5.2.10 完成配置

1. 如有需要, 可对配置进行进一步修改。
2. 根据需要配置完所有级别后, 点击 **完成**。
→ **完成** 窗口出现。



3. 点击 **保存**, 将配置保存在配置文件中。
4. 点击 **发送到设备**, 将配置传输至所连接的 eSIGN。
5. 点击 **以 PDF 格式显示当前配置**, 查看当前配置的概览。
6. 点击 **保存PDF配置表**, 将当前配置的概览另存为 PDF 文件。

4.5.3 填充高度模式



在此操作模式下，eSIGN 分段被用作填充高度显示。通过递增或递减的发光效果，可精准显示机械加工过程中的任务进度或材料可用性状态。

×

模式：液位检测

设备

eSIGN 15段 黑色, 带报警器

颜色

单色

信号组合数量: 15

==分配的段数: 15

==未分配的段数: 0

未指定段的分配

顶部 (失败)

生成配置

4.5.3.1 选择 eSIGN 型号

如已连接 eSIGN，则会预选相应的型号。如未连接 eSIGN，则可选择要配置的 eSIGN 的型号。

1. 根据需要，在 **设备** 字段下选择 eSIGN 型号。

设备

eSIGN 15段 黑色, 带报警器

eSIGN 15段 黑色, 带报警器

eSIGN 15段 白色, 带报警器

eSIGN 15段 黑色

eSIGN 15段 白色

eSIGN 9段 黑色, 带报警器

eSIGN 9段 白色, 带报警器

eSIGN 9段 黑色

eSIGN 9段 白色

eSIGN 6段 黑色, 带报警器

eSIGN 6段 白色, 带报警器

eSIGN 6段 黑色

eSIGN 6段 白色

4.5.3.2 选择信号组合数量

- 在 **信号组合数量** 区域, 选择用于填充高度显示的 eSIGN 分段数量。
如果并非所有的 eSIGN 分段都用于填充高度显示:
- 在 **未指定段的分配** 字段, 选择不用于填充高度显示的 eSIGN 分段显示方式。

设置	描述
顶部(失败)	未分配的 eSIGN 分段排列在顶部, 并与最高级别信号切换。
底部(失败)	未分配的 eSIGN 分段排列在底部, 并与最低级别信号切换。
顶部(未激活)	未分配的 eSIGN 分段排列在顶部, 始终保持关闭状态。
底部(未激活)	未分配的 eSIGN 分段排列在底部, 始终保持关闭状态。

4.5.3.3 选择颜色

对于填充高度, 可选用单色或渐变色来呈现。使用渐变色时, 会自动计算两种颜色之间的色调过渡效果。
若需修改填充高度显示中单个分段的颜色, 可后续进行单独调整。

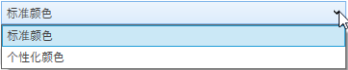
- 在 **颜色** 字段中, 选择填充高度是否应以单色或渐变色显示。

单色

- 点击颜色字段以选择所需的颜色。
→ **选择颜色** 窗口出现。



- 选择是使用标准颜色还是自定义颜色。



标准颜色

- 点击所需的颜色框。



有以下 8 种标准颜色可供选择:

- 红色
- 黄色
- 绿色

4 配置 eSIGN

- 白色
- 蓝色
- 淡黄色
- 洋红色
- 青色

自定义颜色

1. 在颜色框中选择所需的颜色, 或在 **红**、**绿** 和 **蓝** 字段中输入相应的 RGB 值。



2. 点击 **选择颜色**。



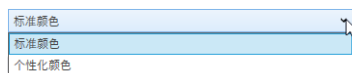
3. 点击 **生成配置**。
→ **配置** 界面出现。

渐变色

1. 点击渐变色的起始颜色与结束颜色的颜色选择框。
→ **选择颜色** 窗口出现。



2. 选择是使用标准颜色还是自定义颜色。



标准颜色

1. 点击所需的颜色框。



自定义颜色

1. 在颜色框中选择所需的颜色, 或在 **红**、**绿** 和 **蓝** 字段中输入相应的 RGB 值。

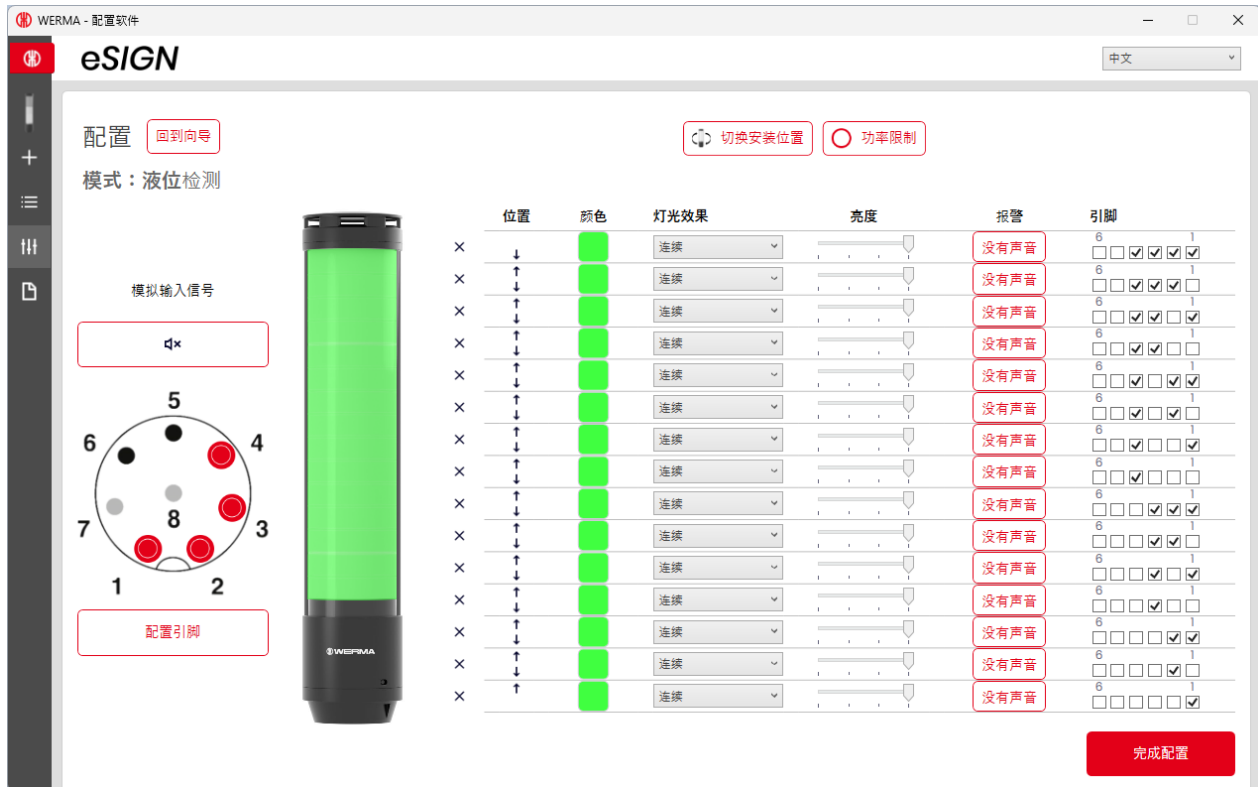


2. 点击 **选择颜色**。



3. 点击 **生成配置**。
→ **配置** 界面出现。

4.5.3.4 配置填充高度显示



❗ 必要时可使用按钮 **切换安装位置** 将显示的信号灯柱的方向旋转 180°。

❗ 必要时(例如,需考虑控制输出的电流限制时),可通过按钮 **功率限制** 来降低 eSIGN 的功耗。在这种情况下,灯柱的电力需求会降低到 500 mA 以下。这样一来,光信号的亮度或声音信号的音量也会降低。

❗ 必要时,可通过链接 **回到向导** 调用并调整颜色和分段配置。

删除或添加分段

删除分段

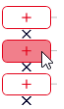
1. 点击 删除。



→ 已删除该分段。

添加分段

1. 点击 添加。



→ 已添加该分段。

移动分段

必要时可对单个分段进行上移或下移操作。

1. 单击 位置 列中的向上箭头或向下箭头, 即可将分段上移或下移。

	位置	颜色	灯光效果	亮度	报警	引脚
×	↓		连续		没有声音	6 ☐ ☐ ☒ ☒ ☒ ☒ 1
×	↑		连续		没有声音	6 ☐ ☐ ☒ ☒ ☒ ☒ 1

选择颜色

每个分段均可分配预设的标准颜色或自定义颜色。

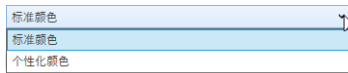
1. 点击 **颜色** 列中的颜色框。

	位置	颜色	灯光效果	亮度	报警	引脚
×	↓		连续		没有声音	6 1 ☐ ☐ ☒ ☒ ☒
×	↓		连续		没有声音	6 1 ☐ ☐ ☒ ☒ ☐

→ 选择颜色 窗口出现。



2. 选择是使用标准颜色还是自定义颜色。



标准颜色

1. 点击所需的颜色框。

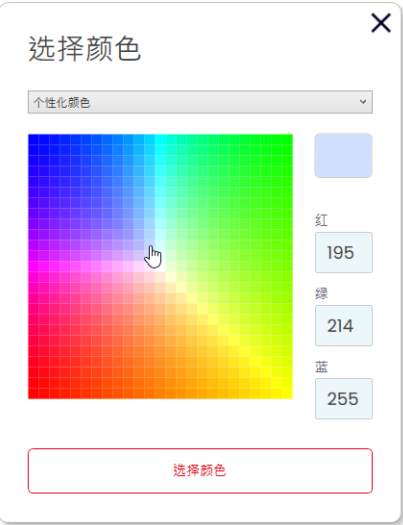


有以下 8 种标准颜色可供选择：

- 红色
- 黄色
- 绿色
- 白色
- 蓝色
- 淡黄色
- 洋红色
- 青色

自定义颜色

1. 在颜色框中选择所需的颜色，或在 红、绿 和 蓝 字段中输入相应的 RGB 值。



2. 点击 选择颜色。



选择灯光效果

1. 在 灯光效果 列中选择所需的灯光效果。

	位置	颜色	灯光效果	亮度	报警	引脚
×	↓	■	连续		没有声音	6 ☐ ☐ ☒ ☒ ☒
×	↑	■	连续		没有声音	6 ☐ ☐ ☒ ☒ ☒
×	↑	■	闪烁: 1Hz		没有声音	6 ☐ ☐ ☒ ☒ ☒
×	↑	■	闪烁: 2Hz		没有声音	6 ☐ ☐ ☒ ☒ ☒
×	↑	■	闪烁: 3Hz		没有声音	6 ☐ ☐ ☒ ☒ ☒
×	↑	■	爆闪: 1x		没有声音	6 ☐ ☐ ☒ ☒ ☒
×	↑	■	爆闪: 2x		没有声音	6 ☐ ☐ ☒ ☒ ☒
×	↑	■	爆闪: 3x		没有声音	6 ☐ ☐ ☒ ☒ ☒
×	↑	■	旋转		没有声音	6 ☐ ☐ ☒ ☒ ☒
×	↑	■	无		没有声音	6 ☐ ☐ ☒ ☒ ☒

有以下 8 种灯光效果可供选择：

- 持续亮起
- 闪烁: 1 Hz 频率
- 闪烁: 2 Hz 频率
- 闪烁: 3 Hz 频率
- 爆闪: 1x
- 爆闪: 2x
- 爆闪: 3x
- 旋转显示
- 关闭

如果级别仅与警报器一起进行分配，则可选择设置 无。

设置亮度

1. 在 **亮度** 栏中, 从 4 个选项中选择所需的亮度级别。



选择报警器

如果所连或所选 eSIGN 配备有报警器, 则可选择在一个在分段激活时响起的信号音。

i 如果存储了多个级别的信号音, 并且同时启用这些级别, 则优先级最高(列最高位置)的颜色的报警器将响起。

1. 点击 **报警** 列中的 **没有声音**。



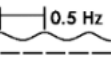
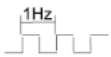
→ **选择声音** 窗口出现。



2. 选择所需的 **声音**、**音量** 和 **最大持续时间**。

有以下 10 种声音可供选择:

声音	频率	描述	最大分贝 (A)
1	2.7 kHz	连续音	104
2	0.9 kHz	连续音	96
3	420Hz 2.1 kHz	脉冲音	97
4	20Hz 0.9 kHz	脉冲音	93
5	20Hz 2.6 kHz	脉冲音	103
6	1Hz 0.9 kHz	脉冲音	96

声音	频率	描述	最大分贝 (A)
7	 1Hz 2.7 kHz	脉冲音	104
8	 0.5 Hz 2.3 kHz - 3.6 kHz	颤音	104
9	 2.6 kHz	连续音	105
10	 1Hz 1.2 kHz - 0.8 kHz	交替音	95

 可以使用声音选择中的按钮 ▶ 来测试所选声音。声音通过计算机发出。

3. 点击 选择声音。



选择引脚



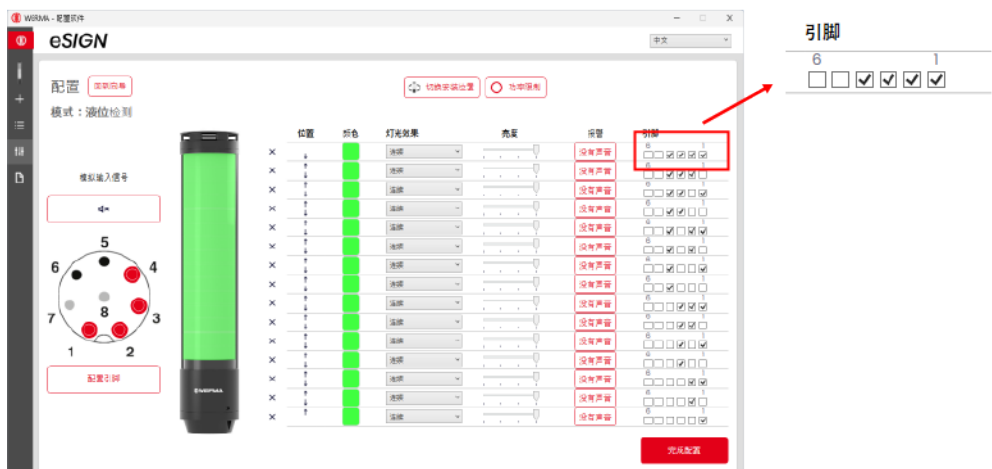
这些字段已预先配置为标准引脚分配，从灯柱的底部开始为引脚 1。

已使用的引脚将以灰色显示。引脚分配可根据需要随意更改。

填充高度显示通过数据位编码进行启用。引脚列中的复选框对应 6 个引脚或信号线。勾选一个或多个复选框，表示需启用对应引脚或信号线，以激活相应设置。

示例：

若需全柱显示绿色，必须启用引脚 1-4。



1. 在 引脚 列中，选择 8 引脚连接器中用于发送级别触发信号的对应引脚。



调整引脚配置

必要时可更改线芯颜色与引脚的对应关系, 并为信号添加描述。

1. 在引脚一览表下, 单击 **配置引脚**。



→ **配置引脚** 窗口出现。

配置引脚

	线芯颜色	描述
引脚 1: 输入1	白色	
引脚 2: 输入2	棕色	
引脚 3: 输入3	绿色	
引脚 4: 输入4	黄色	
引脚 5: 输入5	灰色	
引脚 6: 输入6	粉色	
引脚 7: 公共端	蓝色	
引脚 8: +24V	红色	

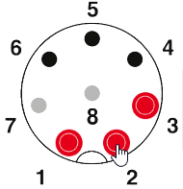
保存

2. 在 **颜色** 栏中输入所需的线芯颜色。
3. 在 **描述** 栏中输入信号描述。
4. 点击 **保存**。

4.5.3.5 模拟启用

完成所有设置后, 可以进行启用模拟。

1. 在引脚一览表中, 单击应激活所需级别的引脚。



4.5.3.6 完成配置

1. 如有需要, 可对配置进行进一步修改。
2. 根据需要配置完所有级别后, 点击 **完成**。
→ **完成** 窗口出现。



3. 点击 **保存**, 将配置保存在配置文件中。
4. 点击 **发送到设备**, 将配置传输至所连接的 eSIGN。
5. 点击 **以 PDF 格式显示当前配置**, 查看当前配置的概览。
6. 点击 **保存PDF配置表**, 将当前配置的概览另存为 PDF 文件。

4.5.4 自定义模式

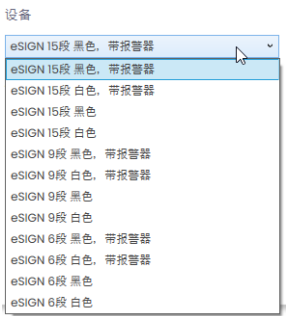
 在此操作模式下, 可将任意组合的分段配置映射为专属开关信号。每个 eSIGN 分段均可单独设置, 且整个信号灯柱的整体配置可作为一个信号图像进行启用。通过 **个性化** 模式, 用户可借此实现最多样化的自定义信号显示方案。



4.5.4.1 选择 eSIGN 型号

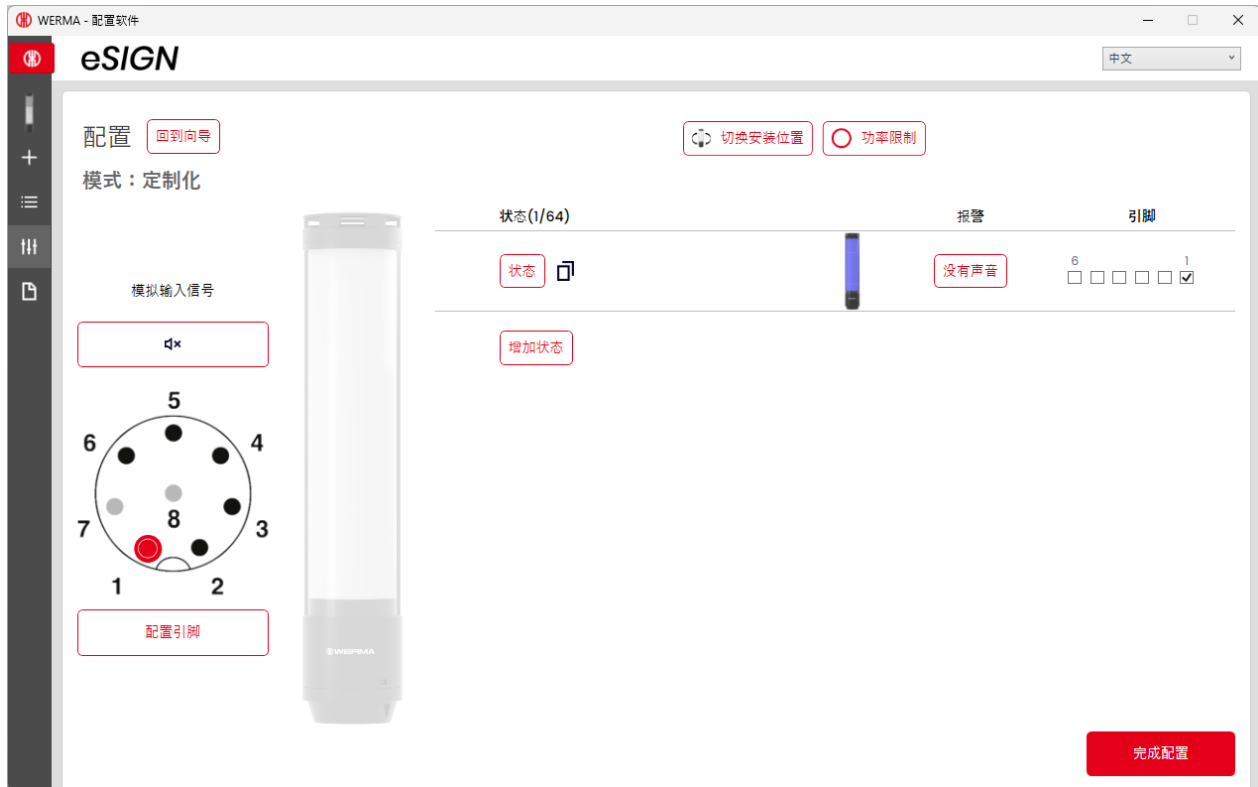
如已连接 eSIGN, 则会预选相应的型号。如未连接 eSIGN, 则可选择要配置的 eSIGN 的型号。

1. 根据需要, 在 **设备** 字段下选择 eSIGN 型号。



2. 点击 **生成配置**。
→ **配置** 界面出现。

4.5.4.2 配置信号图像



 必要时可使用按钮 **切换安装位置** 将显示的信号灯柱的方向旋转 180°。

 必要时(例如, 需考虑控制输出的电流限制时), 可通过按钮 **功率限制** 来降低 eSIGN 的功耗。在这种情况下, 灯柱的电力需求会降低到 500 mA 以下。这样一来, 光信号的亮度或声音信号的音量也会降低。

 必要时, 可通过链接 **回到向导** 调用并调整 eSIGN 型号的配置。

调整信号图像

- 最多可配置 64 个信号图像，并将其传输到 eSIGN。
信号图像由每个分段的独立光学设置和信号音(如适用)组成。

1. 点击 状态。



- 必要时，可以使用按钮 **重置** 将当前信号图像重置为默认设置。

为信号图像命名

- 在字段 **状态** 中输入当前信号图像的名称。

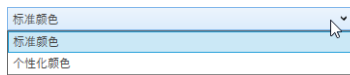
选择报警器

如果所连或所选 eSIGN 配备有报警器，则可选择在一个在该信号图像激活时响起的信号音。

1. 点击 **报警** 字段下的 **没有声音**。



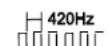
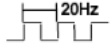
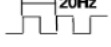
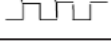
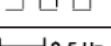
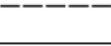
2. 选择是使用标准音还是自定义声音。



标准音

3. 选择所需的 声音、音量 和 最大持续时间。

有以下 10 种声音可供选择：

声音	频率	描述	最大分贝 (A)
1	 2.7 kHz	连续音	104
2	 0.9 kHz	连续音	96
3	 2.1 kHz	脉冲音	97
4	 0.9 kHz	脉冲音	93
5	 2.6 kHz	脉冲音	103
6	 0.9 kHz	脉冲音	96
7	 2.7 kHz	脉冲音	104
8	 2.3 kHz - 3.6 kHz	颤音	104
9	 2.6 kHz	连续音	105
10	 1.2 kHz - 0.8 kHz	交替音	95

 可以使用声音选择中的按钮 ▶ 来测试所选声音。声音通过计算机发出。

4. 点击 选择声音。



自定义声音

选择声音

个性化声音

图形参数说明

音量

声音类型

保持时间频率2 (ms)

频率1 (Hz)

重复计数

重复后暂停 (ms)

周期间暂停 (ms)

选择声音

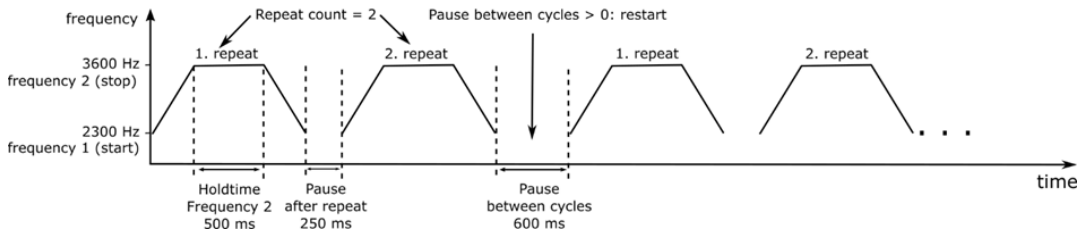
1. 根据需要进行设置。



使用选项 **个性化声音**，可根据各种参数生成客户自定义的声音。

如需了解各项设置的详细信息，请点击按钮 **图形参数说明** 和 **?**。

点击按钮 **图形参数说明** 后会显示下列图示，介绍各项设置的效果：

2. 点击 **选择声音**。

连接和分割分段

必要时可将多个分段连接组合成一个级别, 或从级别中分割开来。

连接分段

1. 点击 **连接步骤** 列中的符号 **连接步骤**。



分割分段

1. 点击 **连接步骤** 列中的符号 **分离步骤**。



移动级别

必要时可对单个级别进行上移或下移操作。

1. 单击 **位置** 列中的向上箭头或向下箭头, 即可将级别上移或下移。



选择颜色

每个分段均可分配预设的标准颜色或自定义颜色。

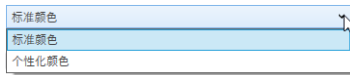
1. 点击 **颜色** 列中的颜色框。



→ **选择颜色** 窗口出现。



2. 选择是使用标准颜色还是自定义颜色。



标准颜色

1. 点击所需的颜色框。

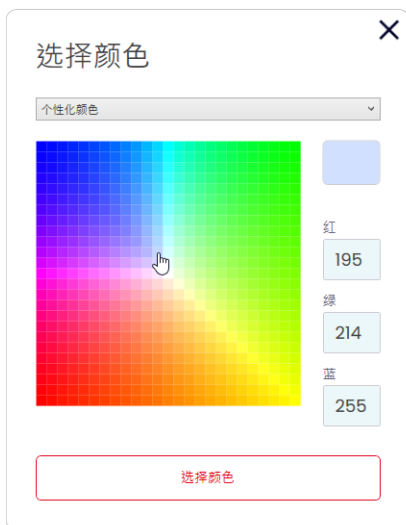


有以下 8 种标准颜色可供选择：

- 红色
- 黄色
- 绿色
- 白色
- 蓝色
- 淡黄色
- 洋红色
- 青色

自定义颜色

1. 在颜色框中选择所需的颜色，或在 **红**、**绿** 和 **蓝** 字段中输入相应的 RGB 值。



2. 点击 **选择颜色**。



选择灯光效果

1. 在 灯光效果 列中选择所需的灯光效果。

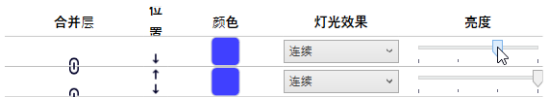


有以下 8 种灯光效果可供选择：

- 持续亮起
- 闪烁: 1 Hz 频率
- 闪烁: 2 Hz 频率
- 闪烁: 3 Hz 频率
- 爆闪: 1x
- 爆闪: 2x
- 爆闪: 3x
- 旋转显示
- 关闭

设置亮度

1. 在 亮度 栏中, 从 4 个选项中选择所需的亮度级别。



完成所有设置后：

2. 点击 保存。



4.5.4.3 选择引脚



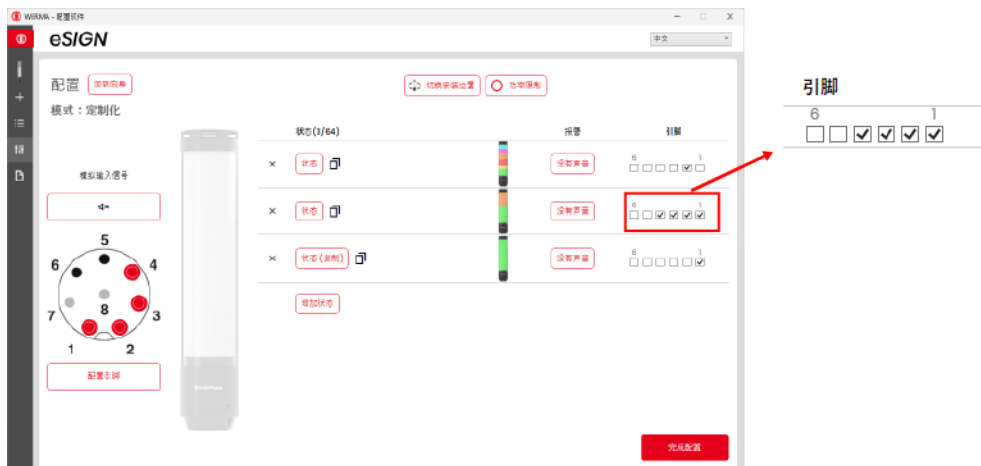
字段已预先设定默认配置。

引脚分配可根据需要随意更改。

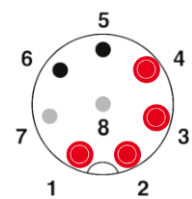
单个信号图像通过数据位编码进行启用。**引脚**列中的复选框对应 6 个引脚或信号线。勾选一个或多个复选框，表示需启用对应引脚或信号线，以激活相应的信号图像。

示例：

要激活第二个信号图像，必须启用引脚 1-4。



1. 在 **引脚** 列中，选择 8 引脚连接器中用于发送信号图像触发信号的对应引脚。



调整引脚配置

必要时可更改线芯颜色与引脚的对应关系, 并为信号添加描述。

1. 在引脚一览表下, 单击 **配置引脚**。



→ **配置引脚** 窗口出现。

配置引脚

	线芯颜色	描述
引脚 1: 输入1	白色	
引脚 2: 输入2	棕色	
引脚 3: 输入3	绿色	
引脚 4: 输入4	黄色	
引脚 5: 输入5	灰色	
引脚 6: 输入6	粉色	
引脚 7: 公共端	蓝色	
引脚 8: +24V	红色	

保存

2. 在 **颜色** 栏中输入所需的线芯颜色。
3. 在 **描述** 栏中输入信号描述。
4. 点击 **保存**。

4.5.4.4 复制信号图像

i

最多可配置 64 个信号图像, 并将其传输到 eSIGN。

信号图像由每个分段的独立光学设置和信号音(如适用)组成。

1. 在所需信号图像所在行中点击 **重复**。



2. 根据描述配置信号图像。

4.5.4.5 添加信号图像



最多可配置 64 个信号图像, 并将其传输到 eSIGN。

信号图像由每个分段的独立光学设置和信号音(如适用)组成。

1. 点击 **增加状态**。



2. 根据描述配置信号图像。

4.5.4.6 删除信号图像

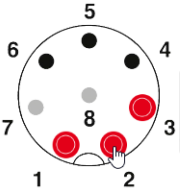
1. 在所需信号图像所在行中点击 **删除**。



4.5.4.7 模拟启用

完成所有设置后, 可以进行启用模拟。

1. 在引脚一览表中, 单击应激活所需信号图像的引脚。



4.5.4.8 完成配置

1. 如有需要, 可对配置进行进一步修改。
2. 根据需要配置完所有信号图像后, 点击 **完成**。
→ **完成** 窗口出现。



3. 点击 **保存**, 将配置保存在配置文件中。
4. 点击 **发送到设备**, 将配置传输至所连接的 eSIGN。
5. 点击 **以 PDF 格式显示当前配置**, 查看当前配置的概览。
6. 点击 **保存PDF配置表**, 将当前配置的概览另存为 PDF 文件。

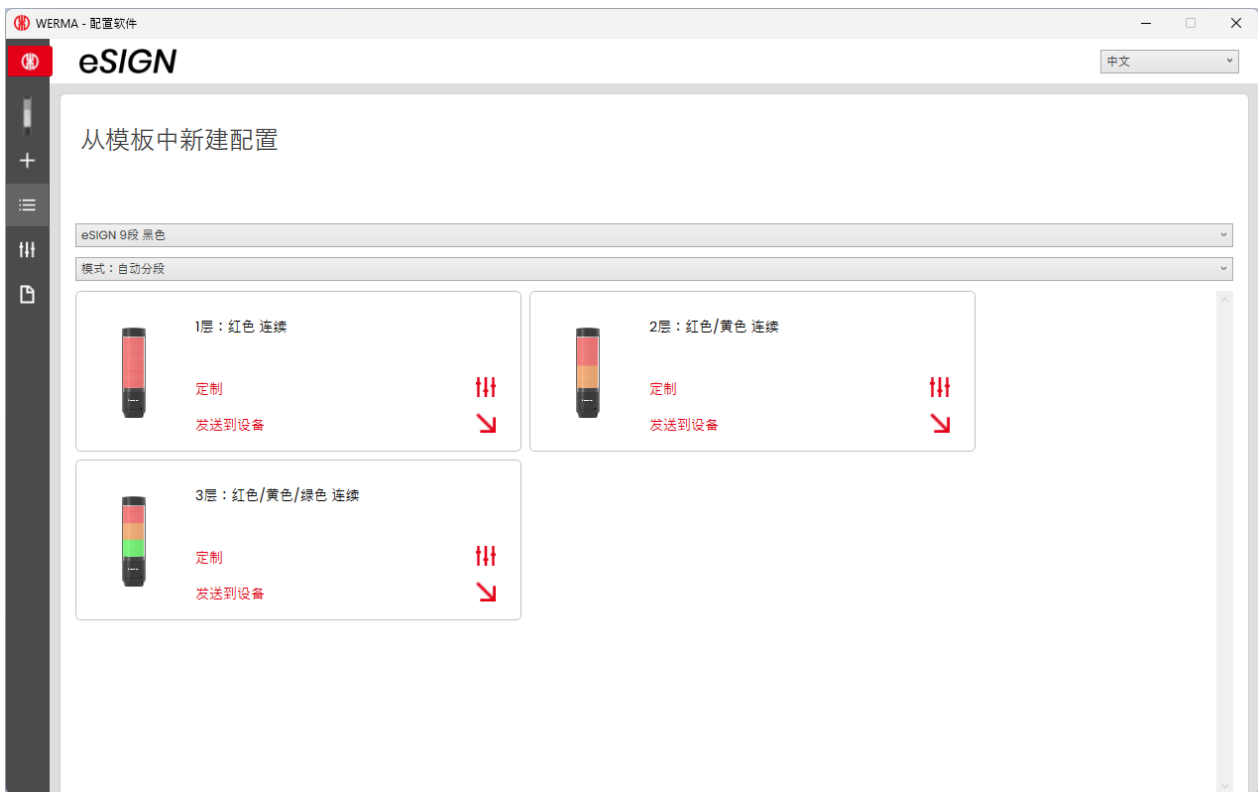
4.6 从示例模板导入配置

WERMA - 配置软件 提供多种预定义配置, 这些配置可以直接传输到所连的 eSIGN, 也可以作为自定义配置的参考。

1. 点击 **配置** 区域的 **从模板创建**。



→ 从模板中新建配置 窗口出现。



2. 选择 eSIGN 的型号。
3. 选择模式。
→ 系统将显示可用的模板。
4. 点击所需模板上的 **定制**, 以加载模板并继续编辑。
5. 点击 **发送到设备** 以加载模板, 并直接将其传输到所连的 eSIGN。



有关配置的详细信息, 请参阅 "创建新配置", S. 225。

4.7 从连接的 eSIGN 加载配置

如果 eSIGN 已连接至计算机, WERMA - 配置软件 配置软件支持加载当前配置(可能是出厂设置)进行编辑。如未连接 eSIGN, 该菜单项将呈灰色显示。

1. 点击 **配置** 区域的 **从eSIGN加载**。



→ **配置** 窗口会以设置的模式显示, 并且已填充当前配置。



有关配置的详细信息, 请参阅 "创建新配置", S. 225。

4.8 从文件打开配置

1. 点击 **配置** 区域的 **从文件加载**。



2. 选择所需的配置文件并点击 **打开**。



也可以通过侧边菜单显示最近使用过的配置(请参阅"概览", S. 223)。

4.9 更新固件



要进行固件更新, 计算机必须连接到互联网, 且必须连接 eSIGN。

1. 点击 **固件** 区域的 **检查新固件是否可用**。



- WERMA - 配置软件 会搜索所连的 eSIGN 是否有固件更新。
- 发现有更新包后, 会显示相应的消息。



2. 点击 **开始下载新固件**。
→ 新固件将传输至所连的 eSIGN。

5 配置 MC55 Touch Smart

5.1 功能

全新 MC55 Touch Smart 将彩色状态灯转变为可与操作员交互的交互式界面。借助直观的配置软件，用户可以通过设置不同的颜色、灯光效果和声音，以及基于时间的升级，轻松实现多种信号模式。

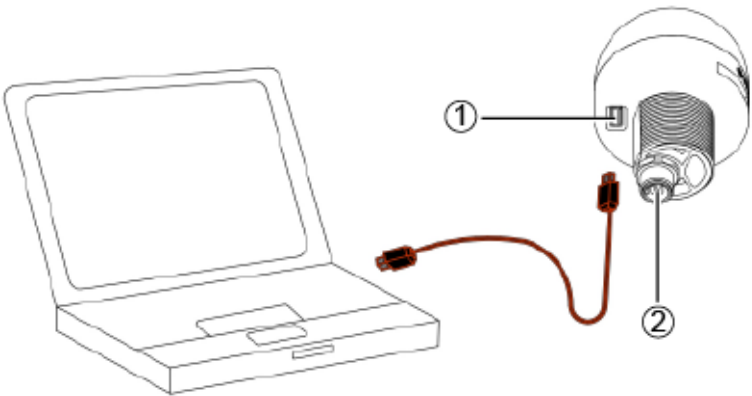
MC55 Touch Smart 支持多种应用场景，例如简单的音频警报确认、24 V 信号的切换、利用基于时间的升级进行流程模拟等，可满足各种不同需求。

5.2 硬件说明

硬件信息适用于以下产品：

- 240.160.55 MC55 Touch S 24VDC
- 240.170.55 MC55 Touch S 24VDC 带报警器

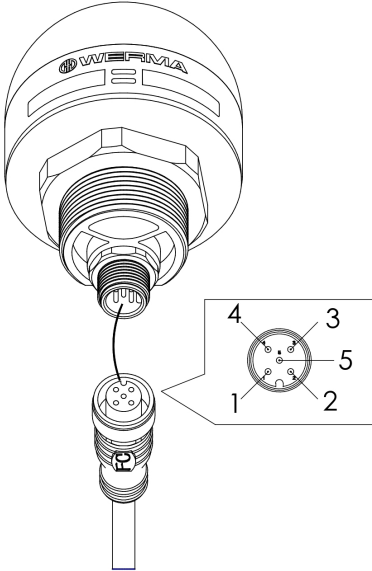
5.2.1 接口区域概览



位号	描述
1	USB-C 端口
2	5 引脚 M12 连接器

5.2.2 5 引脚 M12 连接器概览

MC55 Touch Smart 通过 5 引脚 M12 连接器连接, 引脚分配如下:



M12 引脚分配	M12 电缆导线颜色	功能
1	棕色	信号 1
2	白色	信号 2
3	蓝色	COM
4	黑色	输出 24 V, 200 mA
5	灰色	信号 3

5.2.3 默认设置

MC55 Touch Smart 默认以 开关 模式交付。激活触摸输入后, 输出端将切换为 24 V。

5.3 概览



位号	描述
1	所连接的 MC55 Touch Smart 的型号
2	配置 区域
3	设备信息 区域
4	设置语言
5	支持 区域
6	这个软件 区域
7	固件 区域
8	从文件打开配置
9	编辑现有配置
10	从示例模板导入配置
11	创建新配置
12	调出主屏幕
13	设备选择: eSIGN、MC55 Touch Smart、MC55 High Smart、MC55 Smart

5.3.1 配置区域

在 **配置** 区域中, 有以下配置选项:

- **新的配置**: 创建新配置 (请参阅 "创建新配置", S. 278)。
- **从模板创建**: 打开标准模板, 这些模板可立即传输到设备 (请参阅 "从示例模板导入配置", S. 291)。
- **从MC55 Touch加载**: 打开当前配置 (可能是出厂设置) 进行编辑 (请参阅 "从连接的 MC55 Touch Smart 加载配置", S. 293)。
- **从文件加载**: 打开并重用现有配置 (请参阅 "从文件打开配置", S. 294)。
- **重置为出厂设置**: 将连接的 MC55 Touch Smart 恢复到出厂设置 (请参阅 "恢复出厂设置", S. 294)。

5.3.2 设备信息区域

在 **设备信息** 区域可访问手册和法律声明。

5.3.3 支持区域

支持 区域显示 WERMA 支持团队的联系方式。

5.3.4 这个软件区域

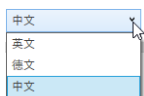
这个软件 区域显示 WERMA - 配置软件 当前版本信息, 并提供配置软件更新选项。

5.3.5 固件区域

固件 区域显示所连 MC55 Touch Smart 的固件信息, 并提供固件更新选项。

5.4 设置语言

1. 在选择菜单中选择所需的语言。



5.5 创建新配置

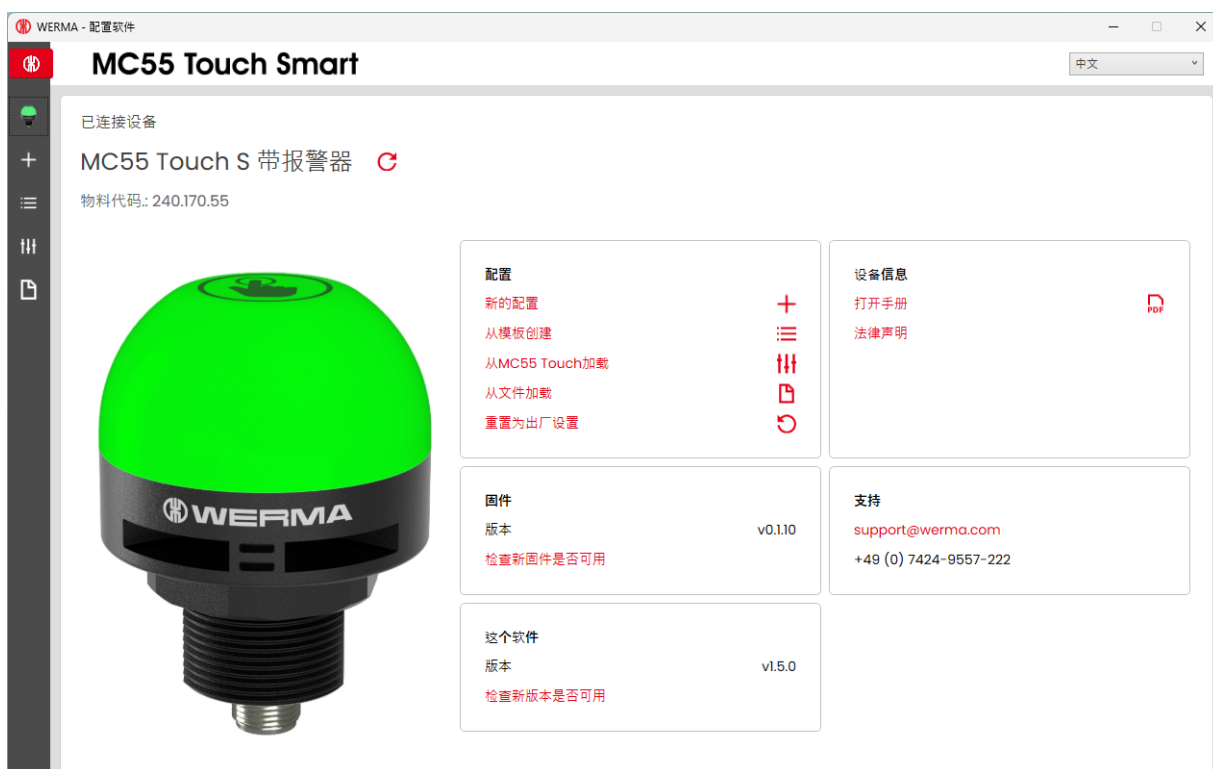


无论是否连接 MC55 Touch Smart, 都可以进行配置。



MC55 Touch Smart 可以通过 USB 数据线连接到计算机, 同时通过 M12 电缆线连接到 24 V 电源。

1. 通过 USB 数据线将 MC55 Touch Smart 连接至计算机。
→ WERMA - 配置软件 会识别出已连接的 MC55 Touch Smart。



2. 如果 WERMA - 配置软件 无法识别所连接的 MC55 Touch Smart: 点击 **刷新连接的设备**。

未连接设备 

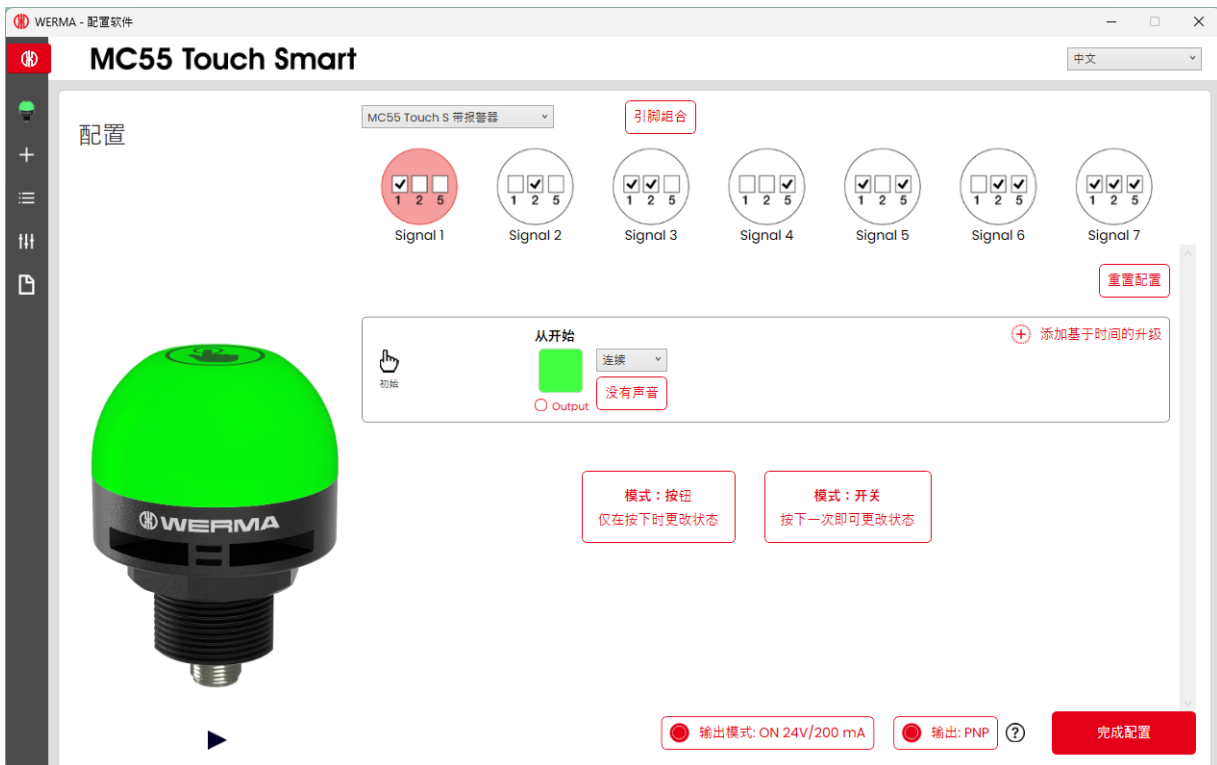
5 配置 MC55 Touch Smart

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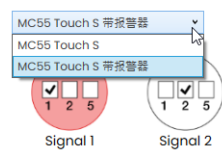
3. 点击 **配置** 区域的 **新的配置**。



→ **配置** 界面出现。



4. 如有必要, 选择要配置的 MC55 Touch Smart 型号。

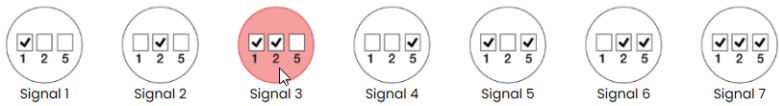


5. 选择 **模式: 开关** 或 **模式: 按钮**。

5.5.1 选择信号输入

每个信号输入均可单独配置。图标显示相应的引脚分配。

1. 单击所需的信号输入。



5.5.1.1 重命名信号输入

如有必要, 可以重命名信号输入并添加描述。

1. 单击信号输入概述上方的 **引脚组合**。



→ **引脚组合** 窗口出现。

×

引脚组合

	简称	描述
Signal 1: 001	Signal 1	
Signal 2: 010	Signal 2	
Signal 3: 011	Signal 3	
Signal 4: 100	Signal 4	
Signal 5: 101	Signal 5	
Signal 6: 110	Signal 6	
Signal 7: 111	Signal 7	

保存

2. 在 **简称** 栏中输入所需的名称。

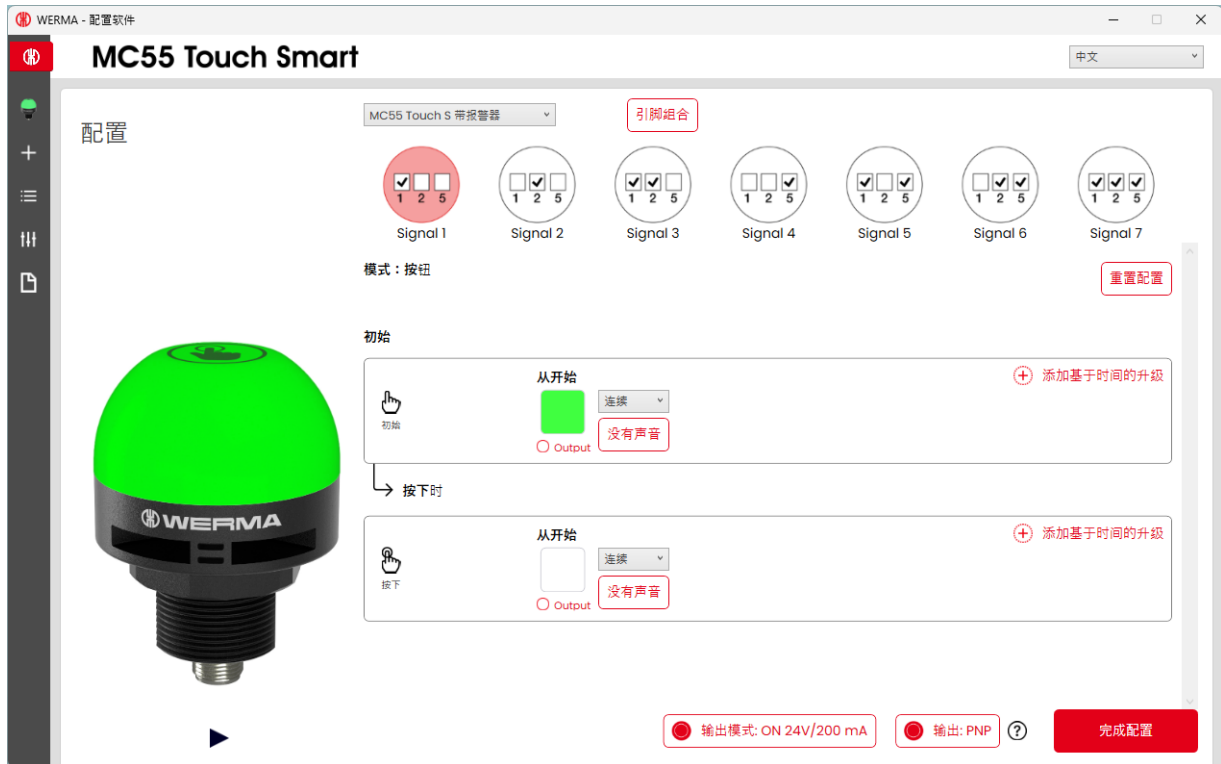
3. 在 **描述** 栏中输入信号描述。

4. 单击 **保存**。

5.5.2 更改模式

每个信号输入均可事后在 **按钮** 模式和 **开关** 模式之间进行选择。

5.5.2.1 按钮 模式

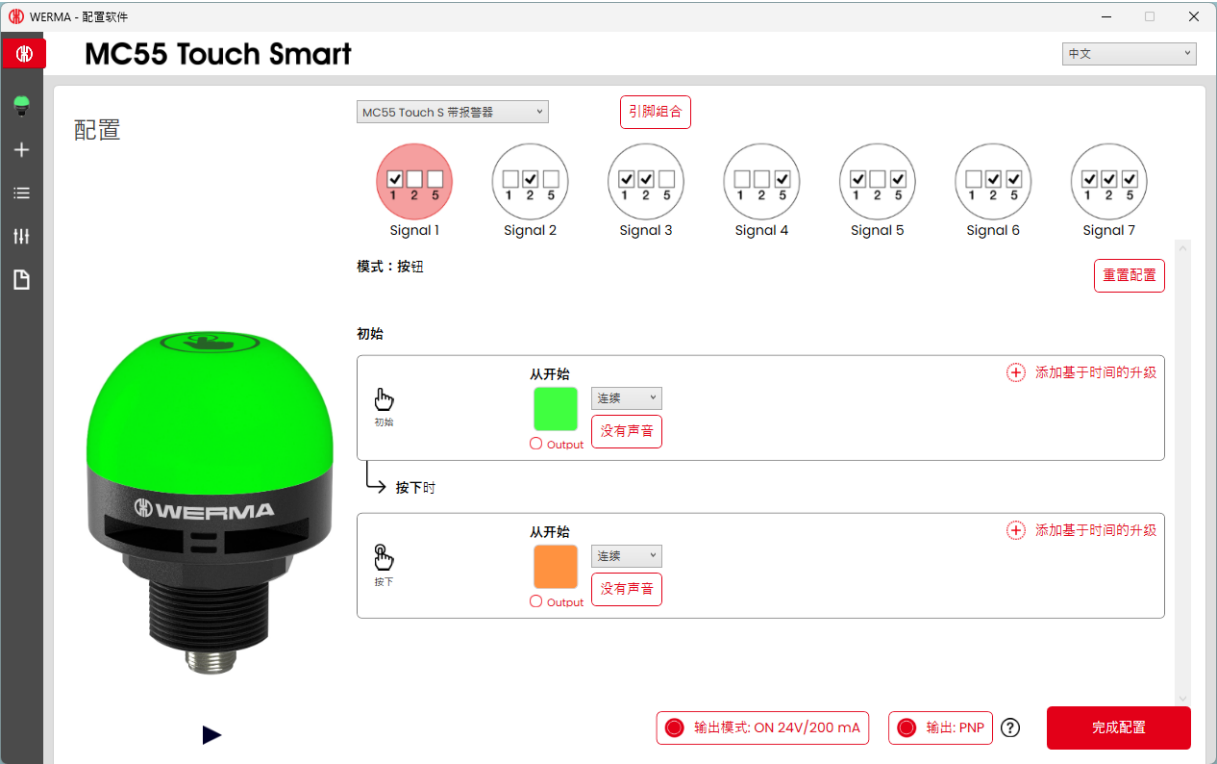


按钮 模式下可配置 2 种状态。

- 初始状态: 相应的信号输入通电且未按下 MC55 Touch Smart 时。
- 被按下状态: MC55 Touch Smart 被按下并保持按下的状态时。
- 松开 MC55 Touch Smart 后, 会变为初始状态。

针对每个状态, 可调整颜色、灯光效果、报警器 (如配备)、基于时间的升级策略及输出端口的设置。

5.5.2.2 开关 模式



开关 模式下可配置 10 种状态。每按一次 MC55 Touch Smart 即切换成下一个状态。
在 开关 模式下切换状态时, MC55 Touch Smart 会短暂亮起白色, 为触摸输入识别提供反馈。
针对每个状态, 可调整颜色、灯光效果、报警器 (如配备)、基于时间的升级策略及输出端口的设置。

i MC55 Touch Smart 出厂时标配为开关模式。激活触摸输入后, 输出端将切换为 24 V。

1. 在所需的信号输入中点击 **重置配置**。



2. 选择 **模式: 按钮** 或 **模式: 开关**。



5.5.3 调整状态

只能在 **开关** 模式中添加、删除或重命名状态。在 **按钮** 模式中, 只有两种预定义状态, 无法更改。

5.5.3.1 添加状态

1. 点击 **添加状态**。



5.5.3.2 删除状态

1. 在要删除的状态旁 (例如 **状态 3**) 点击 .



5.5.3.3 重命名状态

1. 点击状态 (例如 **状态 1**)。
→ **状态 1** 窗口出现。

状态 1
×

描述

2. 在 **描述** 字段中输入所需的状态名称。
3. 点击 **保存**。



5.5.4 选择颜色

每个级别均可分配预设的标准颜色或自定义颜色。

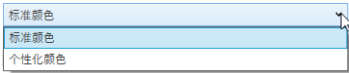
1. 点击 **颜色** 列中的颜色框。



→ **选择颜色** 窗口出现。



2. 选择是使用标准颜色还是自定义颜色。



5.5.4.1 标准颜色

3. 点击所需的颜色框。



有以下 8 种标准颜色可供选择：

- 红色
- 黄色
- 绿色
- 白色
- 蓝色
- 淡黄色
- 洋红色
- 青色

5.5.4.2 自定义颜色

4. 在颜色框中选择所需的颜色，或在 **红**、**绿** 和 **蓝** 字段中输入相应的 RGB 值。



5. 点击 **选择颜色**。



5.5.5 选择灯光效果

1. 点击颜色框旁边的选择菜单，选择所需的灯光效果。



有以下 8 种灯光效果可供选择：

- 持续亮起
- 闪烁: 1 Hz 频率
- 闪烁: 2 Hz 频率
- 闪烁: 3 Hz 频率
- 爆闪: 1x
- 爆闪: 2x
- 爆闪: 3x
- 脉冲
- 关闭



如果引脚分配仅用于声音或持续供电, 则可以选择 **无** 设置。

5.5.6 选择报警器

如果所连或所选 MC55 Touch Smart 配备有报警器, 则可选择一个在该状态激活时响起的信号音。

1. 在所需的状态中点击 **没有声音**。

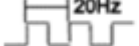
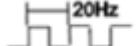


→ **选择声音** 窗口出现。

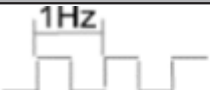


2. 选择所需的 **声音**。

有以下 10 种声音可供选择：

声音	频率	描述	最大分贝 (A)
1	 3.8 kHz	连续音	86
2	 0.9 kHz	连续音	70
3	 2.1 kHz	脉冲音	67
4	 0.9 kHz	脉冲音	68
5	 2.65 kHz	脉冲音	66
6	 0.9 kHz	脉冲音	70
7	 3.8 kHz	脉冲音	87
8	 2.3 kHz - 3.6 kHz	摇摆音	89
9	 2.65 kHz	连续音	67

5 配置 MC55 Touch Smart

声音	频率	描述	最大分贝(A)
10	 1Hz 1.2 kHz - 0.8 kHz	交替音	78

 可以使用声音选择中的按钮 ▶ 来测试所选声音。声音通过计算机发出。

3. 点击 选择声音。



5.5.7 自定义时间型升级

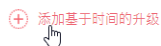
开关 模式或 按钮 模式中的每个状态最多可以配置两个时间型升级。

配置时间型升级后, 到达设定时间时, 会激活下一次升级。

可以配置每次升级的时间、灯光效果、颜色、警报器(如有)和输出。

5.5.7.1 添加时间型升级

1. 点击 添加基于时间的升级。

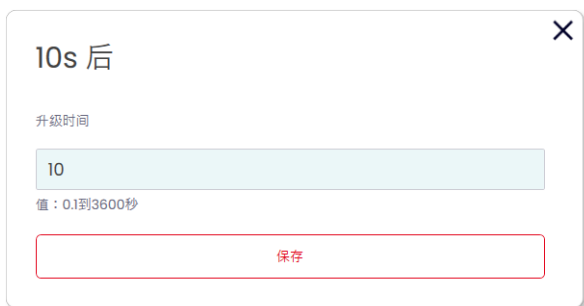


→ 已添加一个升级级别。



2. 单击 10 秒后。

→ 10 秒后窗口出现。



3. 在 升级时间 字段中输入此升级级别应在多少秒后开始。

4. 点击 **保存**。



5. 根据需要调整此升级级别的其他属性(颜色、灯光效果、输出和声音)。

6. 如有必要, 单击  以添加另一个升级级别。

5.5.7.2 删除时间型升级

如有需要, 可以删除最后一个升级级别。

1. 在最后一个升级级别中点击 **删除**。



5.5.8 激活输出

MC55 Touch Smart 的数字 24V 输出可针对每种状态或每个单独的升级级别激活。

1. 在所需的 状态或升级级别下启用**输出**选项。



2. 如有必要, 可在 **输出模式: ON 24V/200 mA** 和 **输出模式: PULSE 24V/200mA** 之间切换。



i 在**脉冲**模式下, 输出将产生至少 100 ms 的脉冲信号。

3. 如有必要, 可在 **输出: PNP** 和 **输出: NPN** 之间切换。



! 说明

MC55 Touch Smart 受损

MC55 Touch Smart 可能会因输出配置不当而受损。

1. 因此, 请确保 MC55 Touch Smart 的输出配置与所连设备或机器相匹配。

接线	描述	
PNP		- 正向切换 - 正极负载切换到输出端。
NPN		- 负向切换 - 负极负载切换到输出端。

5.5.9 模拟启用

完成所有设置后, 可以进行启用模拟。

模拟会展示灯光效果、基于时间的升级、输出状态, 以及声音输出(用符号表示)。

1. 点击 MC55 Touch Smart 图像下方的 ►。
→ MC55 Touch Smart 会显示初始状态, 以及经过相应时间后的升级级别(如果已配置)。
2. 点击 **触摸按钮** 即可模拟按下 MC55 Touch Smart 的操作。
3. MC55 Touch Smart 图像会显示已配置的行为。
4. 点击 MC55 Touch Smart 图像下方的 ■ 即可停止模拟。

5.5.10 完成配置

1. 如有需要, 可对配置进行进一步修改。
2. 根据需要配置完所有级别后, 点击 **完成**。
→ **完成** 窗口出现。



3. 点击 **保存**, 将配置保存在配置文件中。
4. 点击 **发送到设备**, 将配置传输到所连的 MC55 Touch Smart。
5. 点击 **以 PDF 格式显示当前配置**, 查看当前配置的概览。
6. 点击 **保存PDF配置表**, 将当前配置的概览另存为 PDF 文件。

5.6 从示例模板导入配置

WERMA - 配置软件 提供多种预定义配置，这些配置可以直接传输到所连的 MC55 Touch Smart，也可以作为自定义配置的参考。

提供以下模板：

模板	描述
按钮配置	– MC55 Touch Smart 被配置为按钮。 – 按住 MC55 Touch Smart 时，会激活另一状态以及“开启”模式下的输出。 – 每个信号输入使用不同的颜色表示。 可能的应用场景： – 另一个设备仅在按住 MC55 Touch Smart 期间激活。
开关配置	– MC55 Touch Smart 被配置为开关。 – 按下 MC55 Touch Smart 时，会激活另一状态以及“开启”模式下的输出。 – 每个信号输入使用不同的颜色表示。 – 每个信号输入最多可以设置 10 种状态。 可能的应用场景： – 通过脉冲输出向控制器提供反馈，同时切换 MC55 Touch Smart 的状态，或控制另一个设备的开/关。
配置：基于时间的升级	– MC55 Touch Smart 被配置为按钮。 – 60 秒后，MC55 Touch Smart 呈红色闪烁，并且激活“开启”模式下的输出。 – 每个状态最多可以配置 2 个基于时间的升级。 可能的应用场景： – 如果错误在一定时间后仍未确认，可启动声音输出，以及按下 MC55 Touch Smart 来确认错误。 – 可以通过变化的灯光效果来实现时间敏感型工作步骤的可视化。
IO块兼容	– MC55 Touch Smart 被配置为开关。 可能的应用场景： – IO 模块 – 信号输入 1 为 24 V。 – 信号输入 3 为 COM。 – 信号输入 2 和 4 显示不同的颜色。

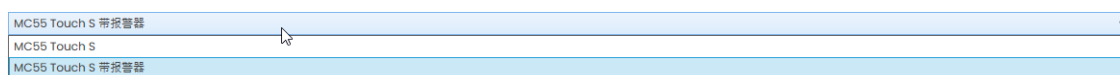
1. 点击 **配置** 区域的 **从模板创建**。



→ 从模板中新建配置 窗口出现。



2. 选择 MC55 Touch Smart 的型号。



3. 点击所需模板上的 **定制**，以加载模板并继续编辑。
4. 点击 **发送到设备** 以加载模板，并直接将其传输到所连的 MC55 Touch Smart。

 有关配置的详细信息，请参阅“*创建新配置*”，S. 278。

5.7 从连接的 MC55 Touch Smart 加载配置

如果 MC55 Touch Smart 连接到计算机，WERMA - 配置软件 会提供“打开当前配置 (可能是出厂设置) 进行编辑”选项。如果没有连接 MC55 Touch Smart，该菜单项将呈灰色显示。

1. 点击 **配置** 区域的 **从MC55 Touch加载**。



→ **配置** 窗口会以设置的模式显示，并且已填充当前配置。

 有关配置的详细信息，请参阅“*创建新配置*”，S. 278。

5.8 从文件打开配置

1. 点击 **配置** 区域的 **从文件加载**。



2. 选择所需的配置文件并点击 **打开**。

 也可以通过侧边菜单显示最近使用过的配置(请参阅"概览",S.276)。

5.9 恢复出厂设置

如果需要, 可将 MC55 Touch Smart 恢复到出厂设置。

1. 点击 **重置为出厂设置**。



→ MC55 Touch Smart 将恢复为出厂设置。

5.10 更新固件



要进行固件更新, 计算机必须连接到互联网, 且必须连接 MC55 Touch Smart。

1. 点击 **固件** 区域的 **检查新固件是否可用**。



- WERMA - 配置软件 会搜索所连的 MC55 Touch Smart 是否有固件更新。
- 发现有更新包后, 会显示相应的消息。



2. 点击 **开始下载新固件**。
 - 新固件将传输至所连的 MC55 Touch Smart。

6 配置 MC55 Smart 和 MC55 High Smart



MC55 Smart 与 MC55 High Smart 两种型号的配置方式相同。以下将以 MC55 Smart 为例介绍配置过程。

6.1 功能

MC55 Smart 采用紧凑型外壳设计, 提供清晰、易于识别的 LED 信号。它易于集成, 适用于需要可靠状态指示的多种不同应用场景。

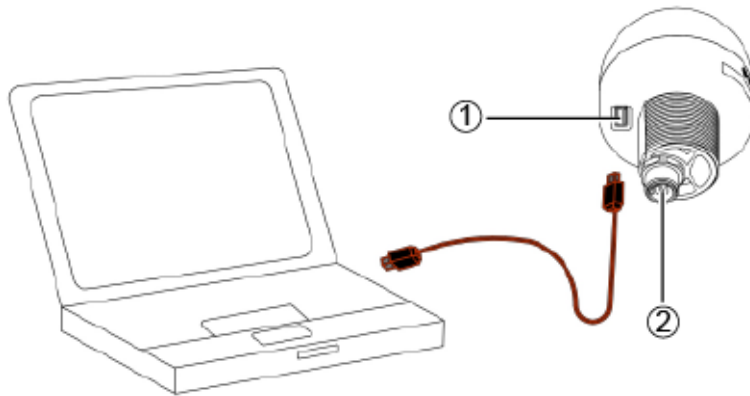
MC55 Smart 的引脚 4 既可用作输入, 也可用作输出。默认情况下, 引脚 4 配置为输入。因此, 可以利用 MC55 Smart 实现小型逻辑功能。

6.2 硬件说明

硬件信息适用于以下产品:

- 240.520.00 Smart
- 240.520.01 Smart + 报警器
- 240.620.00 MC55 High S 灯光 24V RM
- 240.620.01 MC55 High S 灯光 + 报警器 24V RM

6.2.1 接口区域概览

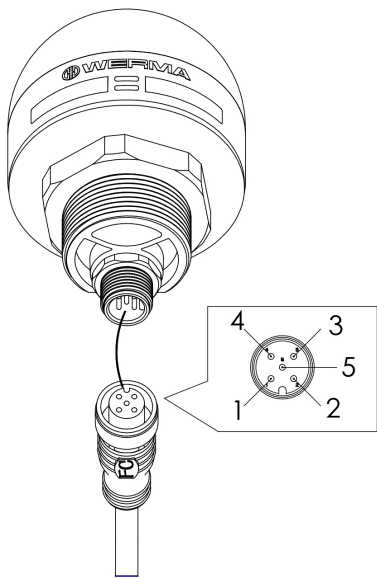


位号	描述
1	USB-C 端口
2	5 引脚 M12 连接器

ZH

6.2.2 5 引脚 M12 连接器概览

MC55 Smart 通过 5 引脚 M12 连接器连接, 引脚分配如下:



M12 引脚分配	M12 电缆导线颜色	功能
1	棕色	信号 1
2	白色	信号 2
3	蓝色	COM
4	黑色	输入或输出 24 V; 200 mA
5	灰色	信号 3

6.3 概览



位号	描述
1	所连接的 MC55 Smart 的型号
2	配置 区域
3	设备信息 区域
4	设置语言
5	支持 区域
6	这个软件 区域
7	固件 区域
8	从文件打开配置
9	编辑现有配置
10	从示例模板导入配置
11	创建新配置
12	调出主屏幕
13	设备选择: eSIGN、MC55 Touch Smart、MC55 High Smart、MC55 Smart

6.3.1 配置区域

在 **配置** 区域中, 有以下配置选项:

- **新的配置**: 创建新配置(请参阅 "创建新配置", S.301)。
- **从模板创建**: 打开标准模板, 这些模板可立即传输到设备(请参阅 "从示例模板导入配置", S.311)。
- **从MC55 Smart加载**: 打开当前配置(可能是出厂设置)进行编辑(请参阅 "从连接的MC55 Smart加载配置", S.312)。
- **从文件加载**: 打开并重用现有配置(请参阅 "从文件打开配置", S.313)。
- **重置为出厂设置**: 将连接的 MC55 Smart 恢复到出厂设置(请参阅 "恢复出厂设置", S.313)。

6.3.2 设备信息区域

在 **设备信息** 区域可访问手册和法律声明。

6.3.3 支持区域

支持 区域显示 WERMA 支持团队的联系方式。

6.3.4 这个软件区域

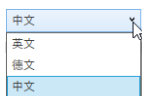
这个软件 区域显示 WERMA - 配置软件 当前版本信息, 并提供配置软件更新选项。

6.3.5 固件区域

固件 区域显示所连 MC55 Smart 的固件信息, 并提供固件更新选项。

6.4 设置语言

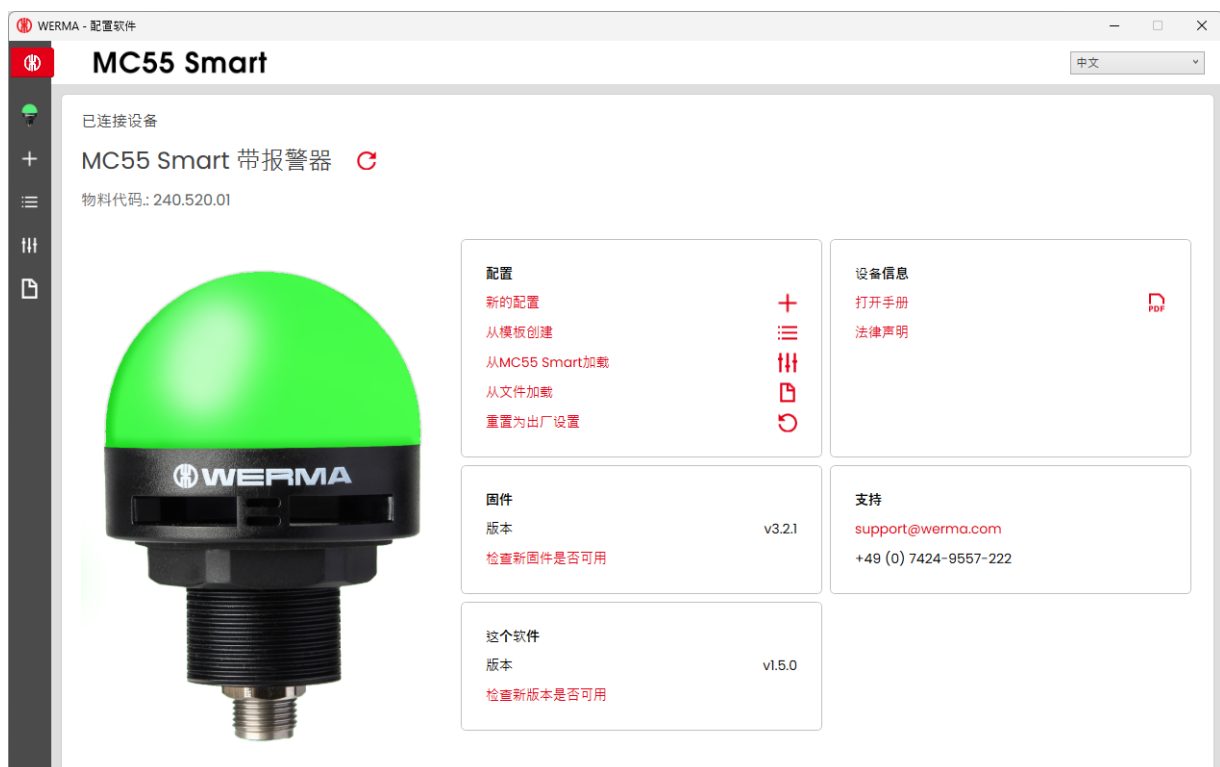
1. 在选择菜单中选择所需的语言。



6.5 创建新配置

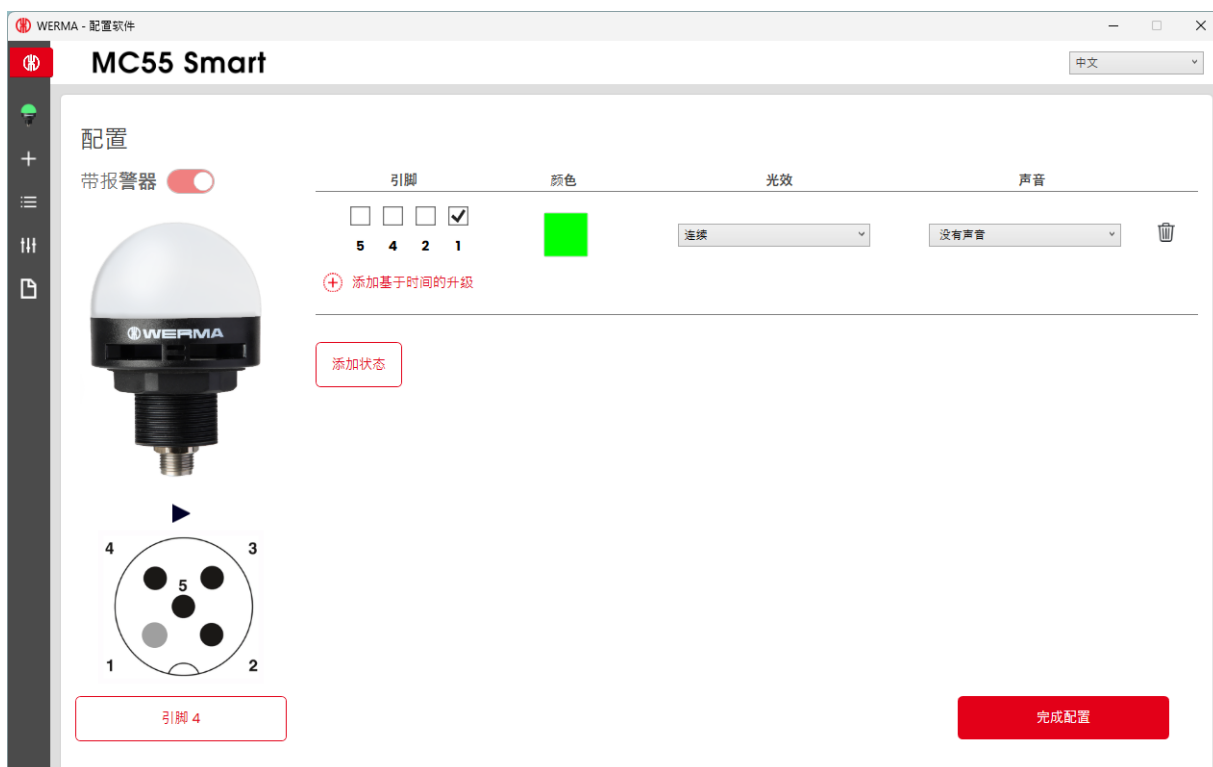
-  无论是否连接 MC55 Smart, 都可以进行配置。
-  MC55 Smart 可以通过 USB 数据线连接到计算机, 同时通过 M12 电缆线连接到 24 V 电源。

1. 通过 USB 数据线将 MC55 Smart 连接至计算机。
→ WERMA - 配置软件 会识别出已连接的 MC55 Smart。



2. 如果 WERMA - 配置软件 无法识别所连接的 MC55 Smart: 点击 **刷新连接的设备**。

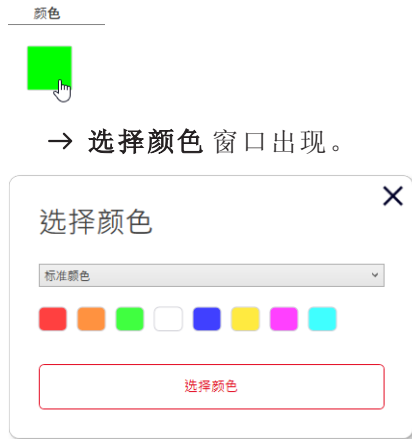
未连接设备 

3. 点击 **配置** 区域的 **新的配置**。→ **配置** 界面出现。

6.5.1 选择颜色

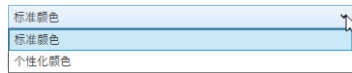
每个状态均可分配预设的标准颜色或自定义颜色。

1. 点击 **颜色** 列中的颜色框。



→ **选择颜色** 窗口出现。

2. 选择是使用标准颜色还是自定义颜色。



6.5.1.1 标准颜色

3. 点击所需的颜色框。

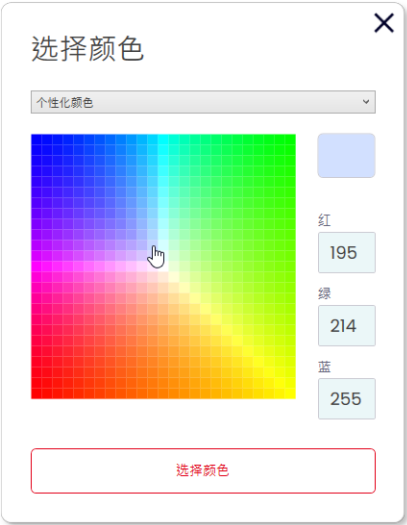


有以下 8 种标准颜色可供选择：

- 红色
- 黄色
- 绿色
- 白色
- 蓝色
- 淡黄色
- 洋红色
- 青色

6.5.1.2 自定义颜色

4. 在颜色框中选择所需的颜色，或在 **红**、**绿** 和 **蓝** 字段中输入相应的 RGB 值。

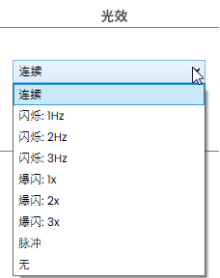


5. 点击 **选择颜色**。



6.5.2 选择灯光效果

1. 点击颜色框旁边的选择菜单，选择所需的灯光效果。



有以下 8 种灯光效果可供选择：

- 持续亮起
- 闪烁: 1 Hz 频率
- 闪烁: 2 Hz 频率
- 闪烁: 3 Hz 频率
- 爆闪: 1x
- 爆闪: 2x
- 爆闪: 3x
- 脉冲
- 关闭



如果引脚分配仅用于声音或持续供电，则可以选择 **无** 设置。

6.5.3 选择报警器

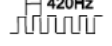
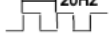
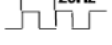
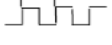
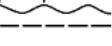
如果所连或所选 MC55 Smart 配备有报警器，则可选择在一个在该状态激活时响起的信号音。

1. 启用 **带报警器** 选项。



2. 点击 **声音** 列的选择菜单，选择所需的声音。

有以下 10 种声音可供选择：

声音	频率	描述	最大分贝 (A)
1	 2.7 kHz	连续音	86
2	 0.9 kHz	连续音	70
3	 420Hz 2.1 kHz	脉冲音	67
4	 20Hz 0.9 kHz	脉冲音	68
5	 20Hz 3.5 kHz	脉冲音	66
6	 1Hz 0.9 kHz	脉冲音	70
7	 1Hz 2.7 kHz	脉冲音	87
8	 0.5 Hz 2.3 kHz - 3.6 kHz	颤音	89
9	 3.5 kHz	连续音	67
10	 1Hz 1.2 kHz - 0.8 kHz	交替音	78

6.5.4 自定义基于时间的升级

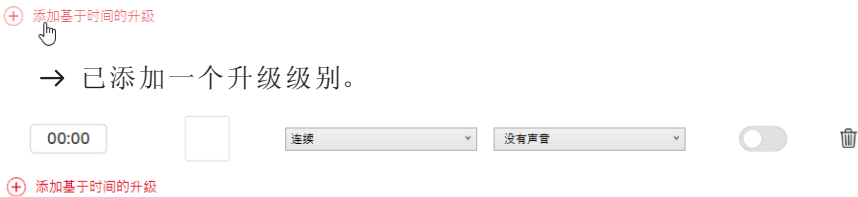
每个状态最多可以配置两个基于时间的升级。

配置基于时间的升级后, 到达设定时间时, 会激活下一次升级。

可以配置每次升级的时间、灯光效果、颜色、报警器(如有)和输出。

6.5.4.1 添加基于时间的升级

1. 点击 **添加基于时间的升级**。



2. 点击 **00:00** 字段并输入升级级别的持续时间。
3. 根据需要调整此升级级别的其他属性(颜色、灯光效果、输出和声音)。

i 每个升级级别的最长持续时间为 60 分钟。

6.5.4.2 删除基于时间的升级

如有需要, 可以删除最后一个升级级别。

1. 在最后一个升级级别中点击 **删除**。



6.5.5 删除一个州

1. 点击 **添加状态**。



6.5.6 删除状态

1. 点击要删除的状态旁的 **删除**。



6.5.7 激活输出

MC55 Smart 的数字 24V 输出 (引脚 4) 可针对每种状态或每个单独的升级级别激活。默认情况下, 引脚 4 配置为输入。

1. 点击 **引脚 4**。



→ **配置引脚 4** 界面出现。

配置引脚 4

输出

模式

输出电路

关闭

无

忽略

保存

2. 启用 **输出** 选项。
3. 选择 **模式** 和 **输出电路**。



在**脉冲**模式下, 输出将产生至少 100 ms 的脉冲信号。

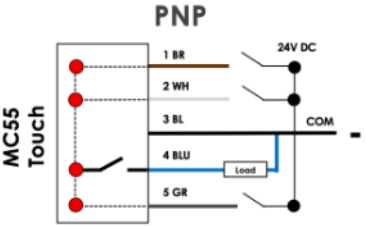
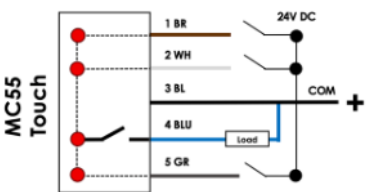


说明

MC55 Smart 或 MC55 High Smart 损坏风险

MC55 Smart 或 MC55 High Smart 可能会因输出配置不当而受损。

1. 因此, 请确保 MC55 Smart 或 MC55 High Smart 的输出配置与所连设备或机器相匹配。

接线	描述	
PNP		- 正向切换 - 正极负载切换到输出端。
NPN		- 负向切换 - 负极负载切换到输出端。

2. 点击 保存。



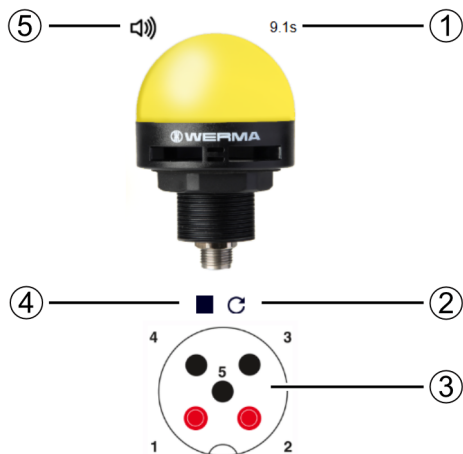
3. 在所需的状态或升级级别下启用 输出: PNP 选项。

引脚	颜色	光效	声音	输出: PNP
☐ 5 ☐ 2 ☒ 1		连续	没有声音	☒
添加基于时间的升级				

6.5.8 模拟启用

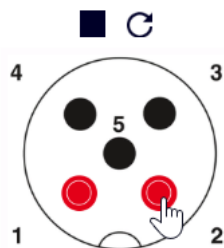
完成所有设置后, 可以进行启用模拟。

模拟会显示灯光效果、基于时间的升级以及输出端(引脚 4)的行为。信号音不会播放, 而是通过图标显示。



位号	描述
1	基于时间的升级: 已过去的时间
2	重启基于时间的升级
3	M12 连接器的引脚
4	▶ 开始模拟 ■ 停止模拟
5	🔊 不发出信号音 🔊 发出信号音

1. 点击 MC55 Smart 图像下方的 ▶。
→ MC55 Smart 会显示初始状态, 以及相应时间过后显示基于时间的升级(如果已配置)。
2. 点击 M12 连接器图示中的一个或多个引脚。



- 模拟将显示 MC55 Smart 在所选引脚接收到信号时的配置行为。
- 如果已配置, 则在设定的时间过后显示基于时间的升级。

3. 点击 MC55 Smart 图像下方的 ■ 即可停止模拟。

6.5.9 完成配置

1. 如有需要, 可对配置进行进一步修改。
2. 根据需要配置完所有级别后, 点击 **完成**。
→ **完成** 窗口出现。



3. 点击 **保存**, 将配置保存在配置文件中。
4. 点击 **发送到设备**, 将配置传输到所连的 MC55 Smart。
5. 点击 **以 PDF 格式显示当前配置**, 查看当前配置的概览。
6. 点击 **保存PDF配置表**, 将当前配置的概览另存为 PDF 文件。

6.6 从示例模板导入配置

WERMA - 配置软件 提供多种预定义配置, 这些配置可以直接传输到所连的 MC55 Smart, 也可以作为自定义配置的参考。

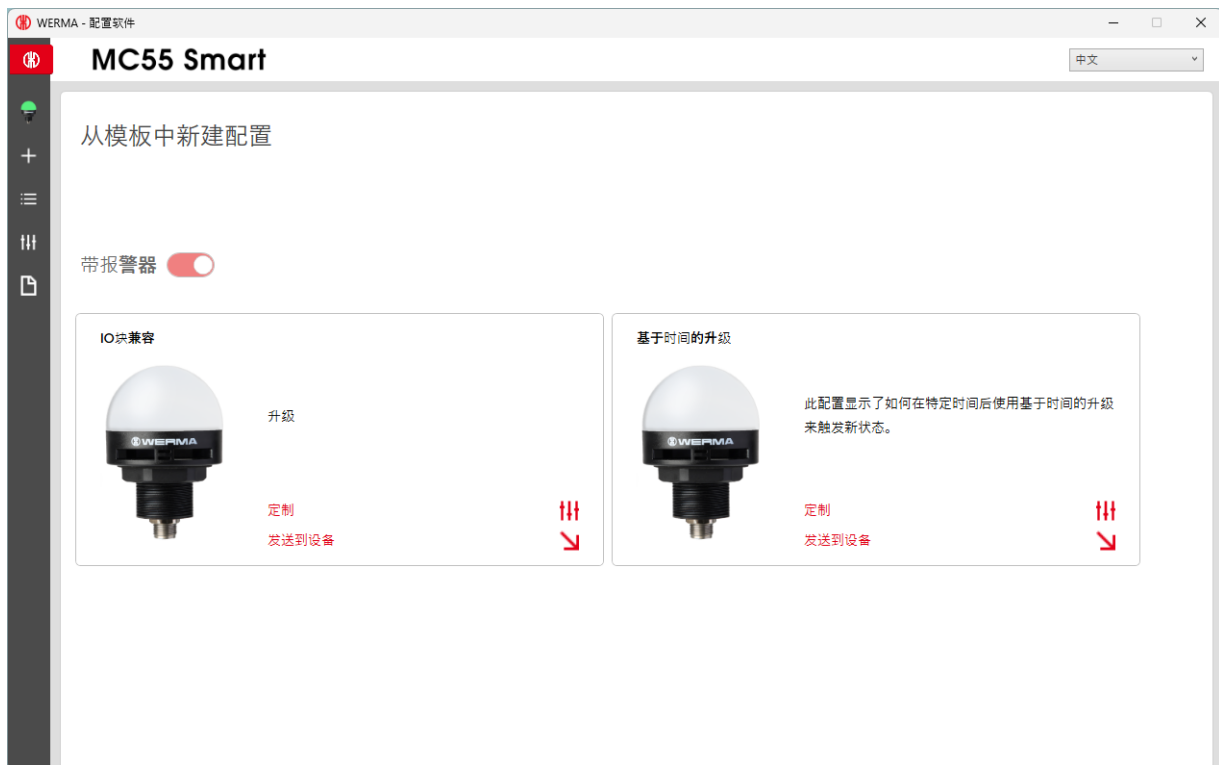
提供以下模板:

模板	描述
IO 模块兼容	此配置可将 MC55 Smart 与 IO 模块配合使用。因此, 引脚 1 和 3 用于持续供电。引脚 2 和 4 用于不同状态的信号传递。
基于时间的升级	此配置展示了基于时间的升级的示例应用, 用于在规定的时间内显示新的状态。

1. 点击 **配置** 区域的 **从模板创建**。



→ 从模板中新建配置 窗口出现。



2. 点击所需模板上的 **定制**, 以加载模板并继续编辑。

3. 点击 **发送到设备** 以加载模板, 并直接将其传输到所连的 MC55 Smart。

 有关配置的详细信息, 请参阅 "创建新配置", S. 301。

6.7 从连接的 MC55 Smart 加载配置

如果 MC55 Smart 连接到计算机, WERMA - 配置软件 会提供 "打开当前配置 (可能是出厂设置) 进行编辑" 选项。如果没有连接 MC55 Smart, 该菜单项将呈灰色显示。

1. 点击 **配置** 区域的 **从MC55 Smart加载**。



→ **配置** 窗口会以设置的模式显示, 并且已填充当前配置。

 有关配置的详细信息, 请参阅 "创建新配置", S. 301。

6.8 从文件打开配置

1. 点击 **配置** 区域的 **从文件加载**。



2. 选择所需的配置文件并点击 **打开**。

 也可以通过侧边菜单显示最近使用过的配置(请参阅"概览",S.299)。

6.9 恢复出厂设置

如果需要, 可将 MC55 Smart 恢复到出厂设置。

1. 点击 **重置为出厂设置**。



→ MC55 Smart 将恢复为出厂设置。

6.10 更新固件



要进行固件更新, 计算机必须连接到互联网, 且必须连接 MC55 Smart。

1. 点击 **固件** 区域的 **检查新固件是否可用**。



- WERMA - 配置软件 会搜索所连的 MC55 Smart 是否有固件更新。
- 发现有更新包后, 会显示相应的消息。



2. 点击 **开始下载新固件**。
 - 新固件将传输至所连的 MC55 Smart。

7 更新 WERMA - 配置软件

 要进行软件更新, 计算机必须连接到互联网。

1. 点击 **这个软件** 区域的 **检查新版本是否可用**。



- WERMA - 配置软件 会搜索软件更新。
- 发现有更新包后, 会显示相应的消息。

8 支持



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COMPONENTS CONTAINED IN THE DEVICE	1
I. Newlib	2
II. Xtensa header files.....	26
III. Original parts of FreeRTOS	26
IV. FatFS library	27
V. SPIFFS library	27
VI. TLSF allocator Two Level Segregated Fit memory allocator	28
VII. HTTP Parser Based on src/http/nginx_http_parse.c.....	29
VIII. miniz.....	29
IX. tinyuf2.....	30
X. cJSON	31
XI. Xtensa libhal	31
XII. TinyBasic Plus	32
XIII. wpa_supplicant	32
XIV. TJpgDec	33
XV. tinyusb.....	34

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10. Stephane Carrez (m68hc11-elf/m68hc12-elf targets only)

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IX. tinyuf2

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