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

Version: 3.0 - 10/2024

310.657.006

**Deutsch** ..... **5**

**English** ..... **93**

**中文 (中国)** ..... **181**


Handbuch

# WERMA - Konfigurationssoftware

Version: 3.0 - 10/2024

310.657.006

DE

**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:

– Microsoft Windows 10 und Windows 11 sind Marken der Microsoft Corporation.

Irrtum, Druckfehler und technische Änderungen vorbehalten.

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# Inhaltsverzeichnis

DE


**1 Überblick ... 9**

1.1 Funktion ... 9
1.2 Systemanforderungen ... 9

**2 WERMA - Konfigurationssoftware installieren ... 10**

**3 WERMA - Konfigurationssoftware starten ... 10**

**4 eSIGN konfigurieren ... 11**

4.1 Funktion ... 11
4.2 Hardware-Beschreibung ... 11
4.2.1 Übersicht Anschlussbereich ... 12
4.2.2 Übersicht M12-Stecker 8-polig ... 13
4.3 Überblick ... 14
4.3.1 Bereich Konfiguration ... 15
4.3.2 Bereich Geräteinformation ... 15
4.3.3 Bereich Support ... 15
4.3.4 Bereich Diese Software ... 15
4.3.5 Bereich Firmware ... 15
4.4 Sprache einstellen ... 15
4.5 Neue Konfiguration erstellen ... 16
4.5.1 Modus Autoscale ... 18
4.5.2 Modus Signalsäule ... 28
4.5.3 Modus Füllstand ... 38
4.5.4 Modus Individual ... 52
4.6 Konfiguration aus Beispielvorlagen übernehmen ... 65
4.7 Konfiguration von der angeschlossenen eSIGN laden ... 67
4.8 Bestehende Konfiguration öffnen ... 68
4.9 Firmware aktualisieren ... 69

**5 MC55 Touch S konfigurieren ... 70**

5.1 Funktion ... 70
5.2 Hardware-Beschreibung ... 70
5.2.1 Übersicht Anschlussbereich ... 70
5.2.2 Übersicht M12-Stecker 5-polig ... 71
5.2.3 Standardeinstellung ... 71
5.3 Überblick ... 72
5.3.1 Bereich Konfiguration ... 73
5.3.2 Bereich Geräteinformation ... 73
5.3.3 Bereich Support ... 73
5.3.4 Bereich Diese Software ... 73
5.3.5 Bereich Firmware ... 73

DE

5.4 Sprache einstellen ... 73
5.5 Neue Konfiguration erstellen ... 74
5.5.1 Signaleingang wählen ... 76
5.5.2 Modus ändern ... 77
5.5.3 Zustände anpassen ... 79
5.5.4 Farbe wählen ... 80
5.5.5 Leuchteffekt wählen ... 81
5.5.6 Sirene wählen ... 82
5.5.7 Zeitbasierte Eskalation anpassen ... 83
5.5.8 Ausgang aktivieren ... 85
5.5.9 Ansteuerung simulieren ... 86
5.5.10 Konfiguration abschließen ... 86
5.6 Konfiguration aus Beispielvorlagen übernehmen ... 87
5.7 Konfiguration vom angeschlossenen MC55 Touch S laden ... 89
5.8 Bestehende Konfiguration öffnen ... 90
5.9 Firmware aktualisieren ... 90

**6 WERMA - Konfigurationssoftware aktualisieren ... 91**

**7 Support ... 92**

# 1 Überblick

## 1.1 Funktion

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

- e*SIGN* Signalsäule
- MC55 Touch S

ⓘ Die zur Verfügung stehenden Geräte sind marktabhängig.

## 1.2 Systemanforderungen

| | |
|---|---|
| Betriebssystem | Windows 10 x86/x64<br>Windows 11<br>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.

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# 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 e*SIGN* konfigurieren

## 4.1 Funktion

Mit der neuen e*SIGN* 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 e*SIGN* 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 e*SIGN* konfiguriert und die Konfiguration auf die e*SIGN* übertragen werden.

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

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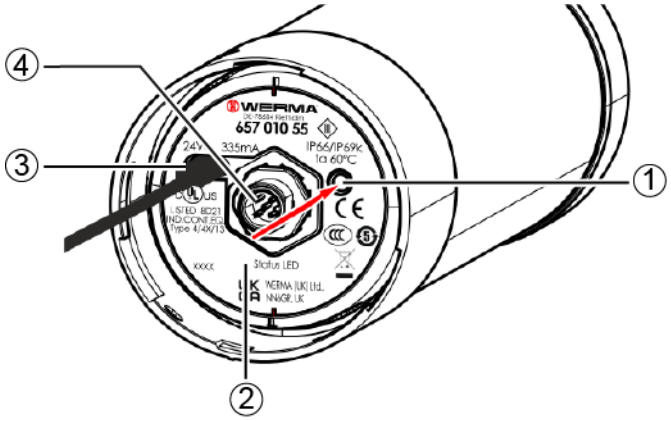
## 4.2.1 Übersicht Anschlussbereich



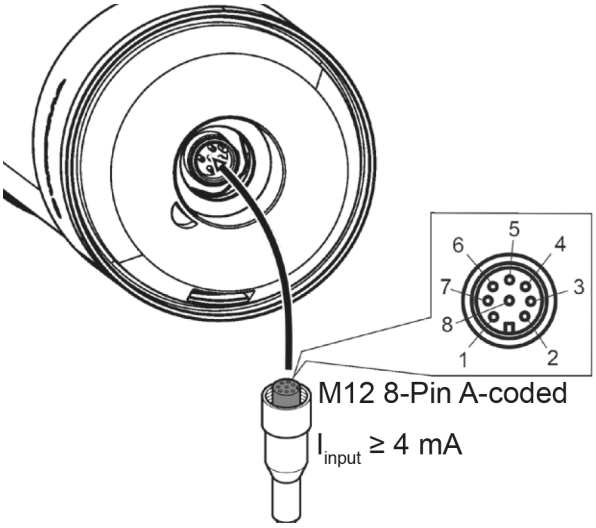

| Pos. | Beschreibung |
|---|---|
| 1 | User-Button |
| 2 | Status-LED |
| 3 | USB-C-Anschluss |
| 4 | M12-Stecker 8-polig |

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

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

## 4.2.2 Übersicht M12-Stecker 8-polig

Der Anschluss der e*SIGN* 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 |

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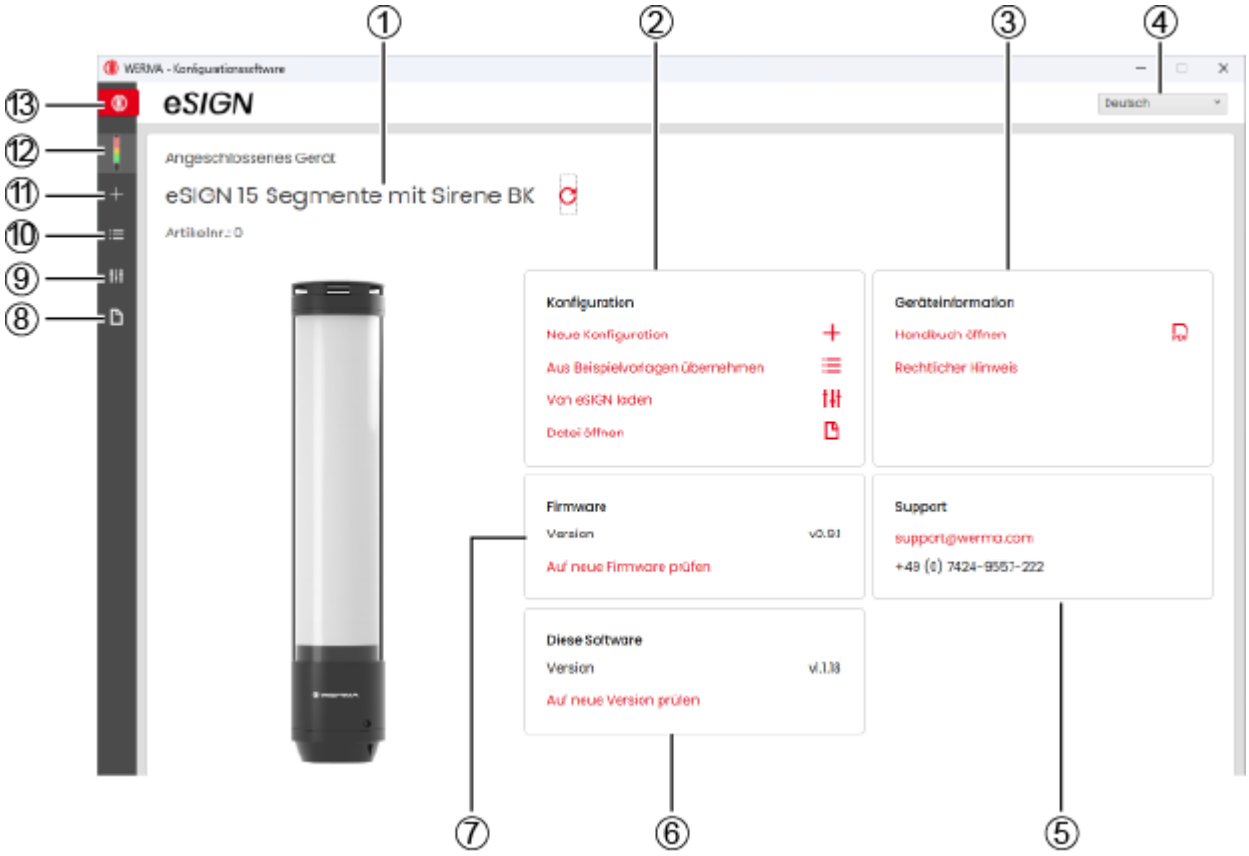
# 4.3 Überblick




| Pos. | Beschreibung |
|---|---|
| 1 | Variante der angeschlossenen e*SIGN* |
| 2 | Bereich **Konfiguration** |
| 3 | Bereich **Geräteinformation** |
| 4 | Sprache einstellen |
| 5 | Bereich **Support** |
| 6 | Bereich **Diese Software** |
| 7 | Bereich **Firmware** |
| 8 | Bestehende Konfiguration öffnen |
| 9 | Konfiguration von der e*SIGN* laden |
| 10 | Konfiguration aus Beispielvorlagen übernehmen |
| 11 | Neue Konfiguration erstellen |
| 12 | Startbildschirm aufrufen |
| 13 | Geräteauswahl |

### 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. 16).
- **Aus Beispielvorlagen übernehmen**: Standard-Vorlagen öffnen, die sofort auf das Gerät überspielt werden können (siehe "*Konfiguration aus Beispielvorlagen übernehmen*", S. 65).
- **Von eSIGN laden**: Aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung öffnen (siehe "*Konfiguration von der angeschlossenen eSIGN laden*", S. 67).
- **Datei öffnen**: Eine bestehende Konfiguration öffnen und wiederverwenden (siehe "*Bestehende Konfiguration öffnen*", S. 68).

### 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

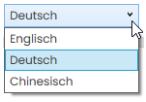
Im Bereich **Diese Software** wird der Versionsstand der WERMA - Konfigurationssoftware angezeigt und eine Möglichkeit zur Aktualisierung der Konfigurationssoftware angeboten.

### 4.3.5 Bereich Firmware

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

## 4.4 Sprache einstellen

**1.** Im Auswahlmenü die gewünschte Sprache wählen.



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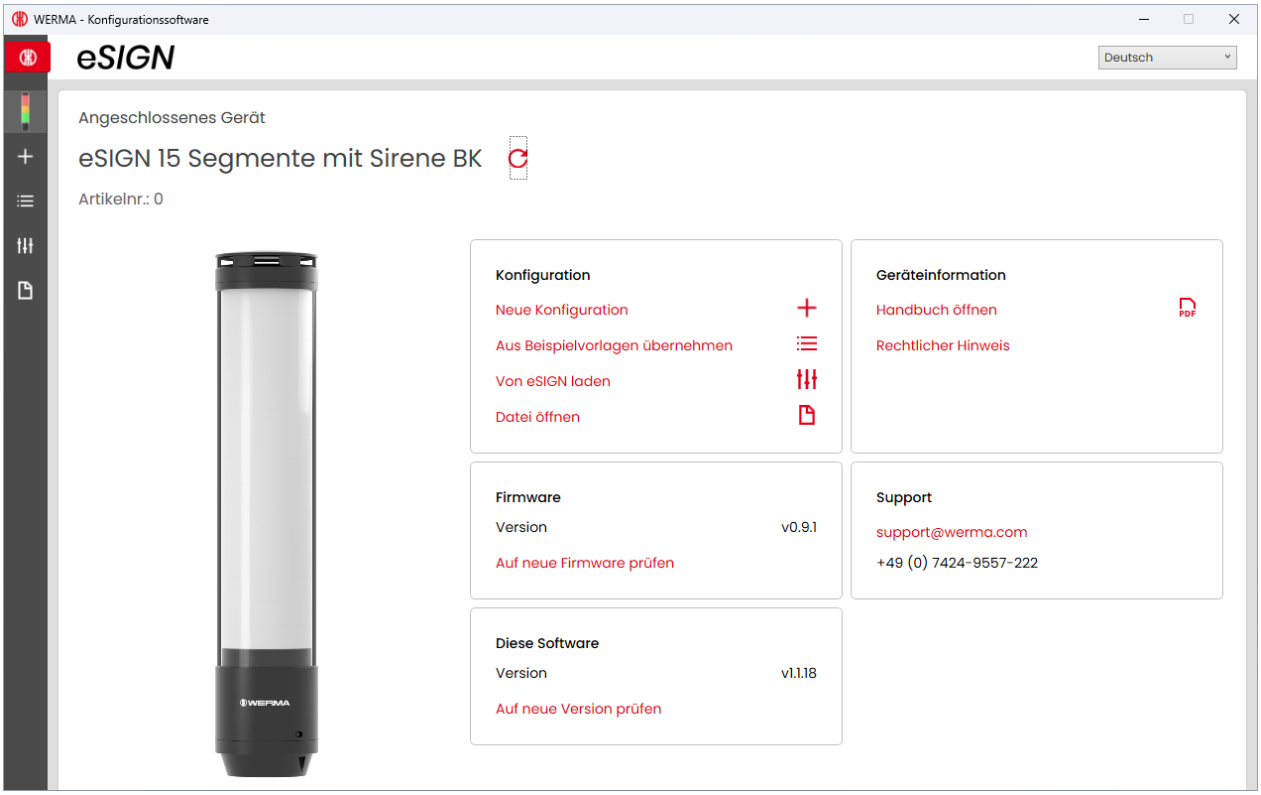
# 4.5 Neue Konfiguration erstellen

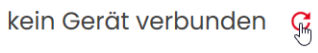
ⓘ Die Konfiguration kann mit oder ohne angeschlossener e*SIGN* durchgeführt werden.

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

1. e*SIGN* per USB-Kabel an Computer anschließen.
   → Die WERMA - Konfigurationssoftware erkennt die angeschlossene e*SIGN*.

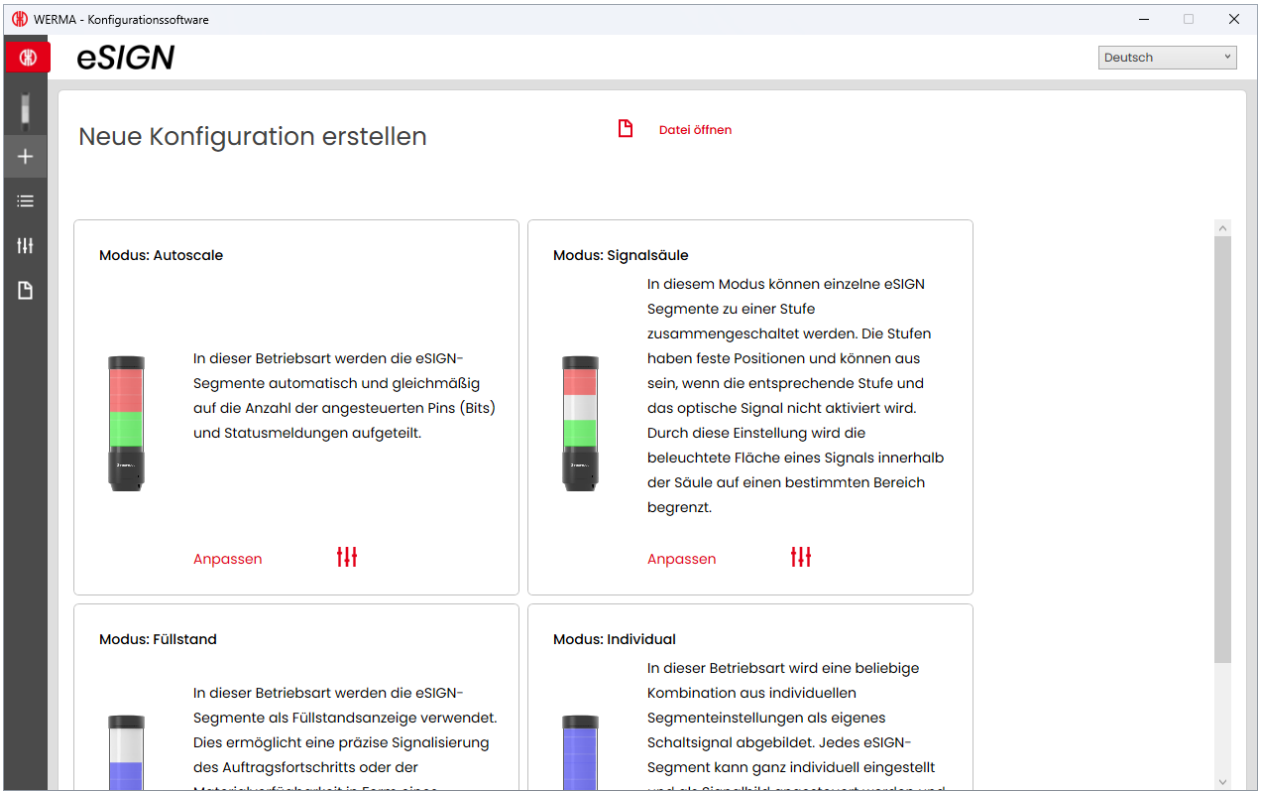



2. Falls die WERMA - Konfigurationssoftware die angeschlossene e*SIGN* nicht erkennt: Auf **Angeschlossenes Gerät aktualisieren** klicken.

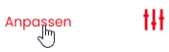


**3.** Im Bereich **Konfiguration** auf **Neue Konfiguration** klicken.

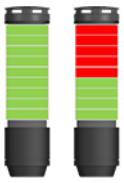

→ Der Bildschirm **Neue Konfiguration erstellen** erscheint.




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



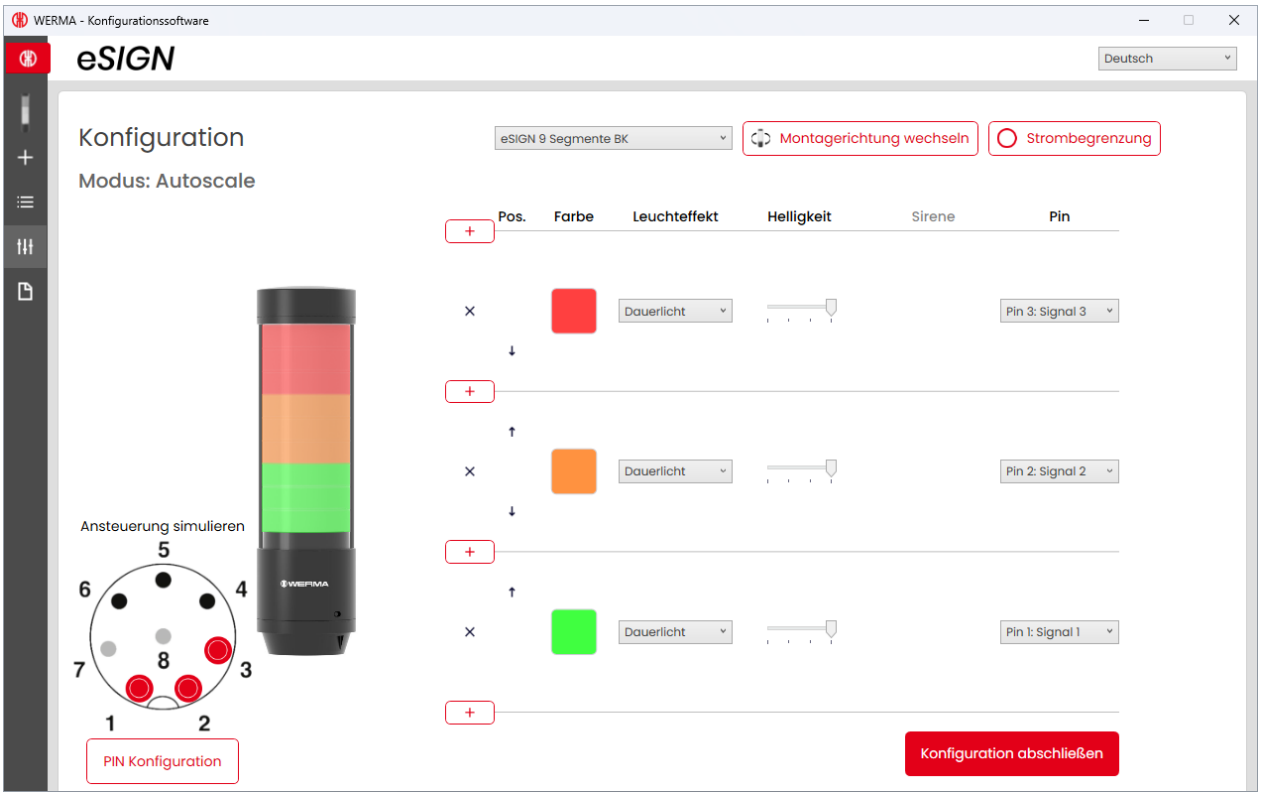
## 4.5.1 Modus Autoscale



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

Mit dieser Einstellung kann das volle Potenzial der e*SIGN* durch eine vollflächige Signalisierung ausgeschöpft werden. Ist z. B. nur eine Statusmeldung aktiv, wird die gesamte Fläche der e*SIGN* 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.




Bei Bedarf kann die Ausrichtung der dargestellten Signalsäule über die Schaltfläche **Montagerichtung 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 e*SIGN* 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:

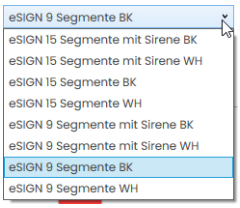
- Varianten mit 9 Segmenten:
  - 3 Stufen rot/gelb/grün
  - Dauerlicht
- Varianten mit 15 Segmenten:
  - 5 Stufen rot/gelb/grün/weiß/blau
  - Dauerlicht

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

### 4.5.1.1 e*SIGN*-Variante wählen

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

**1.** Bei Bedarf die Variante der zu konfigurierenden e*SIGN* wählen.



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## 4.5.1.2 Stufe hinzufügen oder entfernen

Sobald im Modus **Autoscale** eine Stufe hinzugefügt oder entfernt wird, werden die einzelnen e*SIGN*-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.

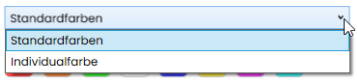
### 4.5.1.4 Farbe wählen

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

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


→ 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
- violett
- türkis

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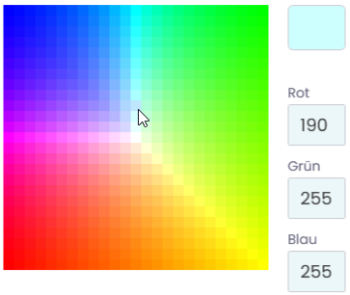
### Individualfarbe

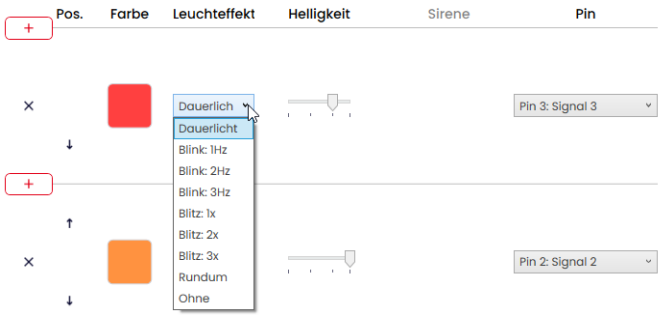
1. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.




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
- Ohne

---

ⓘ Die Einstellung **Ohne** 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

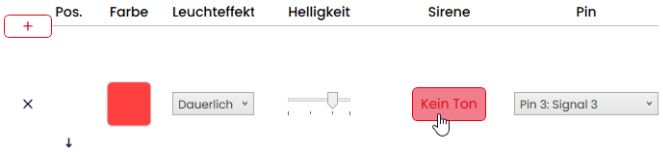
Falls die angeschlossene oder gewählte e*SIGN* eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung der Stufe ertönt.

---

ⓘ 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.

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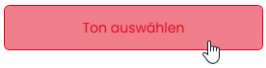
**2.** Den gewünschten **Ton**, die gewünschte **Lautstärke** und **Max. Abspieldauer** wählen.

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 2.8 kHz | Pulston | 97 |
| 4 | 20Hz 0.9 kHz | Pulston | 93 |
| 5 | 20Hz 2.8 kHz | Pulston | 103 |
| 6 | 1Hz 0.9 kHz | Pulston | 96 |
| 7 | 1Hz 2.8 kHz | Pulston | 104 |
| 8 | 0.5 Hz 2.3 kHz- 3.6 kHz | Wobbelton | 104 |
| 9 | 2.6 kHz | Dauerton | 105 |
| 10 | 1Hz 1200 Hz 800 Hz | Wechselton | 92 |

ⓘ 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.

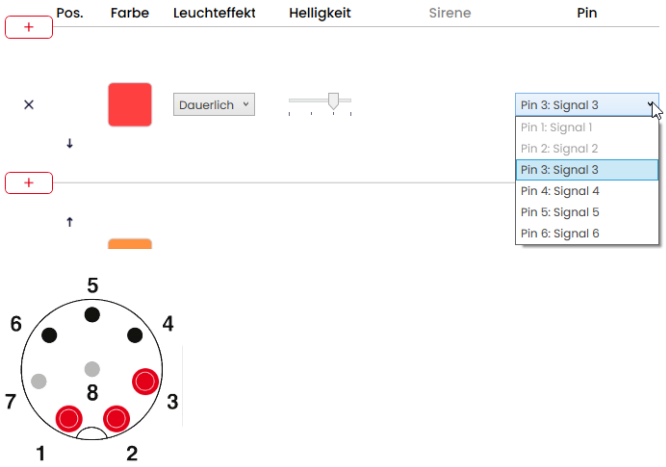


## 4.5.1.8 Pin wählen

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.

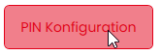
1. In der Spalte **Pin** den Pin des 8-poligen Steckers wählen, auf dem das Signal zum Auslösen der Stufe gesendet wird.




### 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 **PIN Konfiguration** klicken.



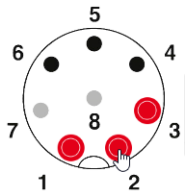

→ Das Fenster **PIN Konfiguration** erscheint.


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.

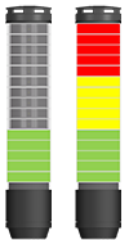


### 4.5.1.10 Konfiguration abschließen

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

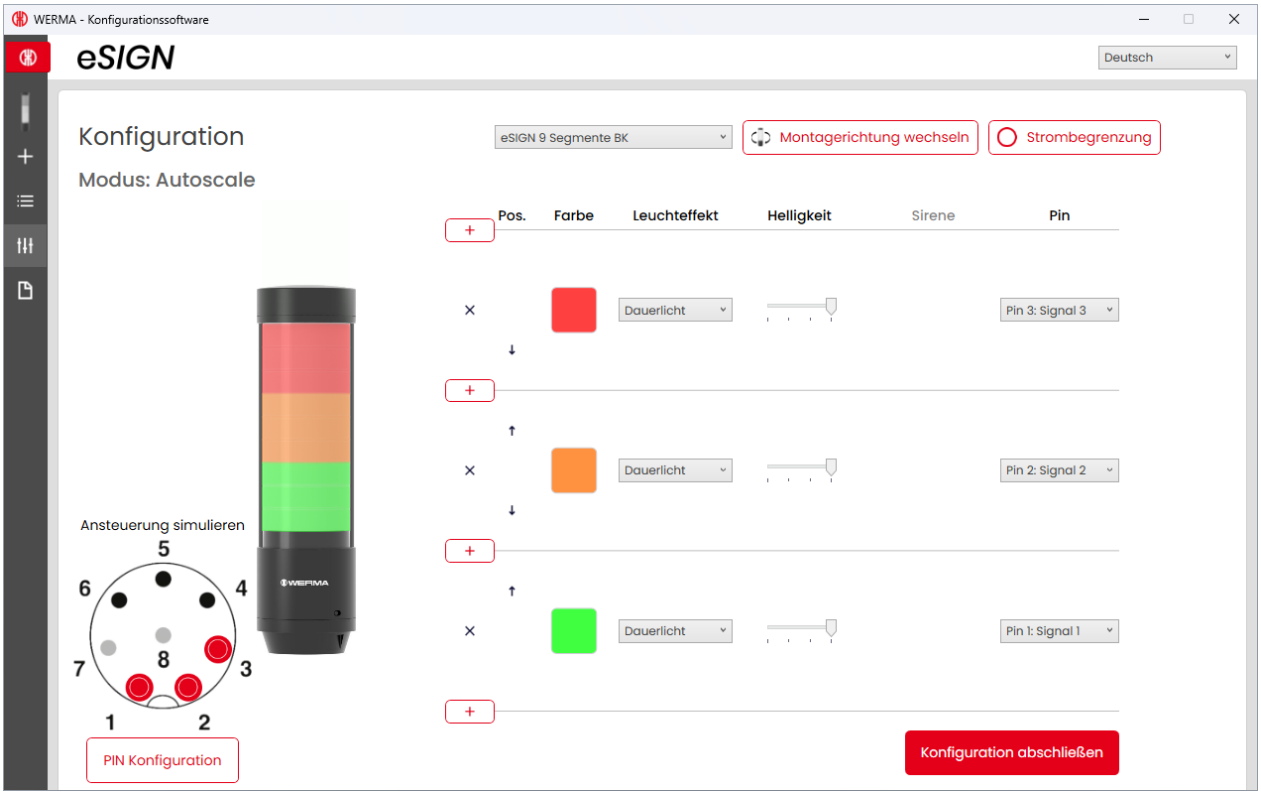

3. Auf **Speichern** klicken, um die Konfiguration in einer Konfigurationsdatei zu speichern.
4. Auf **Auf Gerät übertragen** klicken, um die Konfiguration auf die angeschlossene e*SIGN* zu übertragen.
5. Auf **PDF-Konfigurationsblatt anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration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

## 4.5.2 Modus Signalsäule



Einzelne e*SIGN*-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.



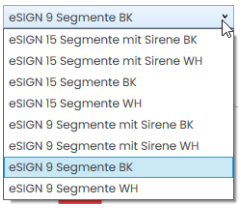

Bei Bedarf kann die Ausrichtung der dargestellten Signalsäule über die Schaltfläche **Montagerichtung wechseln** um 180° gedreht werden.

Bei Bedarf (z. B. um die Strombegrenzungen von Steuerungsausgängen berücksichtigen zu können) kann über die Schaltfläche **Strombegrenzung** die Leistungsaufnahme der e*SIGN* 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 e*SIGN*-Variante wählen

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

1. Bei Bedarf die Variante der zu konfigurierenden e*SIGN* wählen.




### 4.5.2.2 Stufe hinzufügen oder entfernen

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

#### Stufe hinzufügen

1. Auf **Hinzufügen** klicken.



→ Eine Stufe wurde hinzugefügt.

#### Stufe entfernen

1. Auf **Entfernen** klicken.

→ Eine Stufe wurde entfernt.

DE

### 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.

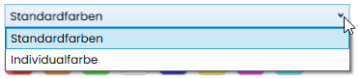

### 4.5.2.4 Farbe wählen

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
- violett
- türkis

## Individualfarbe

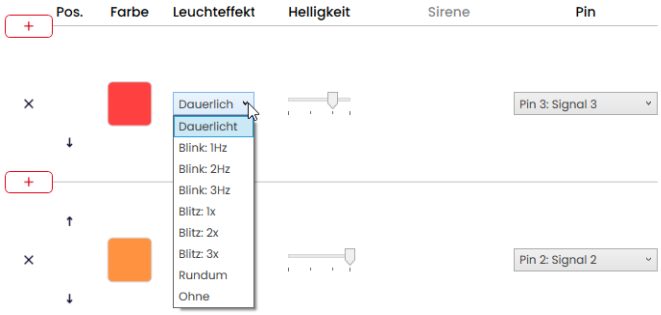
1. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.


2. Auf **Farbe auswählen** klicken.

DE

### 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
- Ohne

---

ⓘ Die Einstellung **Ohne** 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

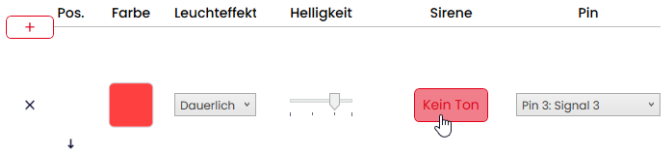
Falls die angeschlossene oder gewählte e*SIGN* eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung der Stufe ertönt.

---

ⓘ 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.



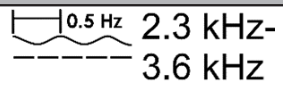
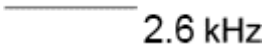
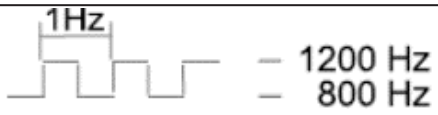

→ Das Fenster **Ton auswählen** erscheint.


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

Folgende 10 Tonarten stehen zur Verfügung:

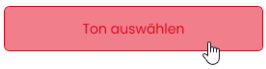
| Ton | Frequenz | Beschreibung | Max. dB (A) |
|---|---|---|---|
| 1 | 2.7 kHz | Dauerton | 104 |
| 2 | 0.9 kHz | Dauerton | 96 |
| 3 | 420Hz 2.8 kHz | Pulston | 97 |
| 4 | 20Hz 0.9 kHz | Pulston | 93 |
| 5 | 20Hz 2.8 kHz | Pulston | 103 |
| 6 | 1Hz 0.9 kHz | Pulston | 96 |
| 7 | 1Hz 2.8 kHz | Pulston | 104 |

DE

| Ton | Frequenz | Beschreibung | Max. dB (A) |
|---|---|---|---|
| 8 |  | Wobbelton | 104 |
| 9 |  | Dauerton | 105 |
| 10 |  | Wechselton | 92 |

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.

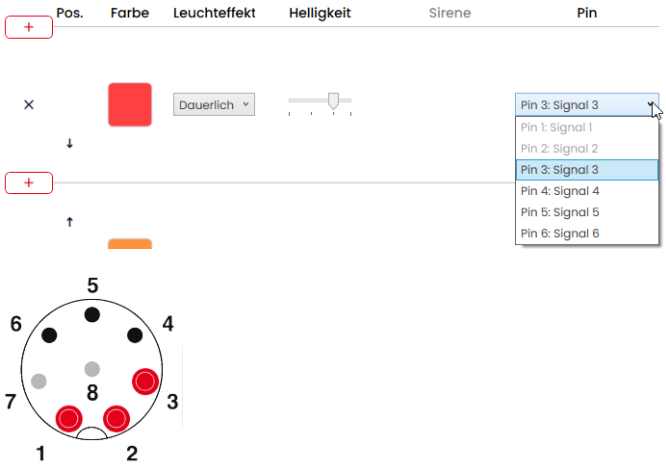


## 4.5.2.8 Pin wählen

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.

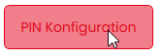
1. In der Spalte **Pin** den Pin des 8-poligen Steckers wählen, auf dem das Signal zum Auslösen der Stufe gesendet wird.




### 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 **PIN Konfiguration** klicken.



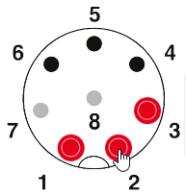

→ Das Fenster **PIN Konfiguration** erscheint.


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.



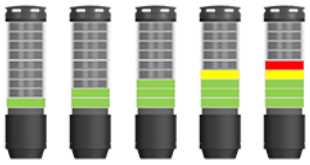
### 4.5.2.10 Konfiguration abschließen

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

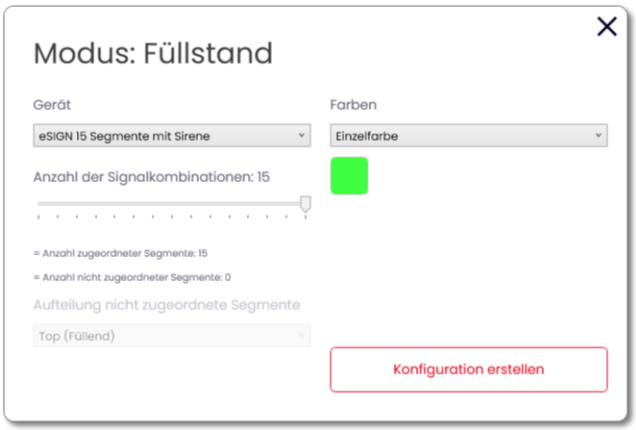

3. Auf **Speichern** klicken, um die Konfiguration in einer Konfigurationsdatei zu speichern.
4. Auf **Auf Gerät übertragen** klicken, um die Konfiguration auf die angeschlossene e*SIGN* zu übertragen.
5. Auf **PDF-Konfigurationsblatt anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration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

DE

## 4.5.3 Modus Füllstand



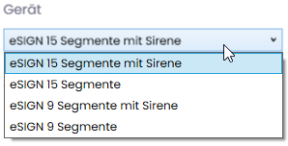
In dieser Betriebsart werden die e*SIGN*-Segmente als Füllstandanzeige verwendet. Dies ermöglicht eine präzise Signalisierung des Auftragsfortschritts oder der Materialverfügbarkeit in Maschinenprozessen in Form eines aufbauenden oder abfallenden Leuchtbilds.




### 4.5.3.1 e*SIGN*-Variante wählen

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

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



### 4.5.3.2 Anzahl der Signalkombinationen wählen

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

Falls nicht alle e*SIGN*-Segmente für die Füllstandanzeige verwendet werden:

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

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

DE

### 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.

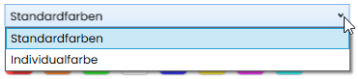
Bei Bedarf kann die Farbe jedes einzelnen Segments der Füllstandanzeige zu einem späteren Zeitpunkt angepasst werden.

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

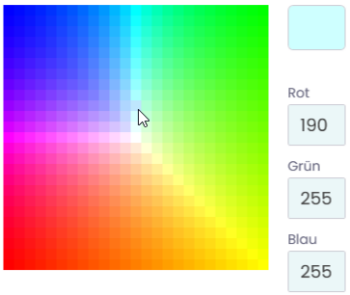
1. Auf das gewünschte Farbfeld klicken.

Folgende 8 Standardfarben stehen zur Verfügung:

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

#### Individualfarbe

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



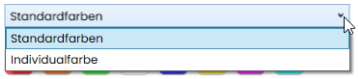

2. Auf **Farbe auswählen** klicken.


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.



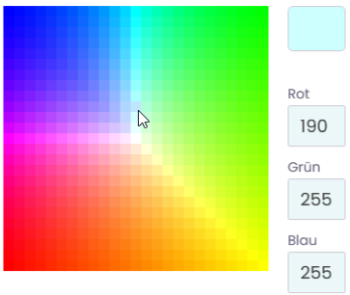

## Standardfarbe

1. Auf das gewünschte Farbfeld klicken.

DE

### Individualfarbe

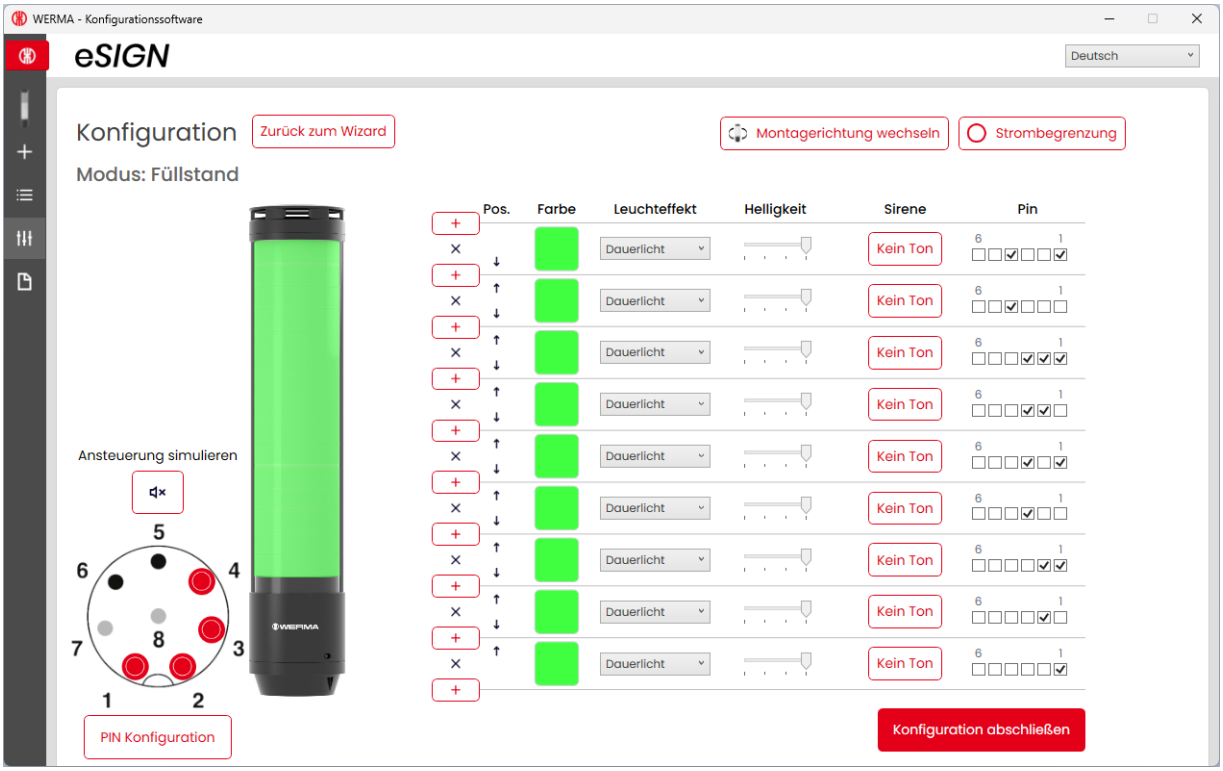
1. Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Felder **Rot**, **Grün** und **Blau** eingeben.




2. Auf **Farbe auswählen** klicken.


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

## 4.5.3.4 Füllstandanzeige konfigurieren




ⓘ Bei Bedarf kann die Ausrichtung der dargestellten Signalsäule über die Schaltfläche **Montagerichtung 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 e*SIGN* 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.

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

DE

## Segmente entfernen oder hinzufügen

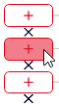
### Segment entfernen

1. Auf **Entfernen** klicken.

→ Das Segment wurde entfernt.

### Segment hinzufügen

1. Auf **Hinzufügen** klicken.

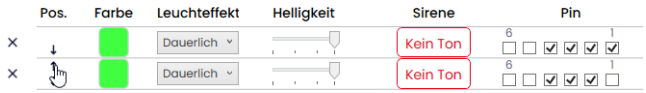


→ Das Segment wurde hinzugefügt.

## Segmente verschieben

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

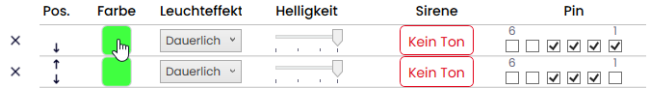
1. In der Spalte **Pos.** auf den Pfeil nach oben oder auf den Pfeil nach unten klicken, um das Segment nach oben bzw. nach unten zu verschieben.



## Farbe wählen

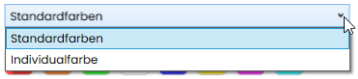
Für jedes einzelne Segment kann bei Bedarf eine vorgegebene Standardfarbe gewählt oder eine individuelle Farbe zugewiesen werden.

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




→ Das Fenster **Farbe auswählen** erscheint.


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




## Standardfarbe

1. Auf das gewünschte Farbfeld klicken.

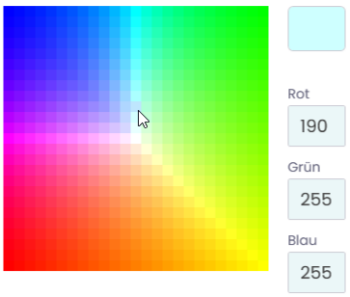
Folgende 8 Standardfarben stehen zur Verfügung:

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

DE

### 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.


Folgende 8 Leuchteffekte stehen zur Verfügung:

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

ⓘ Die Einstellung **Ohne** 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.


## Sirene wählen

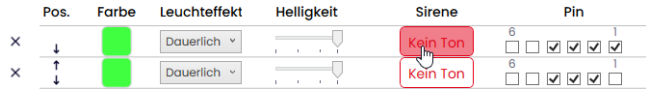
Falls die angeschlossene oder gewählte e*SIGN* eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung des Segments ertönt.

---

ⓘ 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.



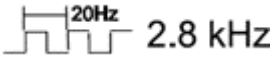
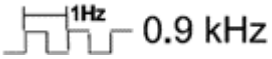
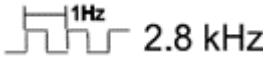
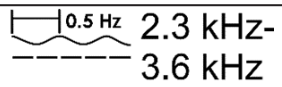
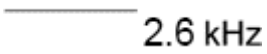
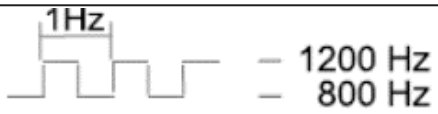

→ Das Fenster **Ton auswählen** erscheint.


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

Folgende 10 Tonarten stehen zur Verfügung:

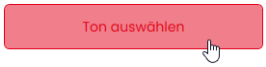
| Ton | Frequenz | Beschreibung | Max. dB (A) |
|---|---|---|---|
| 1 | 2.7 kHz | Dauerton | 104 |
| 2 | 0.9 kHz | Dauerton | 96 |
| 3 | 420Hz 2.8 kHz | Pulston | 97 |
| 4 | 20Hz 0.9 kHz | Pulston | 93 |

DE

| Ton | Frequenz | Beschreibung | Max. dB (A) |
|---|---|---|---|
| 5 |  | Pulston | 103 |
| 6 |  | Pulston | 96 |
| 7 |  | Pulston | 104 |
| 8 |  | Wobbelton | 104 |
| 9 |  | Dauerton | 105 |
| 10 |  | Wechselton | 92 |

ⓘ 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

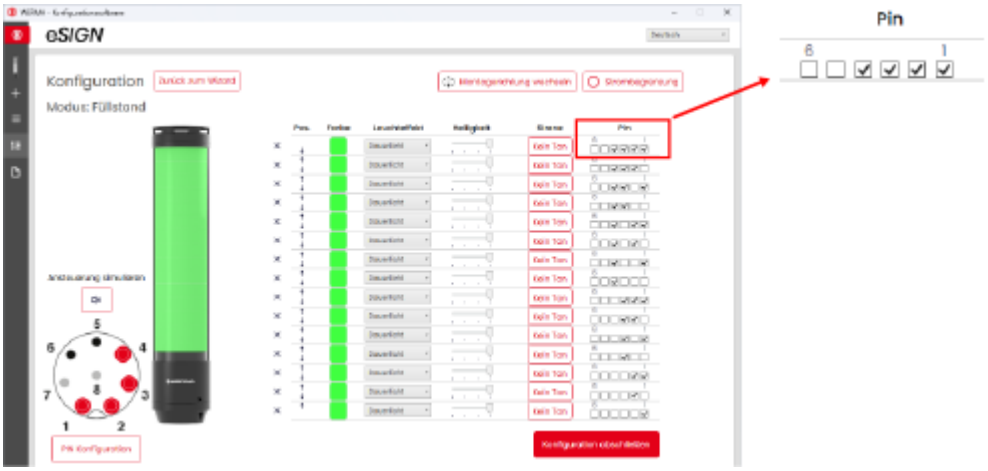
Die Felder sind mit einer Standardbelegung vorkonfiguriert, von der unteren Stufe der Säule beginnend mit Pin 1.

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

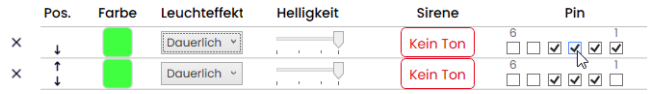
Die Ansteuerung der Füllstandanzeige erfolgt über eine Bit-Codierung. Die Kontrollkästchen in der Spalte **Pin** entsprechen den 6 Pins bzw. Signalleitungen. Das Setzen eines Hakens in einem oder mehreren Kontrollkästchen zeigt an, dass diese Pins bzw. Signalleitungen angesteuert werden müssen, um die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

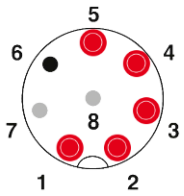
**Beispiel:**

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




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



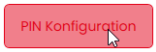



DE

### 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 **PIN Konfiguration** klicken.



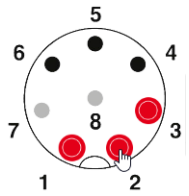

→ Das Fenster **PIN Konfiguration** erscheint.


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 e*SIGN* zu übertragen.
5. Auf **PDF-Konfigurationsblatt anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration anzuzeigen.
6. Auf **PDF-Konfigurationsblatt speichern** klicken, um die Übersicht der aktuellen Konfiguration als PDF-Datei zu speichern.

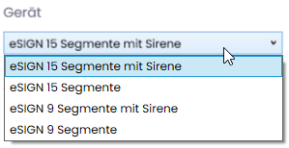
## 4.5.4 Modus Individual

In dieser Betriebsart wird eine beliebige Kombination aus individuellen Segmenteinstellungen als eigenes Schaltsignal abgebildet. Jedes e*SIGN*-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 e*SIGN*-Variante wählen

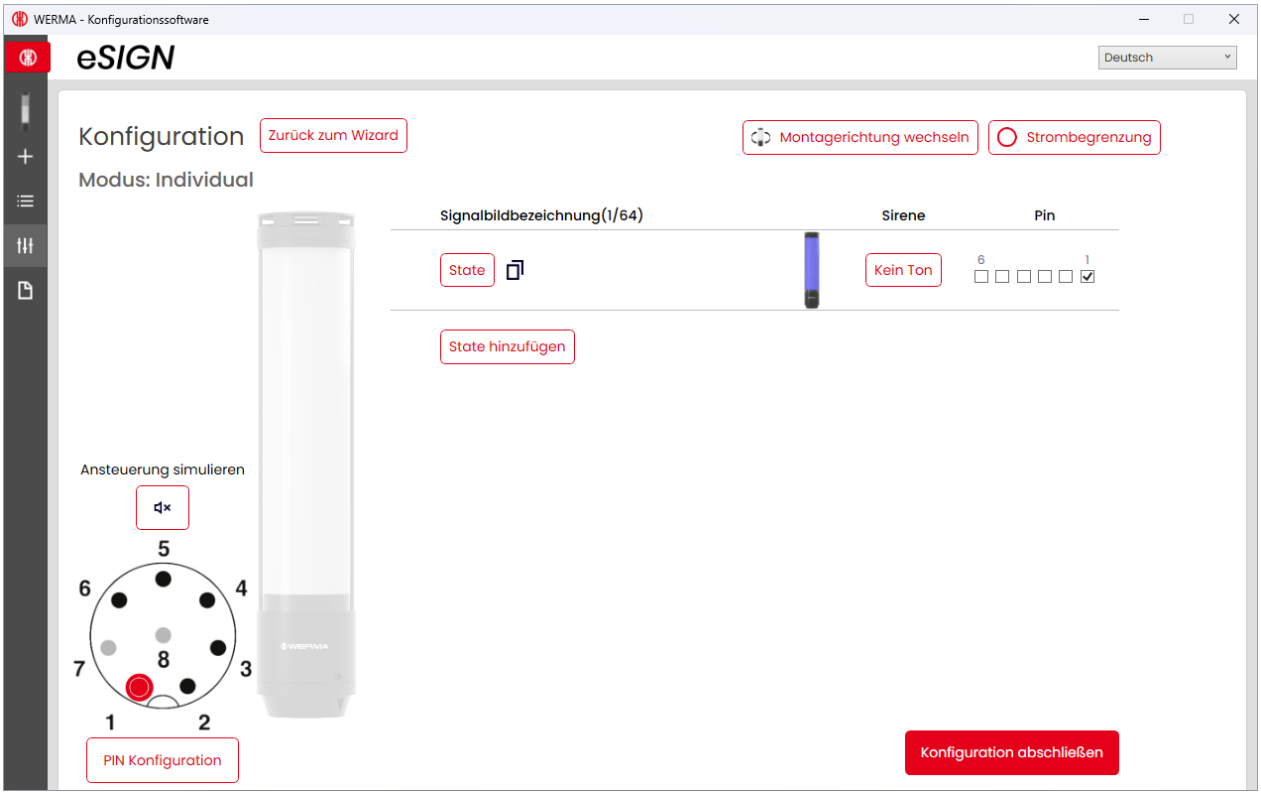
Falls eine e*SIGN* angeschlossen wurde, ist die Variante entsprechend vorausgewählt. Falls keine e*SIGN* angeschlossen wurde, kann die Variante der zu konfigurierenden e*SIGN* gewählt werden.

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




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

## 4.5.4.2 Signalbilder konfigurieren




ⓘ Bei Bedarf kann die Ausrichtung der dargestellten Signalsäule über die Schaltfläche **Montagerichtung 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 e*SIGN* 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.

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

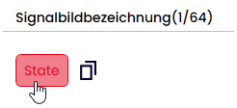
DE

## Signalbild anpassen

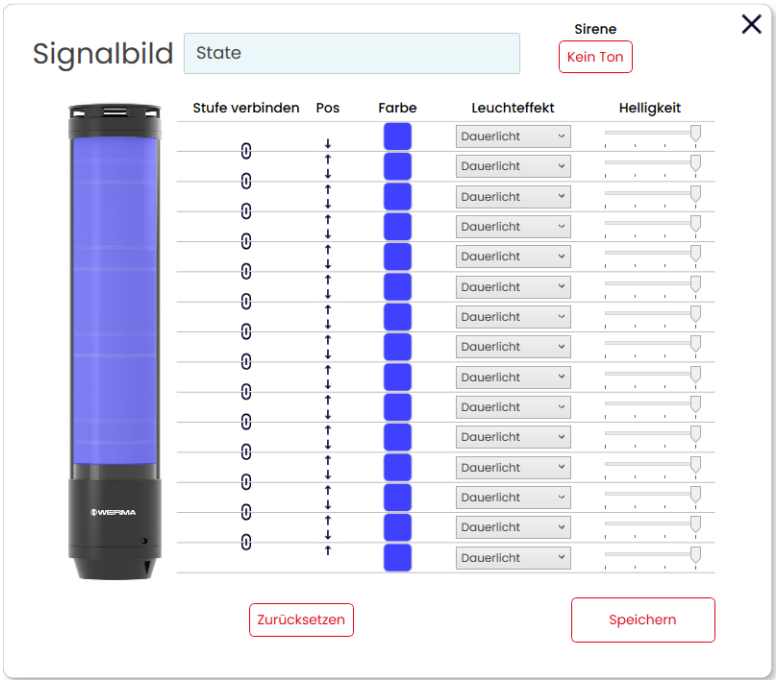
Es können bis zu 64 Signalbilder konfiguriert und auf eine e*SIGN* übertragen werden.

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

1. Auf **State** klicken.




→ Das Fenster **Signalbild** erscheint.




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

## Signalbild benennen

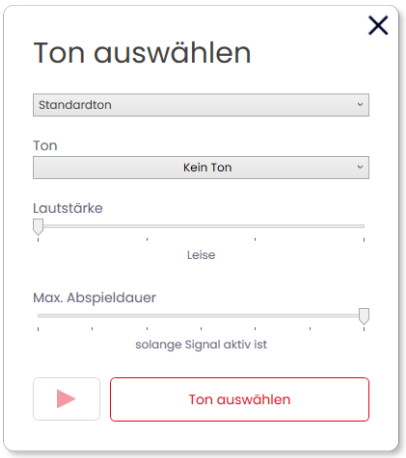
1. Im Feld **Signalbild** eine Bezeichnung für das aktuelle Signalbild eingeben.

### Sirene wählen

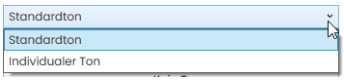
Falls die angeschlossene oder gewählte e*SIGN* eine Sirene hat, kann ein Signalton gewählt werden, der bei Aktivierung des Signalbilds ertönt.

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.



DE

**Standardton**

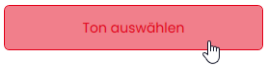
**3.** Den gewünschten **Ton**, die gewünschte **Lautstärke** und **Max. Abspieldauer** wählen.

Folgende 10 Tonarten stehen zur Verfügung:

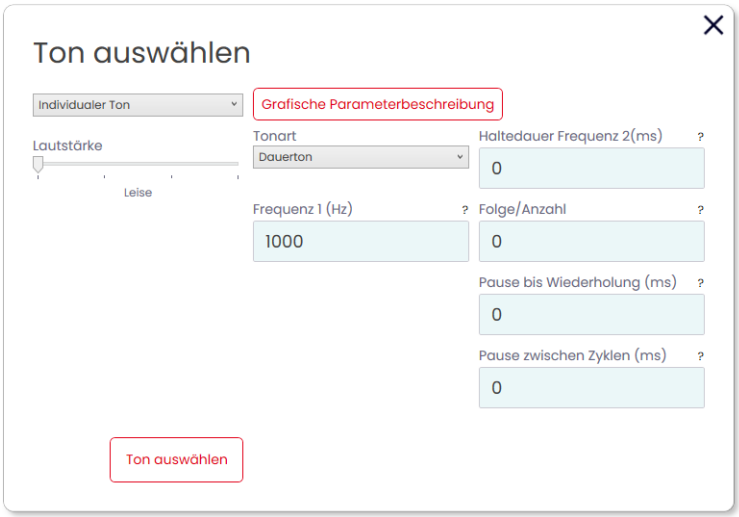
| Ton | Frequenz | Beschreibung | Max. dB (A) |
|---|---|---|---|
| 1 | 2.7 kHz | Dauerton | 104 |
| 2 | 0.9 kHz | Dauerton | 96 |
| 3 | 420Hz 2.8 kHz | Pulston | 97 |
| 4 | 20Hz 0.9 kHz | Pulston | 93 |
| 5 | 20Hz 2.8 kHz | Pulston | 103 |
| 6 | 1Hz 0.9 kHz | Pulston | 96 |
| 7 | 1Hz 2.8 kHz | Pulston | 104 |
| 8 | 0.5 Hz 2.3 kHz- 3.6 kHz | Wobbelton | 104 |
| 9 | 2.6 kHz | Dauerton | 105 |
| 10 | 1Hz 1200 Hz 800 Hz | Wechselton | 92 |

ⓘ 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.



### Individualer Ton



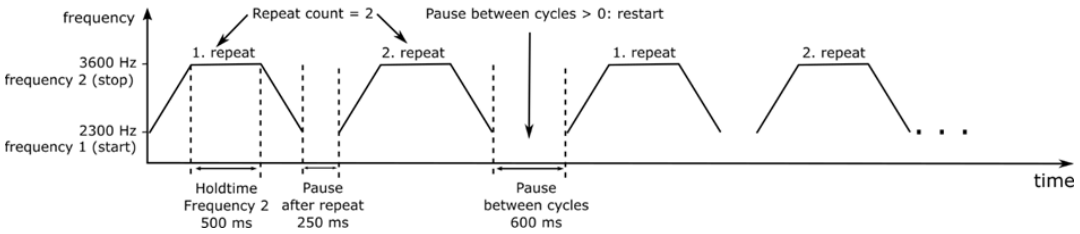

**1.** Einstellungen wie gewünscht vornehmen.

---

ⓘ Die Option **Individualer 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:

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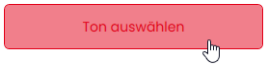
**2.** Auf **Ton auswählen** klicken.



DE

## 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.

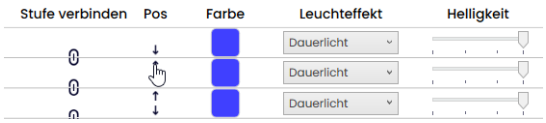

### Segmente trennen

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.



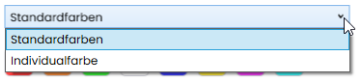

## Farbe wählen

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.


→ Das Fenster **Farbe auswählen** erscheint.

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




**Standardfarbe**

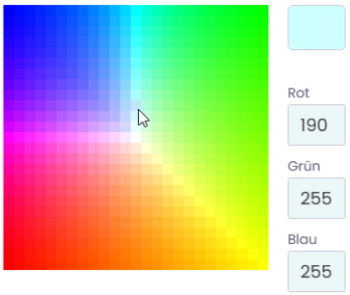
**1.** Auf das gewünschte Farbfeld klicken.

Folgende 8 Standardfarben stehen zur Verfügung:

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

**Individualfarbe**

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

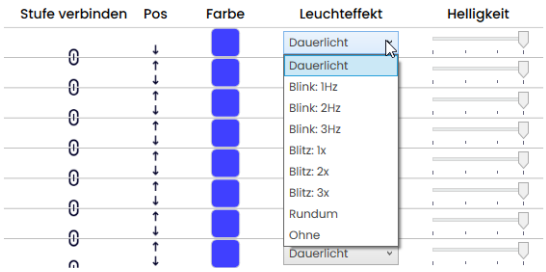



**2.** Auf **Farbe auswählen** klicken.

DE

## Leuchteffekt wählen

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

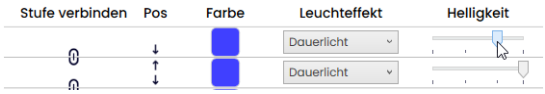



Folgende 8 Leuchteffekte stehen zur Verfügung:

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

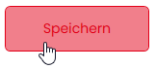
## Helligkeit einstellen

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




Sobald alle Einstellungen vorgenommen wurden:

2. Auf **Speichern** klicken.



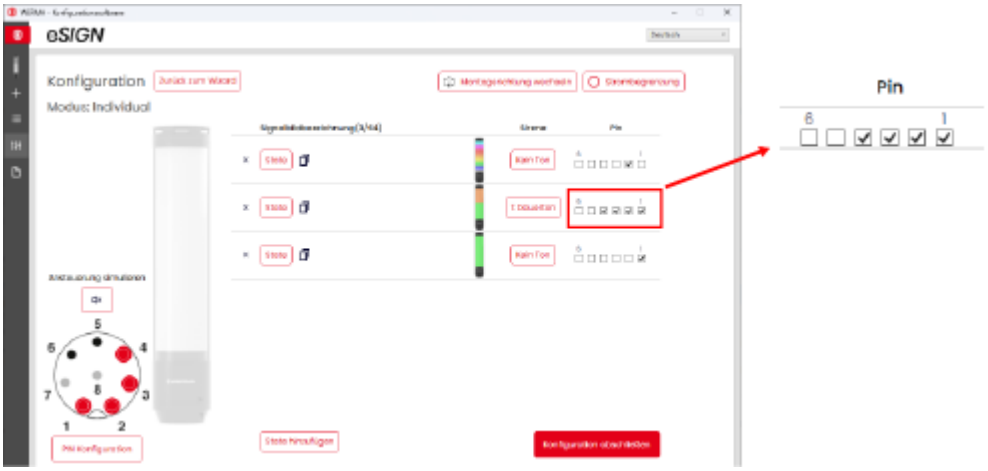
## 4.5.4.3 Pin wählen

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

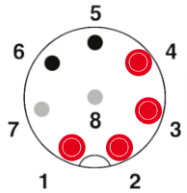
Die Ansteuerung der einzelnen Signalbilder erfolgt über eine Bit-Codierung. Die Kontrollkästchen in der Spalte **Pin** entsprechen den 6 Pins bzw. Signalleitungen. Das Setzen eines Hakens in einem oder mehreren Kontrollkästchen zeigt an, dass diese Pins bzw. Signalleitungen angesteuert werden müssen,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

**Beispiel:**

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




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

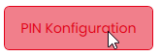



DE

### 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 **PIN Konfiguration** klicken.




→ Das Fenster **PIN Konfiguration** erscheint.


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 e*SIGN* 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 e*SIGN* übertragen werden.

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

1. Auf **State hinzufügen** klicken.


2. Signalbild wie beschrieben konfigurieren.

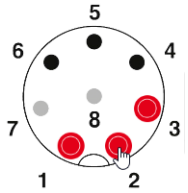
### 4.5.4.6 Signalbild löschen

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.

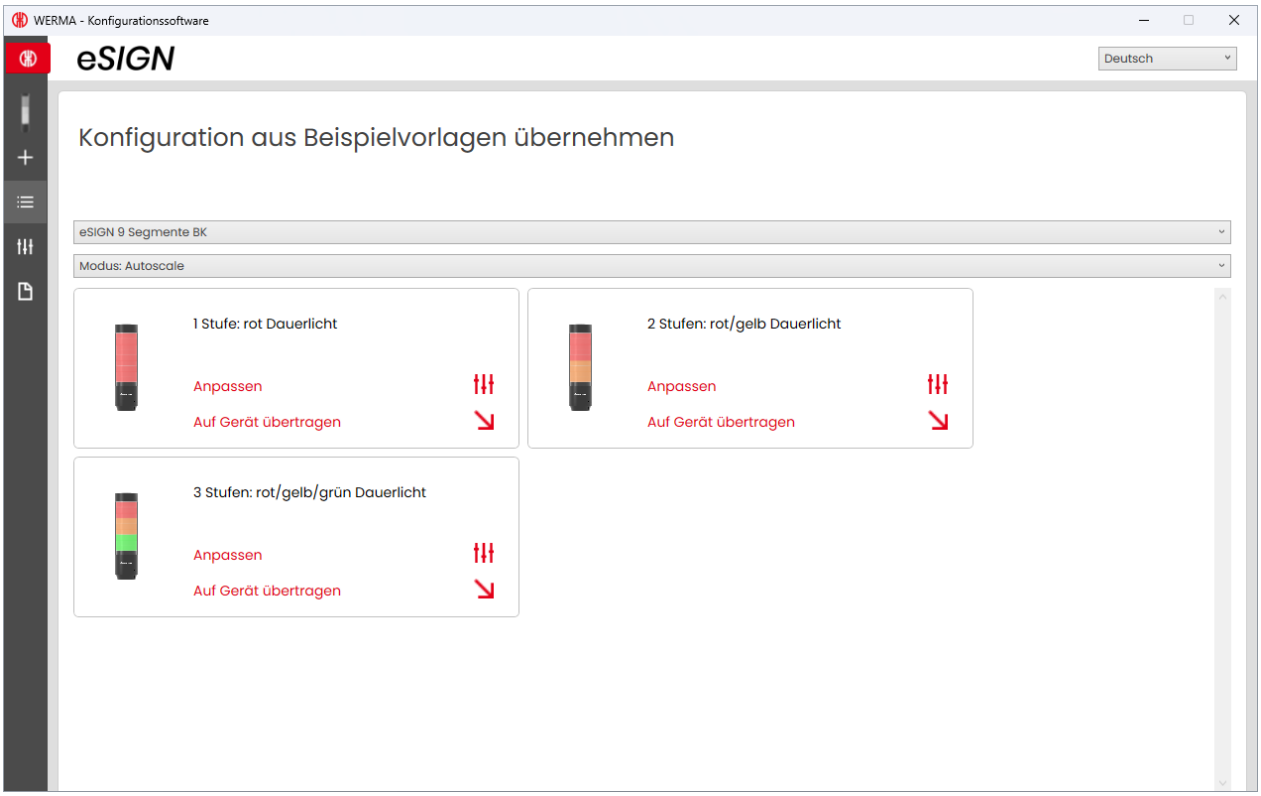

3. Auf **Speichern** klicken, um die Konfiguration in einer Konfigurationsdatei zu speichern.
4. Auf **Auf Gerät übertragen** klicken, um die Konfiguration auf die angeschlossene e*SIGN* zu übertragen.
5. Auf **PDF-Konfigurationsblatt anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration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



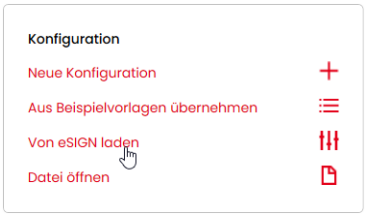

2. Variante der e*SIGN* wählen.
3. Modus wählen.
   → Die verfügbaren Vorlagen werden angezeigt.
4. In der gewünschten Vorlage auf **Anpassen** klicken, um die Vorlage zu laden und weiter zu bearbeiten.
5. Auf **Auf Gerät übertragen** klicken, um die Vorlage zu laden und direkt auf die angeschlossene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

ⓘ Für weitere Informationen zur Konfiguration, siehe "*Neue Konfiguration erstellen*", S. 16.

# 4.7 Konfiguration von der angeschlossenen e*SIGN* laden

Falls eine e*SIGN* am Computer angeschlossen ist, bietet die WERMA - Konfigurationssoftware die Möglichkeit, die aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung zu öffnen. Falls keine e*SIGN* 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. 16.

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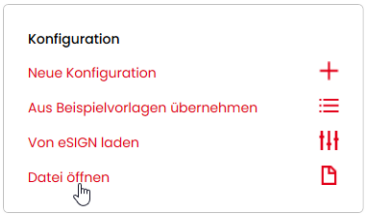
## 4.8 Bestehende Konfiguration öffnen

**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. 14).

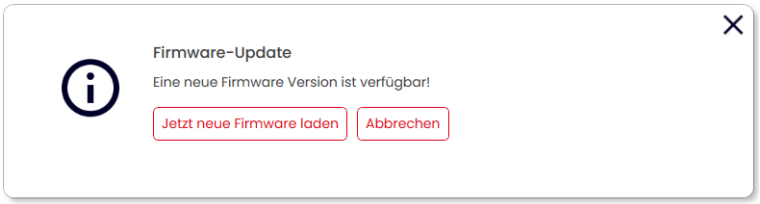
---

# 4.9 Firmware aktualisieren

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

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


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




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

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# 5 MC55 Touch S konfigurieren

## 5.1 Funktion

Mit dem neuen MC55 Touch S 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.

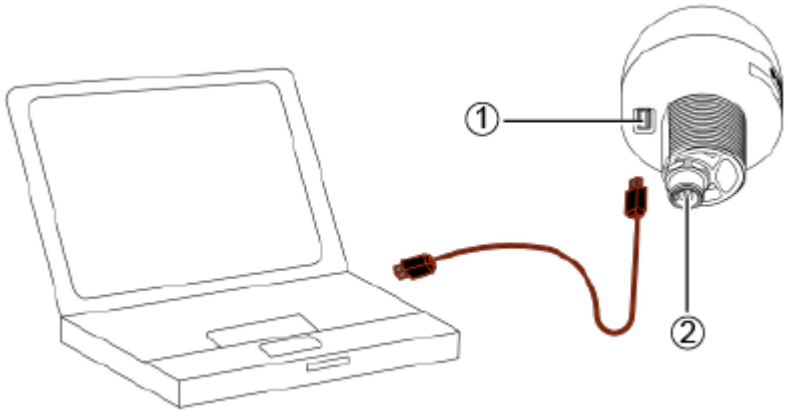
Von einer einfachen Quittierung eines akustischen Alarms, über das Durchschalten eines 24-V-Signals, bis zur Abbildung von Prozessabläufen mithilfe zeitgesteuerter Eskalationen bietet der MC55 Touch S unterschiedlichste Einsatzmöglichkeiten.

## 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
- 240.260.55 MC55 Touch 24VDC NPN
- 240.270.55 MC55 Touch 24VDC NPN Akustik
- 240.280.55 MC55 Touch 24VDC PNP
- 240.290.55 MC55 Touch 24VDC PNP Akustik

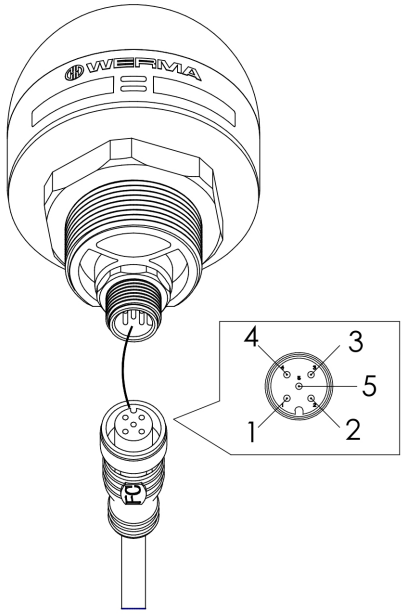
### 5.2.1 Übersicht Anschlussbereich




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

## 5.2.2 Übersicht M12-Stecker 5-polig

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

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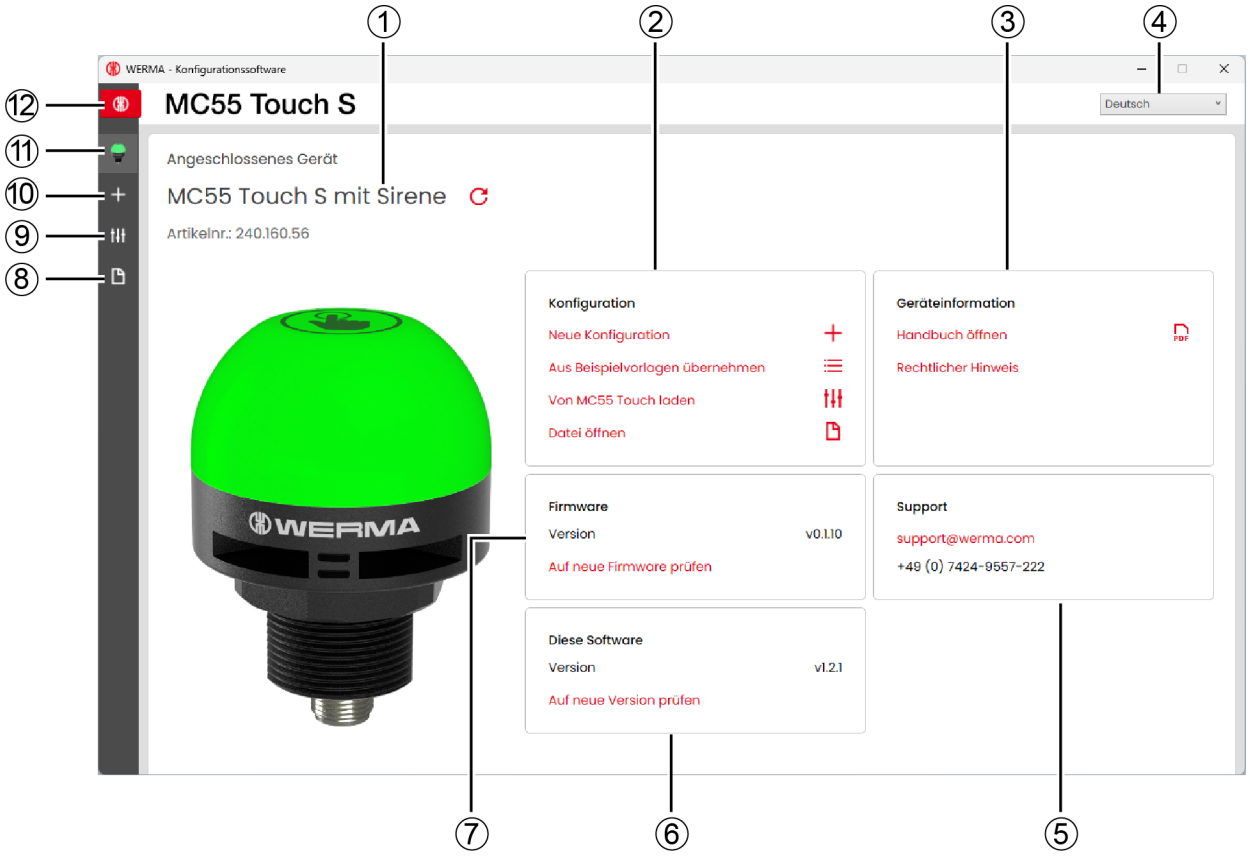
# 5.3 Überblick




| Pos. | Beschreibung |
|---|---|
| 1 | Variante des angeschlossenen MC55 Touch S |
| 2 | Bereich **Konfiguration** |
| 3 | Bereich **Geräteinformation** |
| 4 | Sprache einstellen |
| 5 | Bereich **Support** |
| 6 | Bereich **Diese Software** |
| 7 | Bereich **Firmware** |
| 8 | Bestehende Konfiguration öffnen |
| 9 | Konfiguration vom MC55 Touch S laden |
| 10 | Konfiguration aus Beispielvorlagen übernehmen |
| 11 | Startbildschirm aufrufen |
| 12 | Geräteauswahl |

### 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. 74).
- **Aus Beispielvorlagen übernehmen**: Standard-Vorlagen öffnen, die sofort auf das Gerät überspielt werden können (siehe "*Konfiguration aus Beispielvorlagen übernehmen*", S. 87).
- **Von MC55 Touch laden**: Aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung öffnen (siehe "*Konfiguration vom angeschlossenen MC55 Touch S laden*", S. 89).
- **Datei öffnen**: Eine bestehende Konfiguration öffnen und wiederverwenden (siehe "*Bestehende Konfiguration öffnen*", S. 90).

### 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

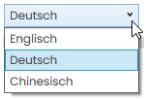
Im Bereich **Diese Software** wird der Versionsstand der WERMA - Konfigurationssoftware angezeigt und eine Möglichkeit zur Aktualisierung der Konfigurationssoftware angeboten.

### 5.3.5 Bereich Firmware

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

## 5.4 Sprache einstellen

1. Im Auswahlmenü die gewünschte Sprache wählen.



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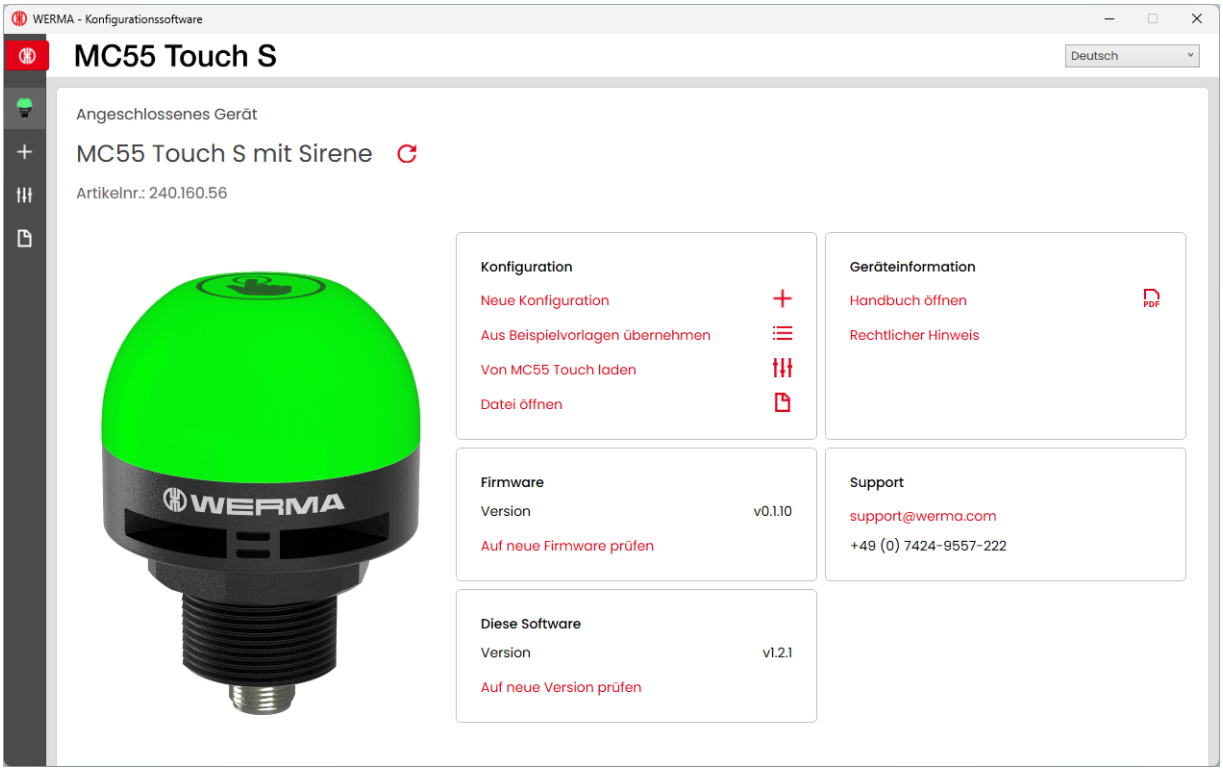
## 5.5 Neue Konfiguration erstellen

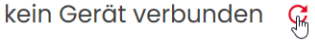
ⓘ Die Konfiguration kann mit oder ohne angeschlossenen MC55 Touch S durchgeführt werden.

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

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

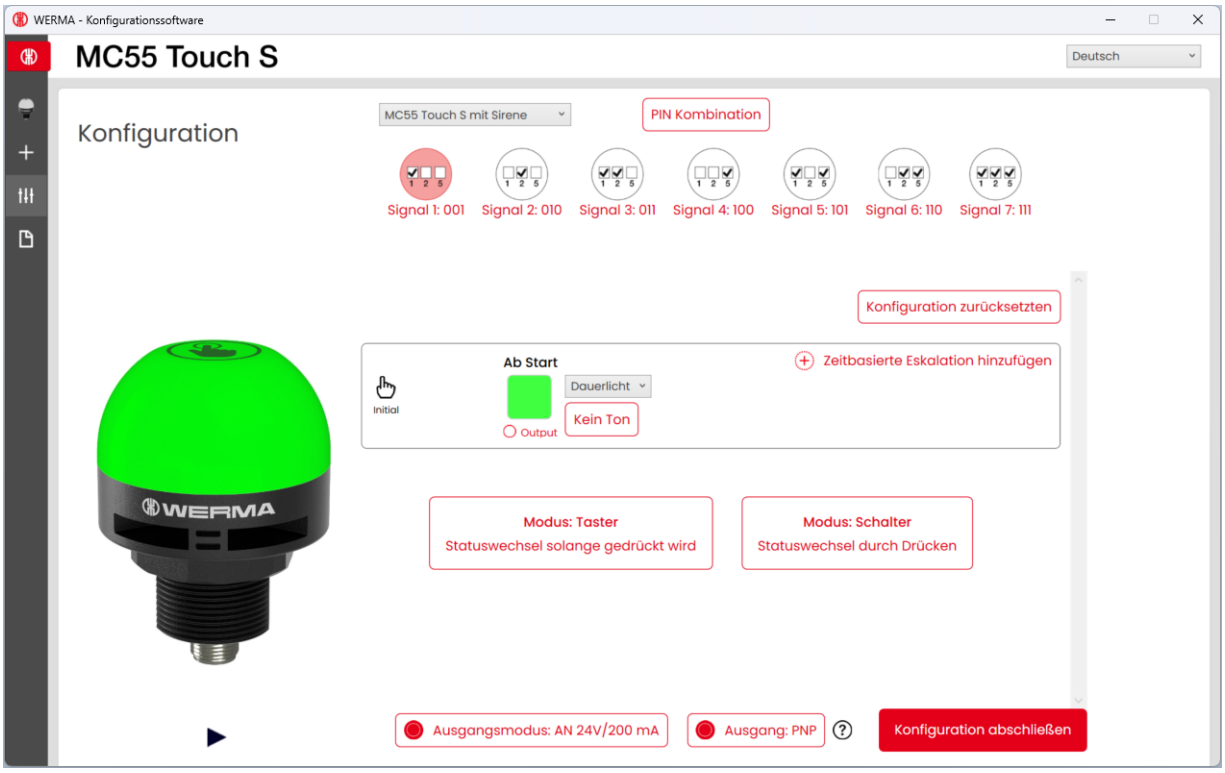



2. Falls die WERMA - Konfigurationssoftware den angeschlossenen MC55 Touch S nicht erkennt: Auf **Angeschlossenes Gerät aktualisieren** klicken.

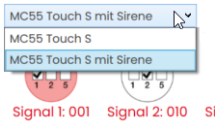


**3.** Im Bereich **Konfiguration** auf **Neue Konfiguration** klicken.


→ Der Bildschirm **Konfiguration** erscheint.




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




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

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## 5.5.1 Signaleingang wählen

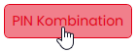
Jeder Signaleingang kann separat konfiguriert werden. Die Icons zeigen die entsprechende PIN-Belegung.

1. Auf gewünschten Signaleingang klicken.

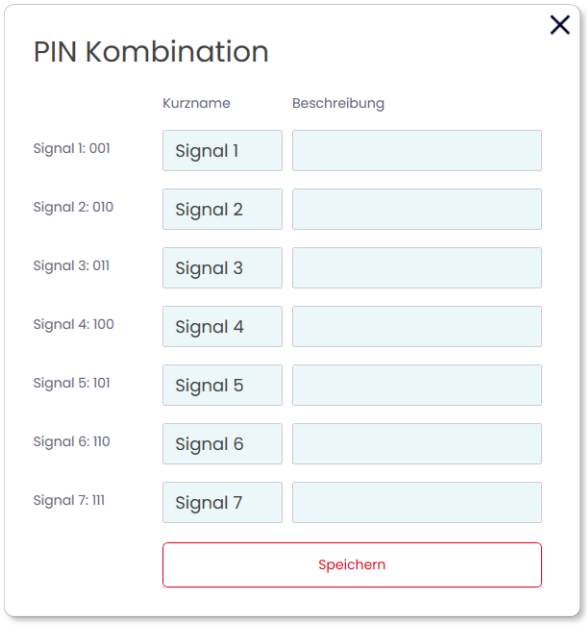

### 5.5.1.1 Signaleingang umbenennen

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

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




→ Das Fenster **PIN Kombination** erscheint.

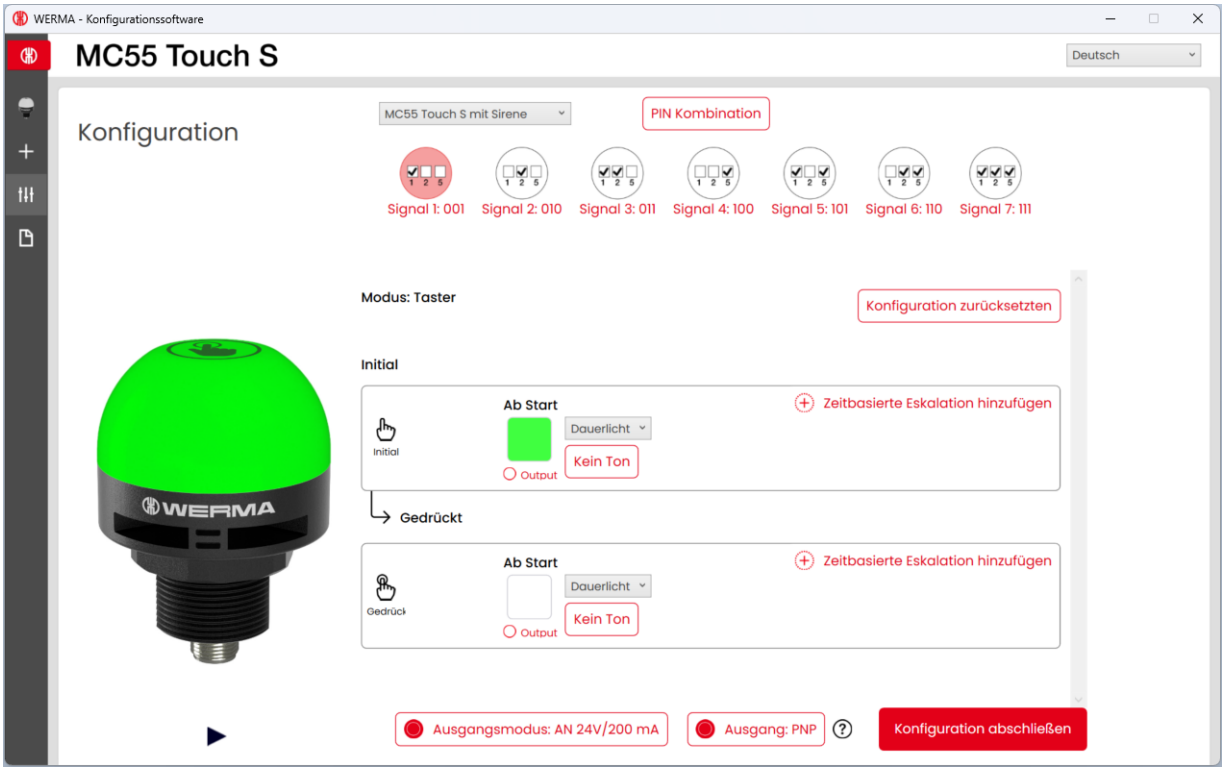



2. In der Spalte **Kurzname** die gewünschte Bezeichnung eingeben.
3. In der Spalte **Beschreibung** die Beschreibung des Signals eingeben.
4. Auf **Speichern** klicken.

## 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 S nicht gedrückt wird.
- Gedrückt: Ist aktiv, wenn MC55 Touch S gedrückt und gedrückt gehalten wird.
- Sobald der MC55 Touch S 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.

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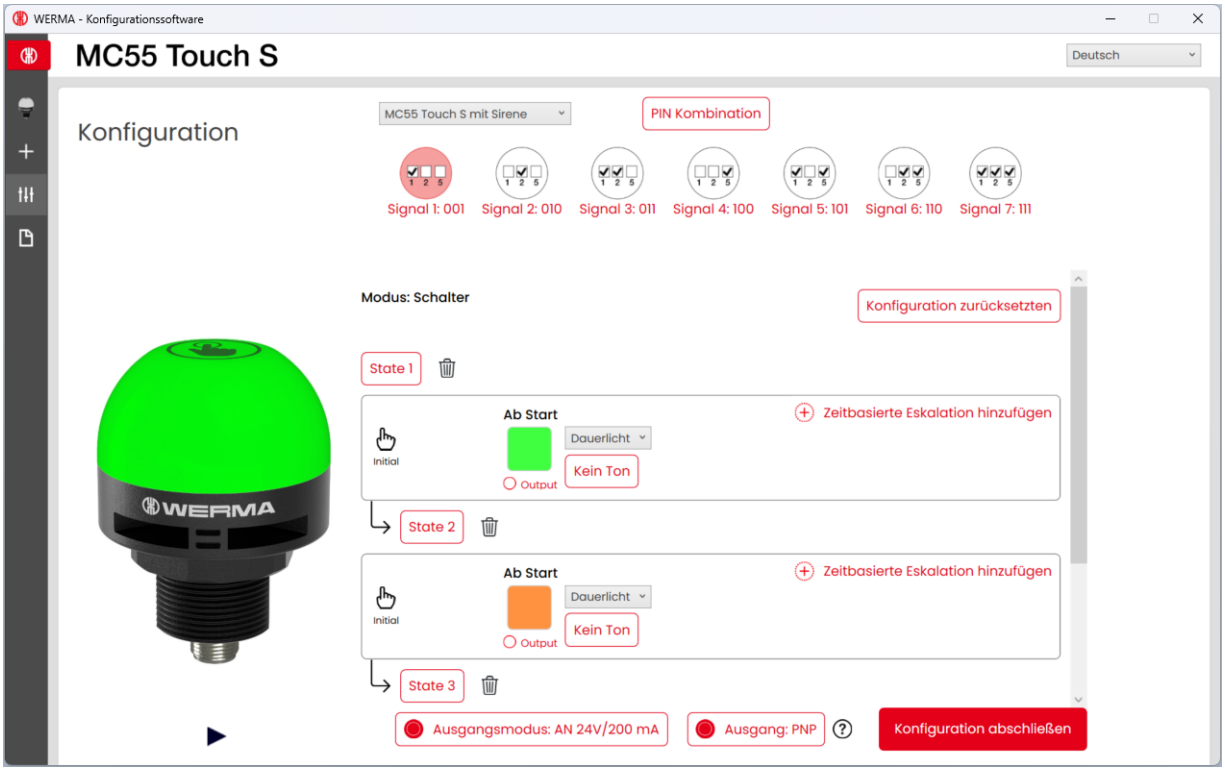
## 5.5.2.2 Modus Schalter




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

Im Modus **Schalter** leuchtet der MC55 Touch S 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 S wird standardmäßig im Schaltermodus ausgeliefert. Bei Aktivierung des Touch-Inputs werden am Ausgang 24 V geschaltet.

---

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

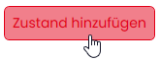

2. **Modus: Taster** oder **Modus: Schalter** wählen.

## 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.

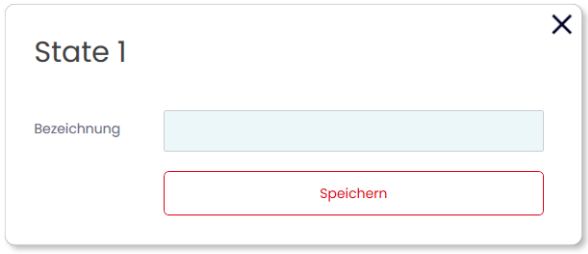



### 5.5.3.2 Zustand entfernen

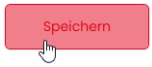
1. Neben dem zu entfernenden Zustand (z. B. **State 3**) auf 🗑 klicken.


### 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.



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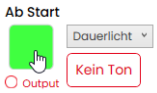
## 5.5.4 Farbe wählen

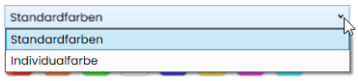
Jeder Stufe kann eine vorgegebene Standardfarbe oder eine individuelle Farbe zugewiesen werden.

**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

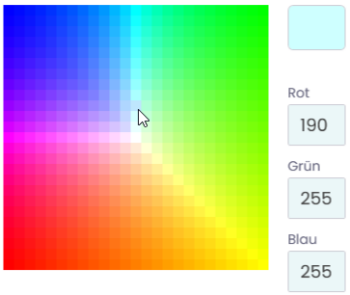
**3.** Auf das gewünschte Farbfeld klicken.

Folgende 8 Standardfarben stehen zur Verfügung:

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

### 5.5.4.2 Individualfarbe

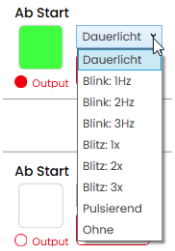
**4.** Gewünschte Farbe im Farbfeld auswählen oder den entsprechenden RGB-Wert in den Feldern **Rot**, **Grün** und **Blau** eingeben.




**5.** Auf **Farbe auswählen** klicken.


## 5.5.5 Leuchteffekt wählen

**1.** Neben dem Farbfeld auf das Auswahlmenü 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
- Ohne

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

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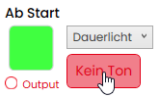
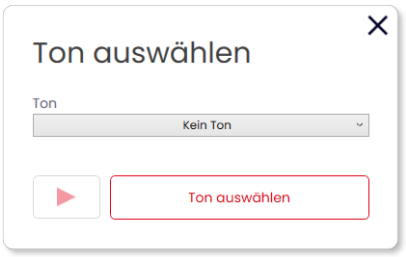
## 5.5.6 Sirene wählen

Falls der angeschlossene oder gewählte MC55 Touch S 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.



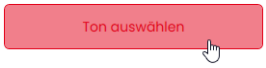

**2.** Den gewünschten **Ton** wählen.

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 | 420Hz 2.1 kHz | Pulston | 67 |
| 4 | 20Hz 0.9 kHz | Pulston | 68 |
| 5 | 20Hz 2.65 kHz | Pulston | 66 |
| 6 | 1Hz 0.9 kHz | Pulston | 70 |
| 7 | 1Hz 3.8 kHz | Pulston | 87 |
| 8 | 0.5 Hz 2.3 kHz - 3.6 kHz | Wobbelton | 89 |
| 9 | 2.65 kHz | Dauerton | 67 |
| 10 | 1Hz 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

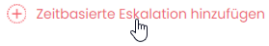
Für jeden Zustand im Modus **Schalter** oder im Modus **Taster** können maximal zwei zeitbasierte Eskalationen konfiguriert werden.

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.

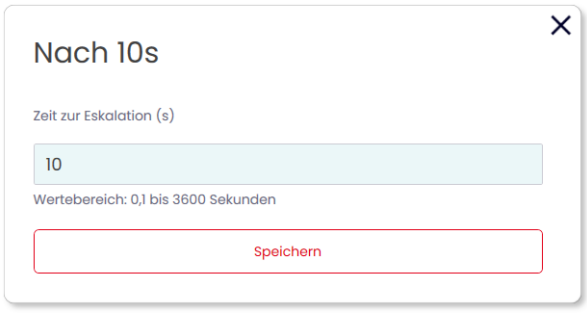
### 5.5.7.1 Zeitbasierte Eskalation hinzufügen

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



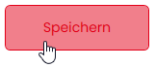

→ Eine Eskalationsstufe wurde hinzugefügt.


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.

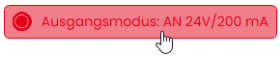
1. In der letzten Eskalationsstufe auf **Entfernen** klicken.

## 5.5.8 Ausgang aktivieren

Für jede Stufe und jede einzelne Eskalationsstufe kann der digitale 24V-Ausgang des MC55 Touch S aktiviert werden.

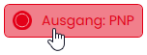
1. In der gewünschten Stufe oder Eskalationsstufe die Option **Output** aktivieren.


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

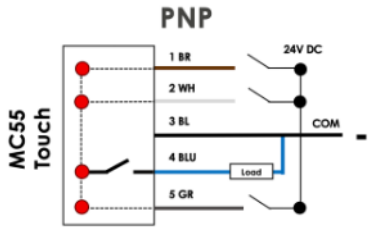
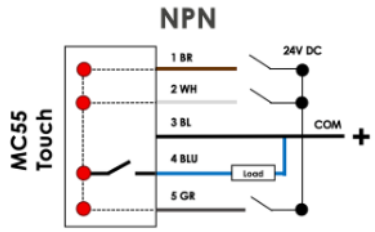



⚠ **Hinweis**

Beschädigung des MC55 Touch S

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

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

| Schaltung | Beschreibung | |
|---|---|---|
| **PNP** |  | – Positiv schaltend<br>– Positive Last wird auf den Ausgang geschaltet. |
| **NPN** |  | – Negativ schaltend<br>– Negative Last ist mit dem Ausgang verbunden. |

## 5.5.9 Ansteuerung simulieren

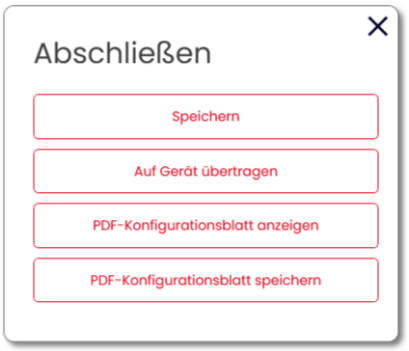
Nachdem alle Einstellungen vorgenommen wurden, kann die Ansteuerung simuliert werden.

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

1. Unter dem Bild des MC55 Touch S auf ▶ klicken.
   → Das Bild des MC55 Touch S zeigt den Initialzustand und, falls konfiguriert, nach Ablauf der entsprechenden Zeit die Eskalationsstufen.
2. Auf **Touch Button** klicken, um Drücken des MC55 Touch S zu simulieren.
3. Das Bild des MC55 Touch S zeigt das konfigurierte Verhalten.
4. Unter dem Bild des MC55 Touch S 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 S zu übertragen.
5. Auf **PDF-Konfigurationsblatt anzeigen** klicken, um eine Übersicht der aktuellen Konfiguration anzuzeigen.
6. Auf **PDF-Konfigurationsblatt 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 S übertragen oder als Grundlage für eigene Konfigurationen verwendet werden können.

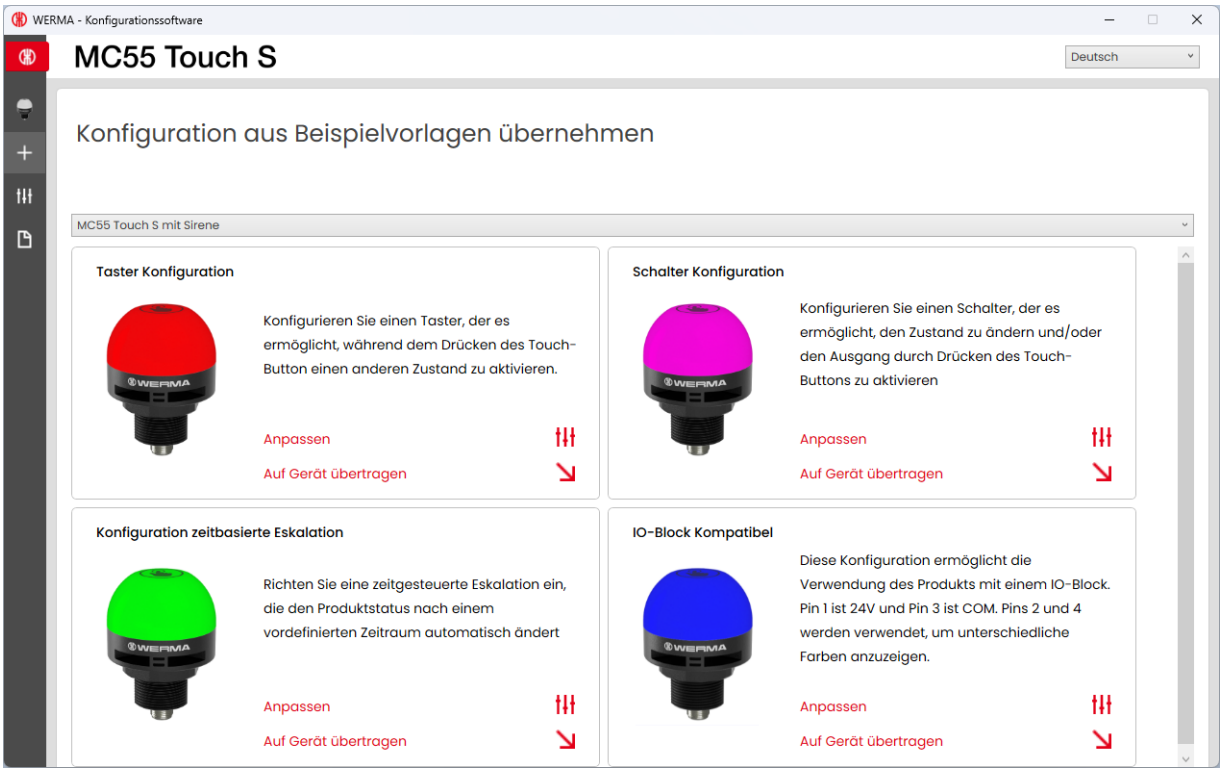
Folgende Vorlagen stehen zur Verfügung:

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

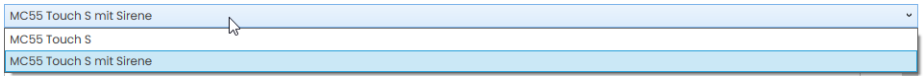
| Vorlage | Beschreibung |
|---|---|
| IO-Block Kompatibel | – MC55 Touch S wird als Schalter konfiguriert.<br><br>Mögliche Anwendung:<br><br>– IO-Block<br>– Signaleingang 1 ist 24 V.<br>– Signaleingang 3 ist COM.<br>– Signaleingänge 2 und 4 zeigen unterschiedliche Farben an. |

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


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




**2.** Variante des MC55 Touch S 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 S zu übertragen.

ⓘ Für weitere Informationen zur Konfiguration, siehe "*Neue Konfiguration erstellen*", S. 74.

## 5.7 Konfiguration vom angeschlossenen MC55 Touch S laden

Falls ein MC55 Touch S am Computer angeschlossen ist, bietet die WERMA - Konfigurationssoftware die Möglichkeit, die aktuelle Konfiguration (ggf. Auslieferungszustand) zur Bearbeitung zu öffnen. Falls kein MC55 Touch S 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. 74.

## 5.8 Bestehende Konfiguration 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. 72).

---

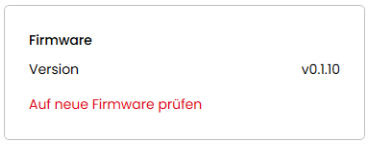
## 5.9 Firmware aktualisieren

---

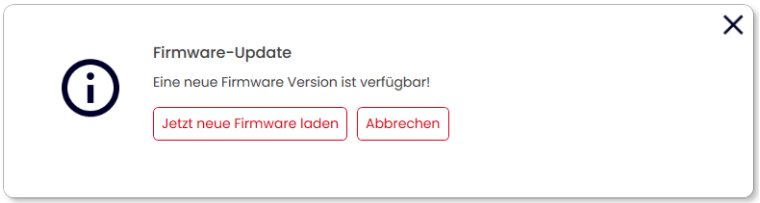
ⓘ Um eine Firmware-Aktualisierung durchführen zu können, muss der Computer mit dem Internet verbunden und ein MC55 Touch S angeschlossen sein.

---

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




→ Die WERMA - Konfigurationssoftware sucht nach Firmware-Aktualisierungen für den angeschlossenen MC55 Touch S.
→ 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 S übertragen.

# 6 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.

DE

# 7 Support

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Manual

# WERMA - Configuration Software

Version: 3.0 - 10/2024

310.657.006

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# Table of Contents

EN


**1 Overview ..... 97**

1.1 Function ..... 97
1.2 System requirements ..... 97

**2 Installing the WERMA - Configuration Software ..... 98**

**3 Starting the WERMA - Configuration Software ..... 98**

**4 Configuring the eSIGN ..... 99**

4.1 Function ..... 99
4.2 Hardware description ..... 99
4.2.1 Overview of the connection area ..... 100
4.2.2 Overview of the 8-pin M12 connector ..... 101
4.3 Overview ..... 102
4.3.1 Configuration area ..... 103
4.3.2 Device Information area ..... 103
4.3.3 Support area ..... 103
4.3.4 This software area ..... 103
4.3.5 Firmware area ..... 103
4.4 Setting the language ..... 103
4.5 Creating a new configuration ..... 104
4.5.1 Autoscale mode ..... 106
4.5.2 Signal tower mode ..... 116
4.5.3 Filling level mode ..... 126
4.5.4 Individual mode ..... 140
4.6 Creating a configuration from sample templates ..... 153
4.7 Loading the configuration of the connected eSIGN ..... 154
4.8 Opening an existing configuration ..... 155
4.9 Updating the firmware ..... 156

**5 Configuring the MC55 Touch S ..... 157**

5.1 Function ..... 157
5.2 Hardware description ..... 157
5.2.1 Overview of the connection area ..... 157
5.2.2 Overview of the 5-pin M12 connector ..... 158
5.2.3 Default setting ..... 158
5.3 Overview ..... 159
5.3.1 Configuration area ..... 160
5.3.2 Device Information area ..... 160
5.3.3 Support area ..... 160
5.3.4 This software area ..... 160
5.3.5 Firmware area ..... 160

EN

5.4 Setting the language ..... 160
5.5 Creating a new configuration ..... 161
5.5.1 Selecting a signal input ..... 163
5.5.2 Changing the mode ..... 164
5.5.3 Modifying states ..... 166
5.5.4 Selecting a colour ..... 167
5.5.5 Selecting a light pattern ..... 168
5.5.6 Selecting a siren ..... 169
5.5.7 Modifying a time-based escalation ..... 170
5.5.8 Enabling the output ..... 173
5.5.9 Simulating signal inputs ..... 174
5.5.10 Finalising a configuration ..... 174
5.6 Creating a configuration from sample templates ..... 175
5.7 Loading the configuration of the connected MC55 Touch S ..... 177
5.8 Opening an existing configuration ..... 178
5.9 Updating the firmware ..... 178

**6 Updating the WERMA - Configuration Software ..... 179**

**7 Support ..... 180**

# 1 Overview

## 1.1 Function

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

– e*SIGN* signal tower

– MC55 Touch S

ⓘ The devices available are market-dependent.

## 1.2 System requirements

| | |
|---|---|
| Operating system | Windows 10 x86/x64<br>Windows 11<br>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.

EN

# 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 e*SIGN*

## 4.1 Function

The new e*SIGN* 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 e*SIGN* 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 e*SIGN* and to transfer the configuration to the e*SIGN*.

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

## 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

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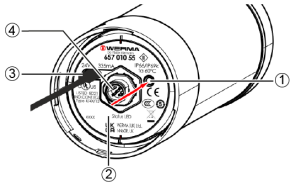
## 4.2.1 Overview of the connection area



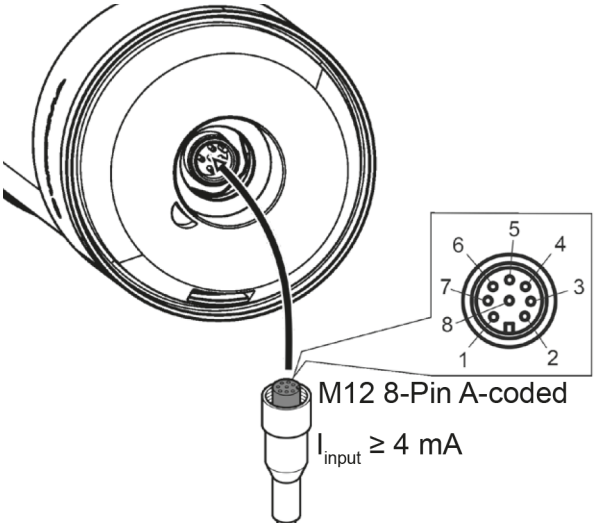

| Item | Description |
|---|---|
| 1 | User button |
| 2 | Status LED |
| 3 | USB-C connection |
| 4 | 8-pin M12 connector |

| 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 e*SIGN* version and is kept available for future functional enhancements.

## 4.2.2 Overview of the 8-pin M12 connector

The e*SIGN* 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 | +24 V |

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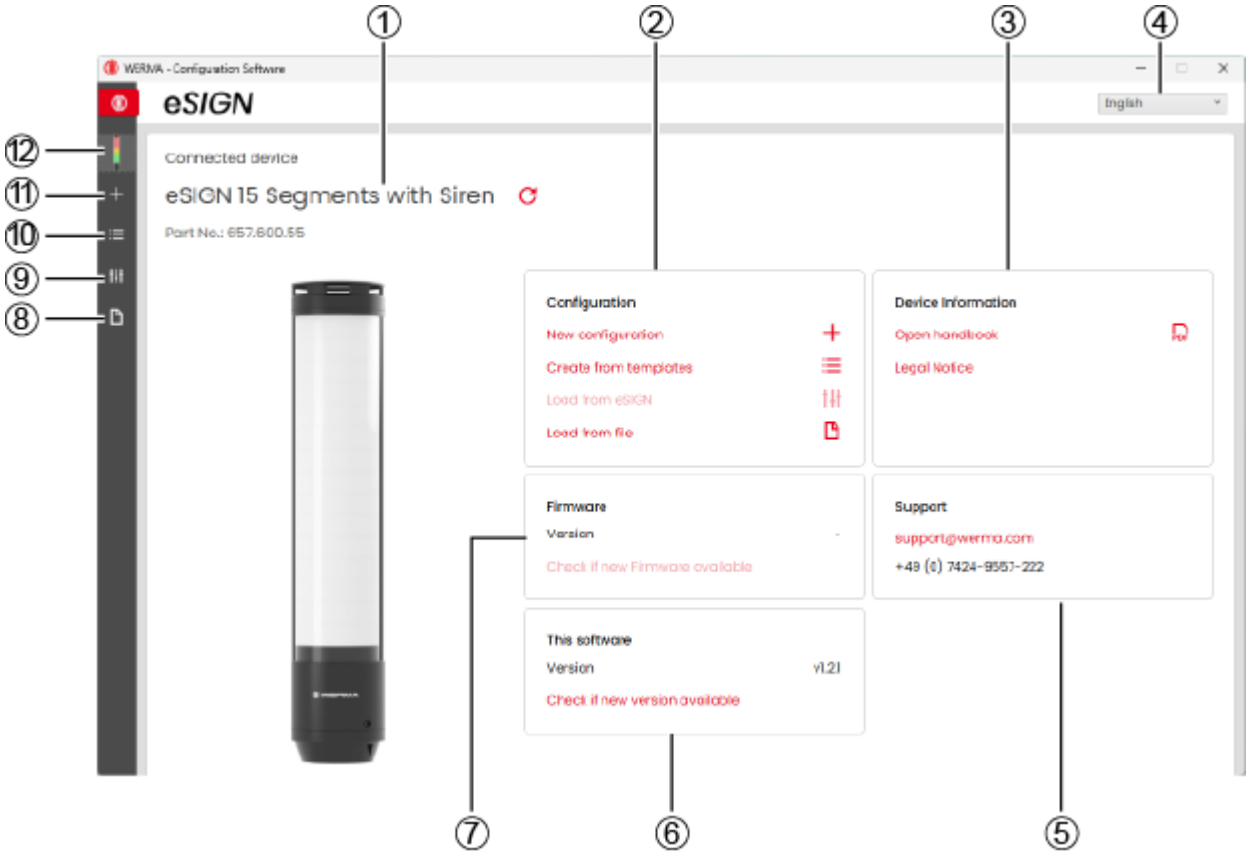
# 4.3 Overview




| Item | Description |
|---|---|
| 1 | Variant of the connected e*SIGN* |
| 2 | **Configuration** area |
| 3 | **Device Information** area |
| 4 | Setting the language |
| 5 | **Support** area |
| 6 | **This software** area |
| 7 | **Firmware** area |
| 8 | Opening an existing configuration |
| 9 | Loading a configuration from the e*SIGN* |
| 10 | Creating a configuration from sample templates |
| 11 | Creating a new configuration |
| 12 | Opening the start screen |
| 13 | Device selection |

### 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. 104).
- **Create from templates**: Open standard templates that can be transferred to the device immediately (see "*Creating a configuration from sample templates*", S. 153).
- **Load from eSIGN**: Open the current configuration (for example the default setting) for editing (see "*Loading the configuration of the connected eSIGN*", S. 154).
- **Load from file**: Open and reuse an existing configuration (see "*Opening an existing configuration*", S. 155).

### 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

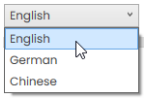
The **This software** area displays information about the version status of the WERMA - Configuration Software and offers a possibility to update the configuration software.

### 4.3.5 Firmware area

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

## 4.4 Setting the language

**1.** Select the desired language in the selection menu.



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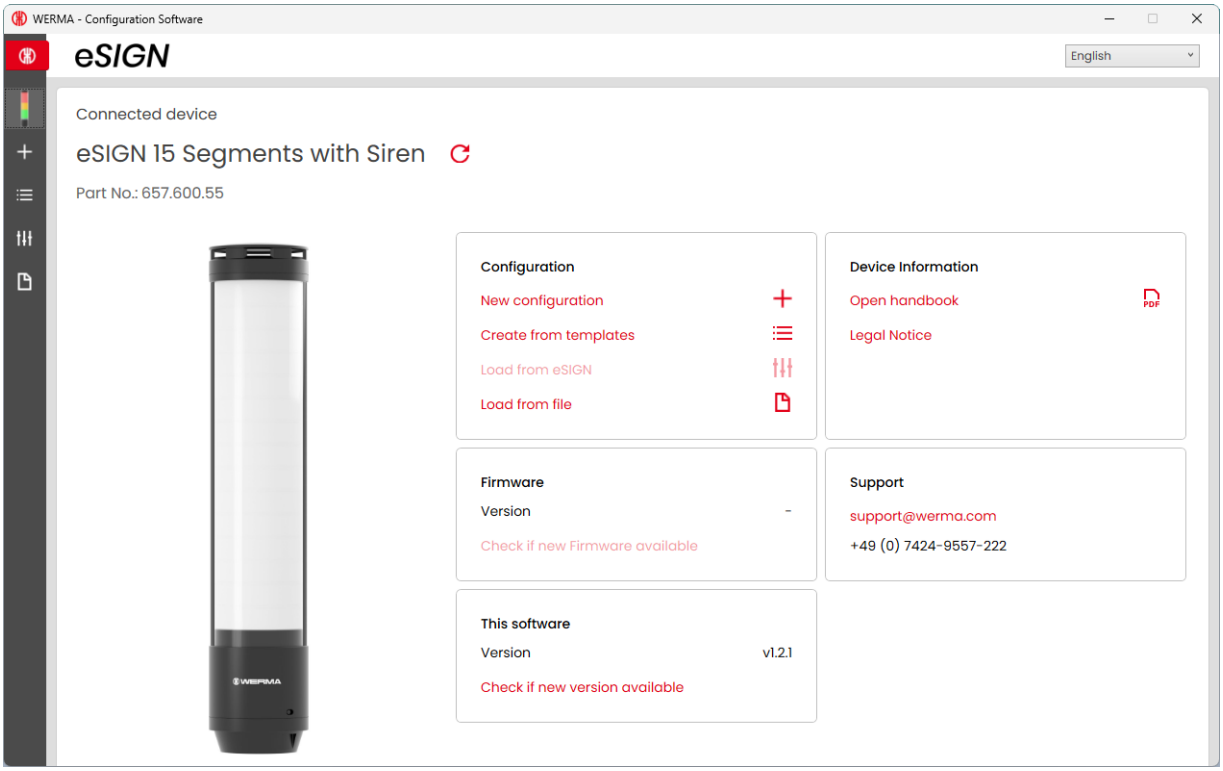
# 4.5 Creating a new configuration

ⓘ The configuration can be performed with or without connecting an e*SIGN*.

ⓘ The e*SIGN* 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 e*SIGN* to the computer.
   → The WERMA - Configuration Software detects the connected e*SIGN*.

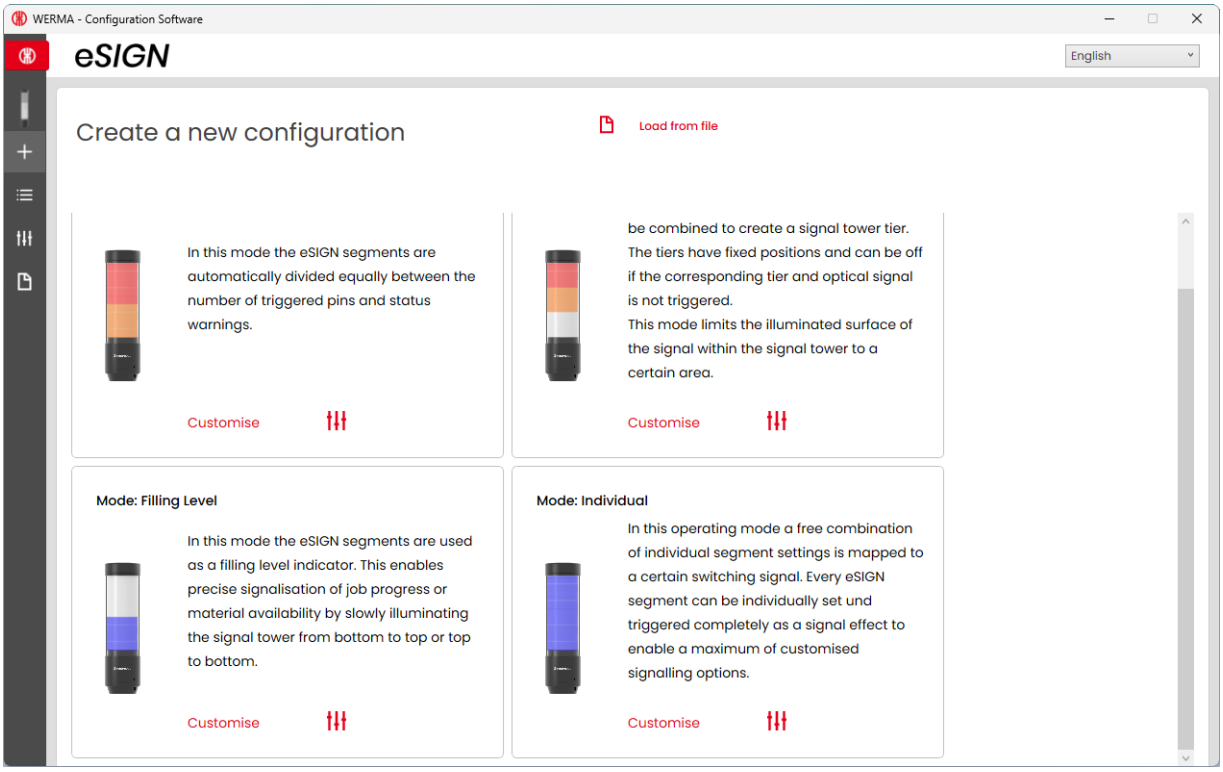



2. If the WERMA - Configuration Software does not detect the connected e*SIGN*: Click on **Refresh connected device**.

No Device connected

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


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




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

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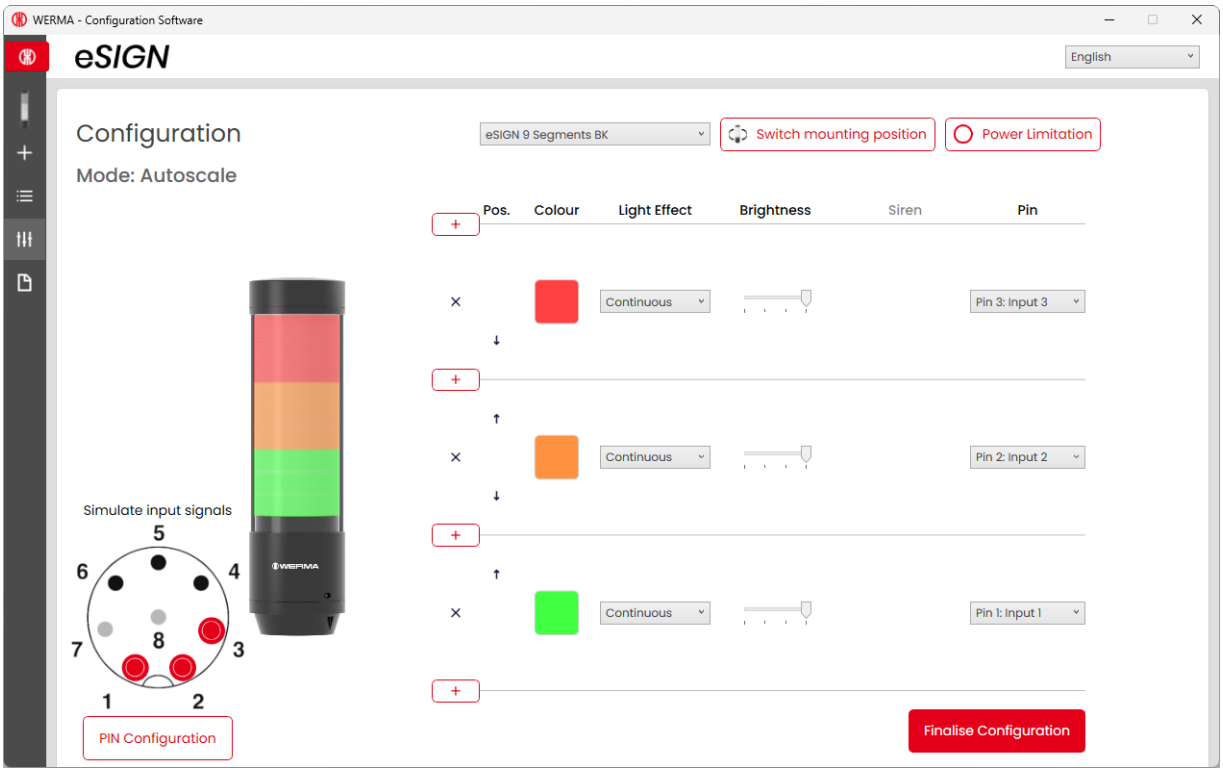
## 4.5.1 Autoscale mode

*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 e*SIGN* 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:

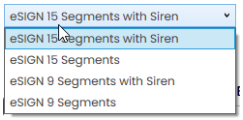
- Variants with 9 segments:
  - 3 tiers red/yellow/green
  - Continuous light
- Variants with 15 segments:
  - 5 tiers red/yellow/green/white/blue
  - Continuous light

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

### 4.5.1.1 Selecting a e*SIGN* variant

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

**1.** If necessary, select the variant of the e*SIGN* 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 e*SIGN* 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**.

→ A tier has been added.

### Removing a tier

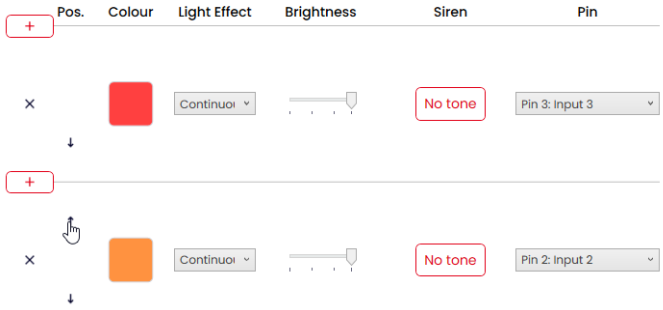
1. Click on **Delete**.

→ 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.

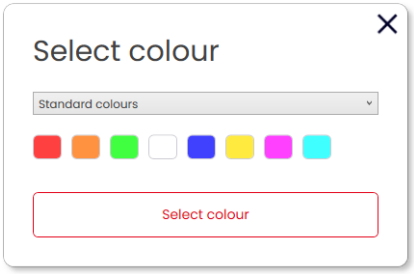


### 4.5.1.4 Selecting a colour

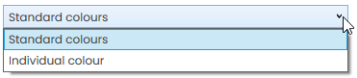
A standard colour or individual colour can be assigned to every tier.

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.

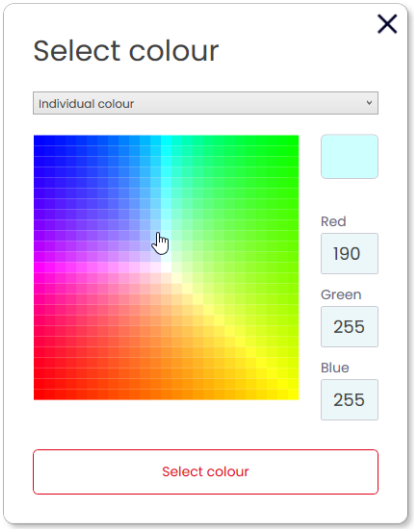
The following 8 standard colours are available:

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

EN

### Individual colour

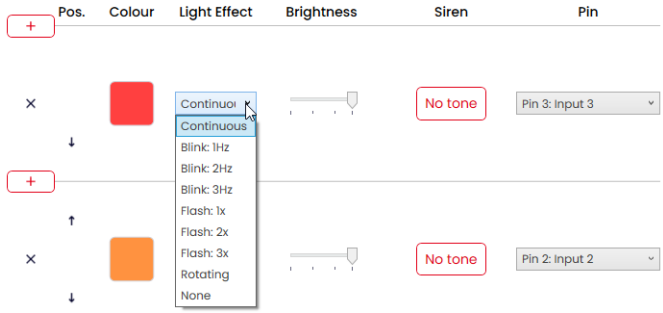
1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.




2. Click on **Select colour**.


## 4.5.1.5 Selecting a light pattern

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



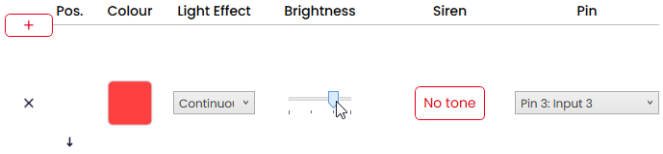

The following 8 light effects are available:

- Continuous light
- Blinking 1 Hz
- Blinking 2 Hz
- Blinking 3 Hz
- Flashing 1x
- Flashing 2x
- Flashing 3x
- Rotating
- None

ⓘ The setting **None** 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.



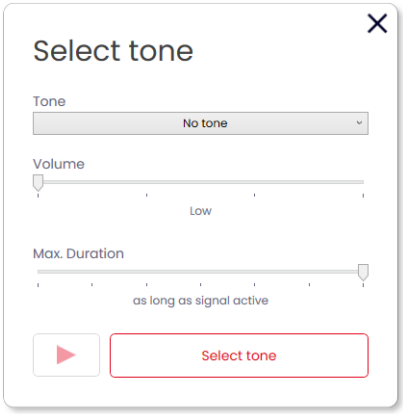

### 4.5.1.7 Selecting a siren

If the connected or selected e*SIGN* 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.



EN

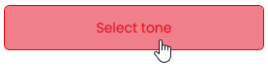
**2.** Select the desired **Tone** , the desired **Volume** and **Max. Duration**.

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 2.8 kHz | Pulse tone | 97 |
| 4 | 20Hz 0.9 kHz | Pulse tone | 93 |
| 5 | 20Hz 2.8 kHz | Pulse tone | 103 |
| 6 | 1Hz 0.9 kHz | Pulse tone | 96 |
| 7 | 1Hz 2.8 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 1200 Hz 800 Hz | Alternating tone | 92 |

ⓘ 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**.

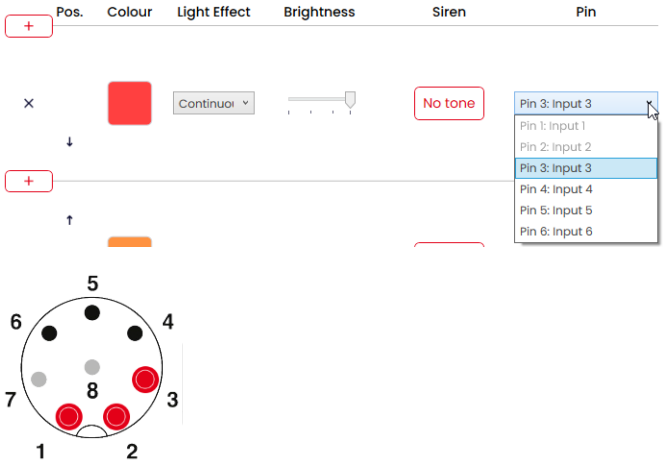


## 4.5.1.8 Selecting a pin

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 **Pin** column.





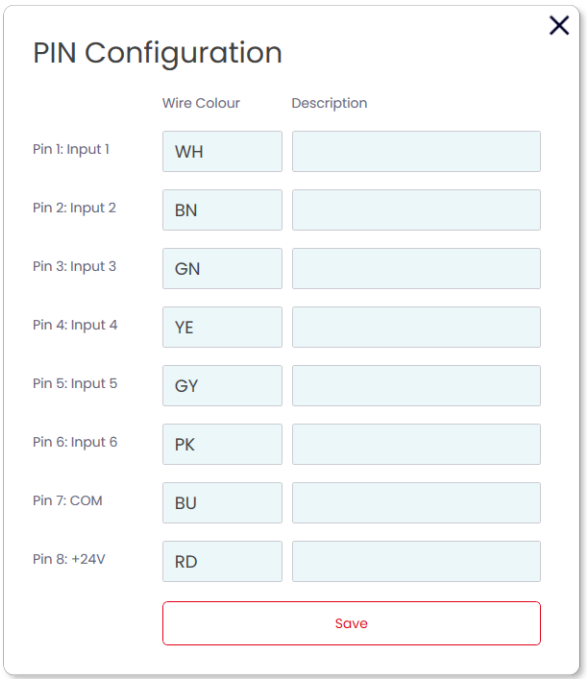


### Modifying a pin configuration

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

1. Click on **PIN Configuration** under the pin overview.


→ The **PIN Configuration** window appears.

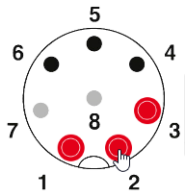



2. Enter the desired wire colour in the **Colour** column.
3. Enter the description of the signal in the **Description** column.
4. Click on **Save**.

### 4.5.1.9 Simulating signal inputs

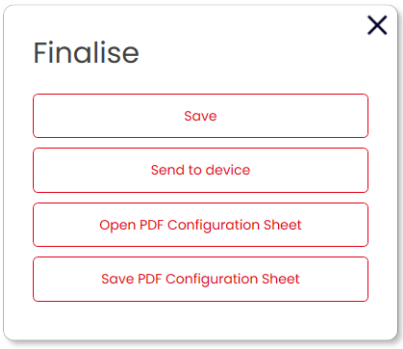
Once all settings have been made, the signal inputs can be simulated.

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.



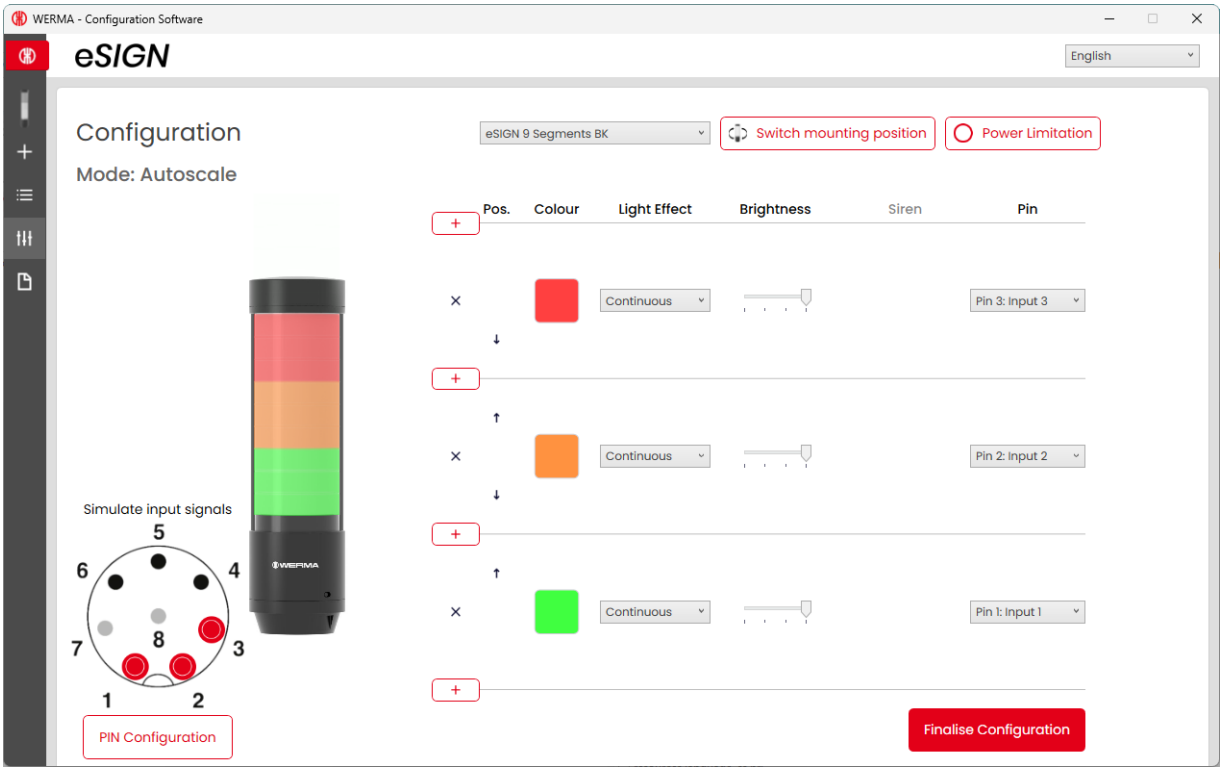

3. Click on **Save** to save the configuration in a configuration file.
4. Click on **Send to device** to transfer the configuration to the connected e*SIGN*.
5. Click on **Open PDF Configuration Sheet** to display an overview of the current configuration.
6. Click on **Save PDF Configuration Sheet**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

EN

## 4.5.2 Signal tower mode

Individual e*SIGN* 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.



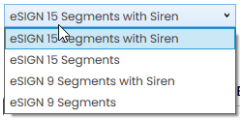

ⓘ If necessary, the orientation of the displayed signal tower can be rotated by 180° with the **Switch mounting position** button.

ⓘ If necessary (for example, to take into account the power limits of control outputs), the power consumption of the e*SIGN* 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 e*SIGN* variant

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

1. If necessary, select the variant of the e*SIGN* 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 e*SIGN* segments are automatically re-divided and evenly distributed across all tiers.

#### Adding a tier

1. Click on **Add**.

→ A tier has been added.

#### Removing a tier

1. Click on **Delete**.

→ A tier has been removed.

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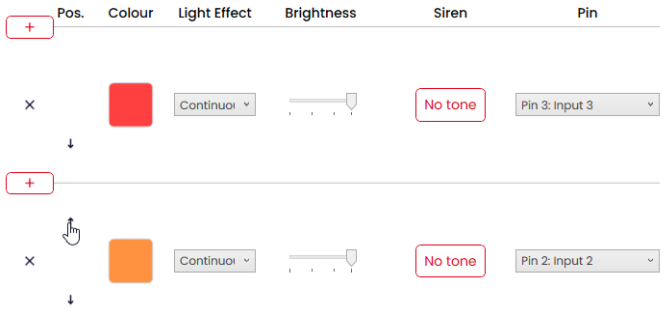
### 4.5.2.3 Moving a tier

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.

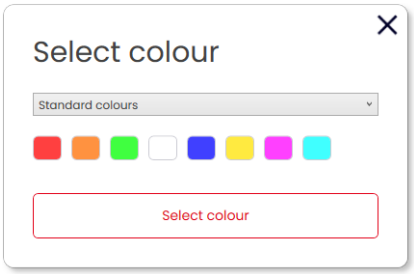



### 4.5.2.4 Selecting a colour

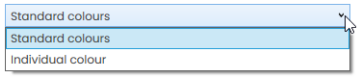
A standard colour or individual colour can be assigned to every tier.

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

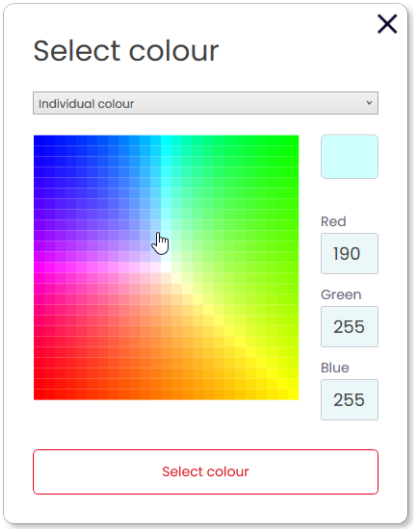
1. Click on the desired colour field.

The following 8 standard colours are available:

– red
– yellow
– green
– white
– blue
– light yellow
– violet
– turquoise

## Individual colour

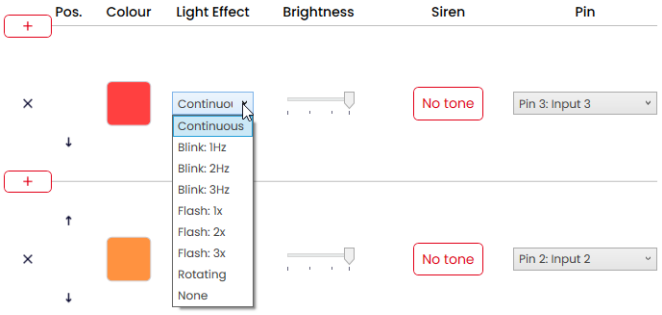
1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.




2. Click on **Select colour**.

## 4.5.2.5 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
- None

ⓘ The setting **None** 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.

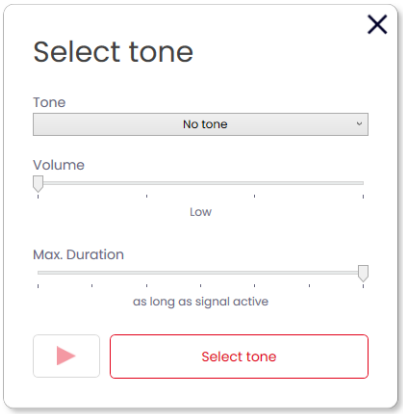
## 4.5.2.7 Selecting a siren

If the connected or selected e*SIGN* 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 2.8 kHz | Pulse tone | 97 |
| 4 | 20Hz 0.9 kHz | Pulse tone | 93 |
| 5 | 20Hz 2.8 kHz | Pulse tone | 103 |
| 6 | 1Hz 0.9 kHz | Pulse tone | 96 |
| 7 | 1Hz 2.8 kHz | Pulse tone | 104 |

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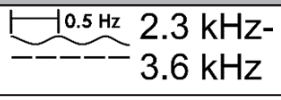
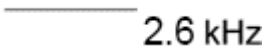
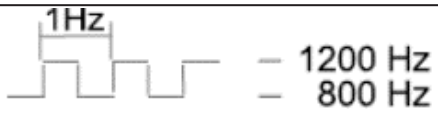
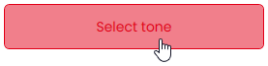
| Sound | Frequency | Description | Max. dB (A) |
|---|---|---|---|
| 8 |  | Sweep tone | 104 |
| 9 |  | Continuous tone | 105 |
| 10 |  | Alternating tone | 92 |

ⓘ 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**.

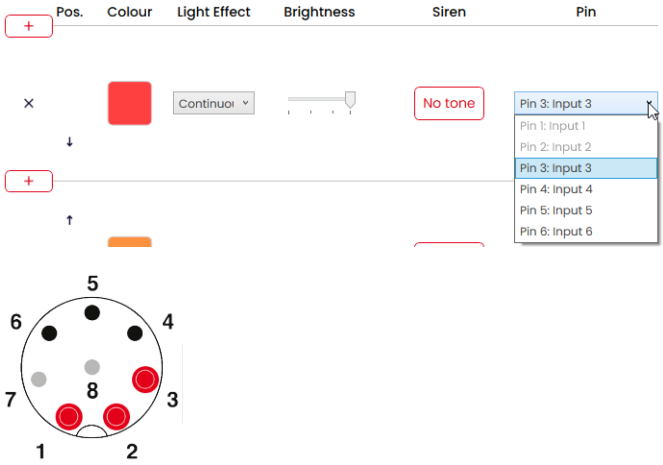


## 4.5.2.8 Selecting a pin

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 **Pin** column.





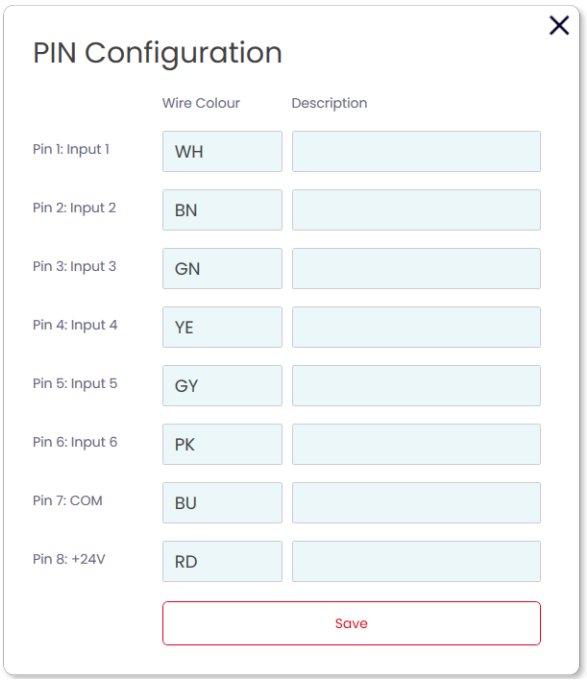


### Modifying a pin configuration

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

1. Click on **PIN Configuration** under the pin overview.


→ The **PIN Configuration** window appears.

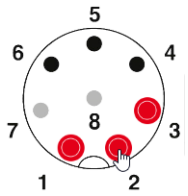



2. Enter the desired wire colour in the **Colour** column.
3. Enter the description of the signal in the **Description** column.
4. Click on **Save**.

### 4.5.2.9 Simulating signal inputs

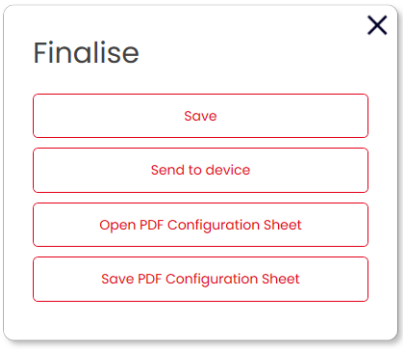
Once all settings have been made, the signal inputs can be simulated.

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.

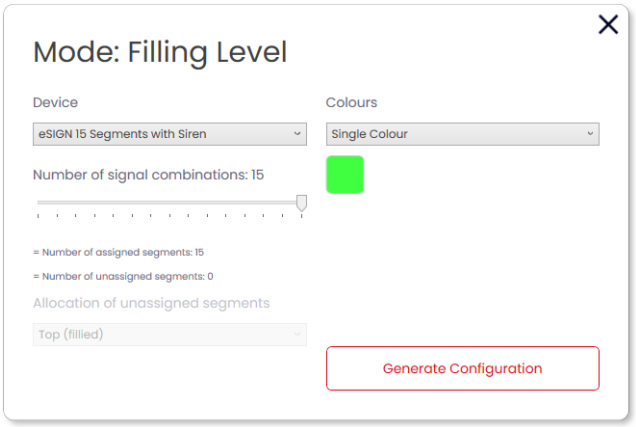



3. Click on **Save** to save the configuration in a configuration file.
4. Click on **Send to device** to transfer the configuration to the connected e*SIGN*.
5. Click on **Open PDF Configuration Sheet** to display an overview of the current configuration.
6. Click on **Save PDF Configuration Sheet**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

EN

## 4.5.3 Filling level mode

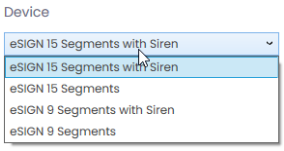
The e*SIGN* segments are used as a filling level indicator in this operating mode. This enables precise signalisation of the job progress or material availability in machine processes by slowly illuminating the signal tower from bottom to top or top to bottom.




### 4.5.3.1 Selecting a e*SIGN* variant

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

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



### 4.5.3.2 Selecting the number of signal combinations

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

If not all e*SIGN* segments are used for the filling level indicator:

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

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

EN

## 4.5.3.3 Selecting a colour

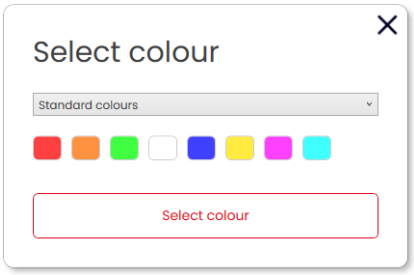
A uniform colour or colour gradient can be selected for the filling level indicator. The colour gradient option means that the gradual transformation between the two colours is automatically calculated.

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

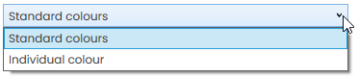
1. Select whether the filling level should be displayed in a uniform colour or as a colour gradient n the **Colours** field.

### 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

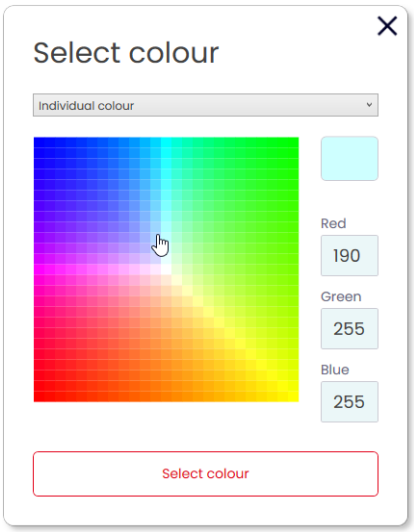
1. Click on the desired colour field.

The following 8 standard colours are available:

- red
- yellow
- green
- white
- blue
- light yellow
- violet
- 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.

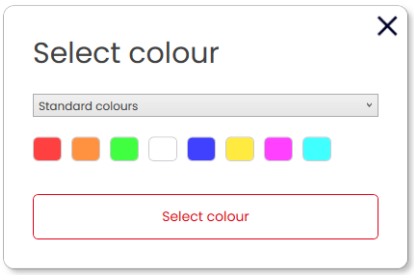



2. Click on **Select colour**.

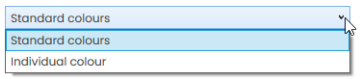

3. Click on **Generate Configuration**.
   → The **Configuration** screen appears.

## 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.



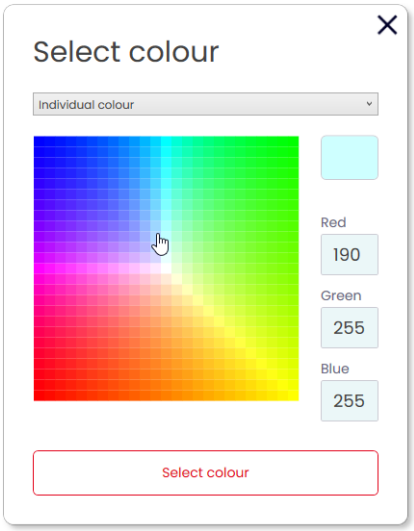

### Standard colour

1. Click on the desired colour field.

EN

### Individual colour

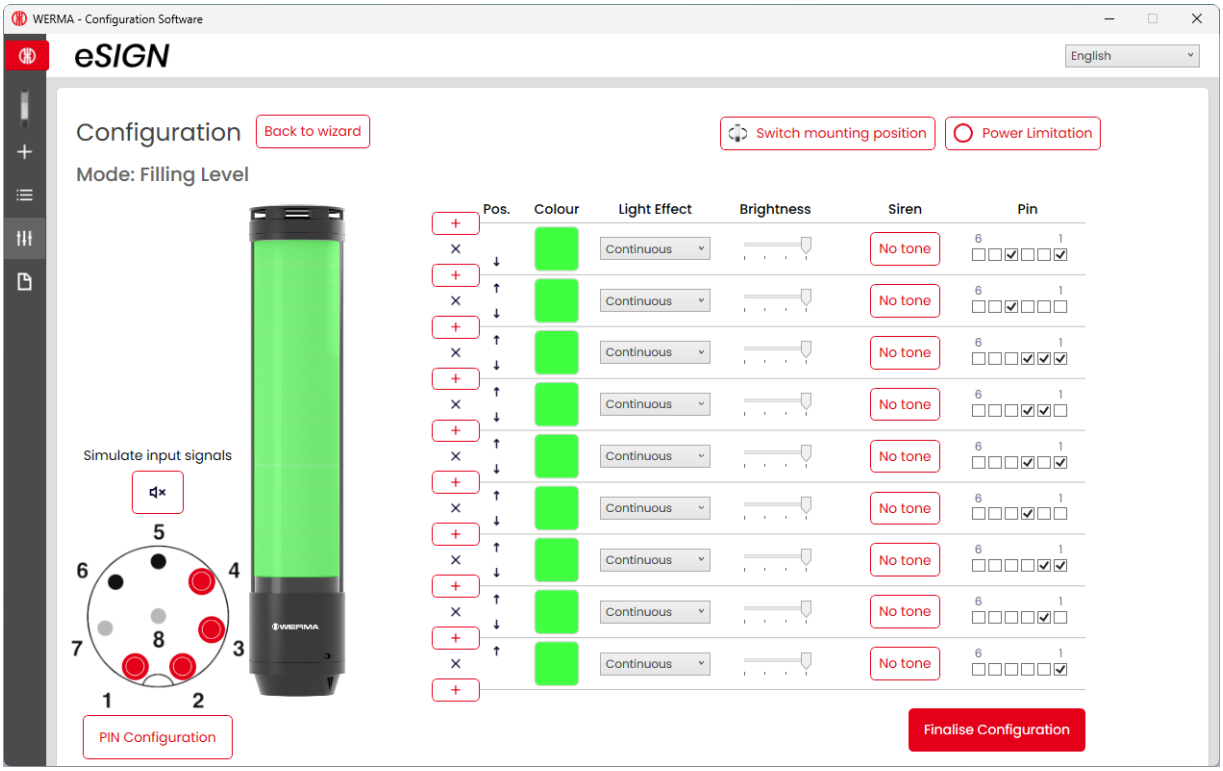
1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.




2. Click on **Select colour**.


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

## 4.5.3.4 Configuring the filling level indicator




ⓘ 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 e*SIGN* 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.

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

EN

## Removing or adding segments

### Removing a segment

1. Click on **Delete**.

→ The segment has been removed.

### Adding a segment

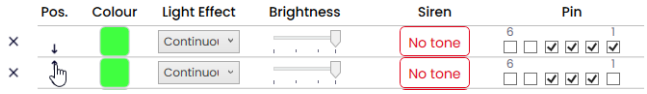
1. Click on **Add**.

→ 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.

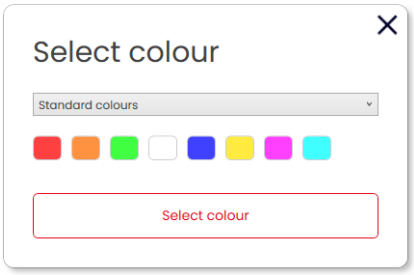


## Selecting a colour

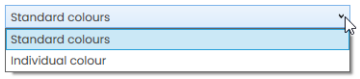
A standard colour can be selected for each segment or an individual colour assigned as required.

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


→ 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.

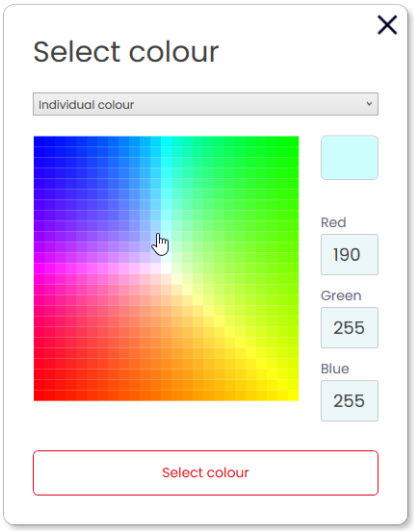
The following 8 standard colours are available:

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

EN

### Individual colour

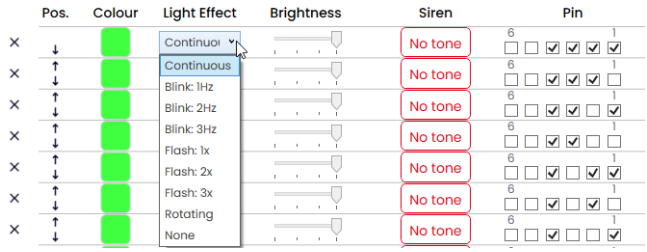
1. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.




2. Click on **Select colour**.


## Selecting a light pattern

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




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
- None

ⓘ The setting **None** 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.


## Selecting a siren

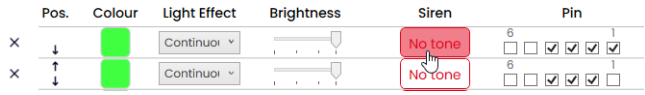
If the connected or selected e*SIGN* has a siren, you can select a signal tone which will sound when the segment is enabled.

---

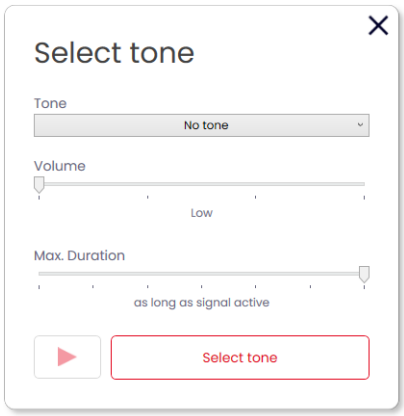
ⓘ If several tiers are set, and the tiers are enabled at the same time, the siren will sound for the colour with the highest priority (highest position within the tower).

---

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




→ The **Select tone** window appears.

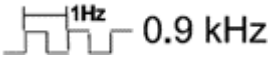
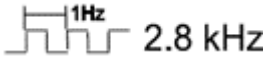
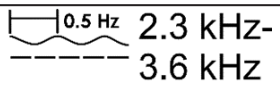
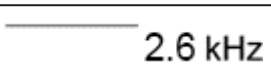
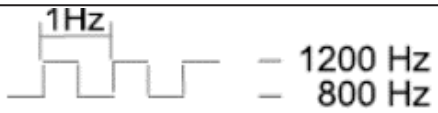



2. Select the desired **Tone** , the desired **Volume** and **Max. Duration**.

The following 10 tones are available:

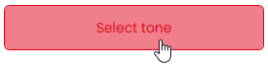
| Sound | Frequency | Description | Max. dB (A) |
|---|---|---|---|
| 1 | 2.7 kHz | Continuous tone | 104 |
| 2 | 0.9 kHz | Continuous tone | 96 |
| 3 | 420Hz 2.8 kHz | Pulse tone | 97 |
| 4 | 20Hz 0.9 kHz | Pulse tone | 93 |
| 5 | 20Hz 2.8 kHz | Pulse tone | 103 |

EN

| Sound | Frequency | Description | Max. dB (A) |
|---|---|---|---|
| 6 |  | Pulse tone | 96 |
| 7 |  | Pulse tone | 104 |
| 8 |  | Sweep tone | 104 |
| 9 |  | Continuous tone | 105 |
| 10 |  | Alternating tone | 92 |

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

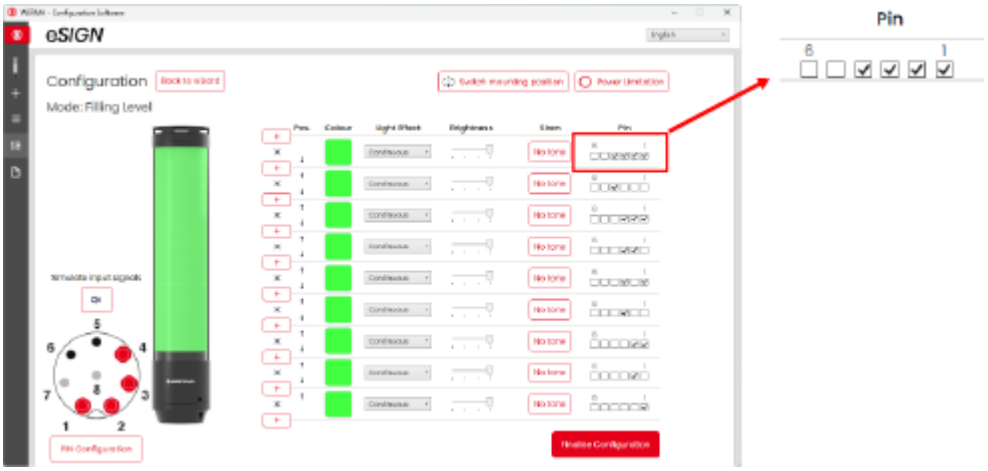
ⓘ The fields are pre-configured with a standard configuration, starting from the bottom tier of the tower with pin 1.

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

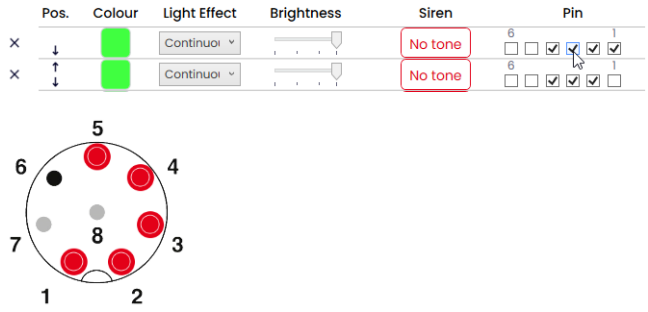
The filling level indicator is triggered via bit coding. The checkboxes in the **Pin** column correspond to the 6 pins or signal inputs. Selecting one or more checkboxes indicates that these pins or signal inputs must be triggered to enable the corresponding setting.

**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 **Pin** column.



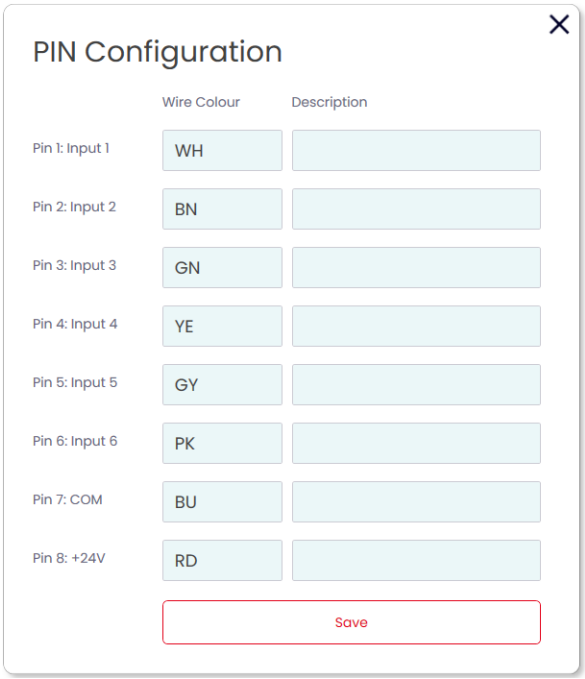
EN

### 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 **PIN Configuration** under the pin overview.


→ The **PIN Configuration** window appears.

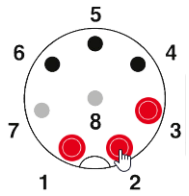



2. Enter the desired wire colour in the **Colour** column.
3. Enter the description of the signal in the **Description** column.
4. Click on **Save**.

### 4.5.3.5 Simulating signal inputs

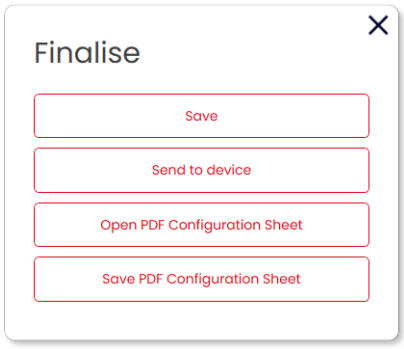
Once all settings have been made, the signal inputs can be simulated.

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




### 4.5.3.6 Finalising a configuration

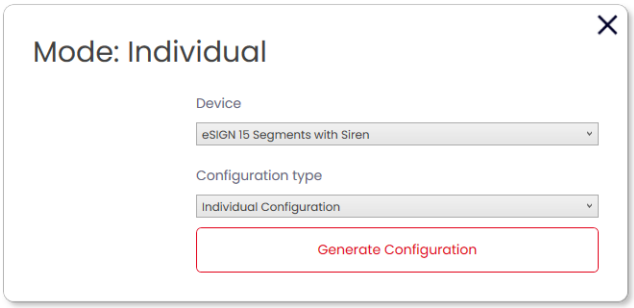
1. Make additional changes to the configuration as required.
2. Once all tiers are configured as desired, click on **Finalise**.
   → The **Finalise** window appears.




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 e*SIGN*.
5. Click on **Open PDF Configuration Sheet** to display an overview of the current configuration.
6. Click on **Save PDF Configuration Sheet** to save the overview of the current configuration as a PDF file.

## 4.5.4 Individual mode

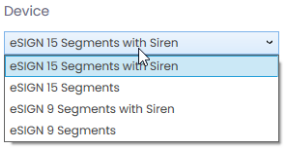
A free combination of individual segment settings is mapped to a certain switching signal in this operating mode. Every e*SIGN* segment can be individually set and triggered as a complete signal pattern in the form of the entire signal tower. The **Individual** mode enables a maximum of individual signalling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




### 4.5.4.1 Selecting a e*SIGN* variant

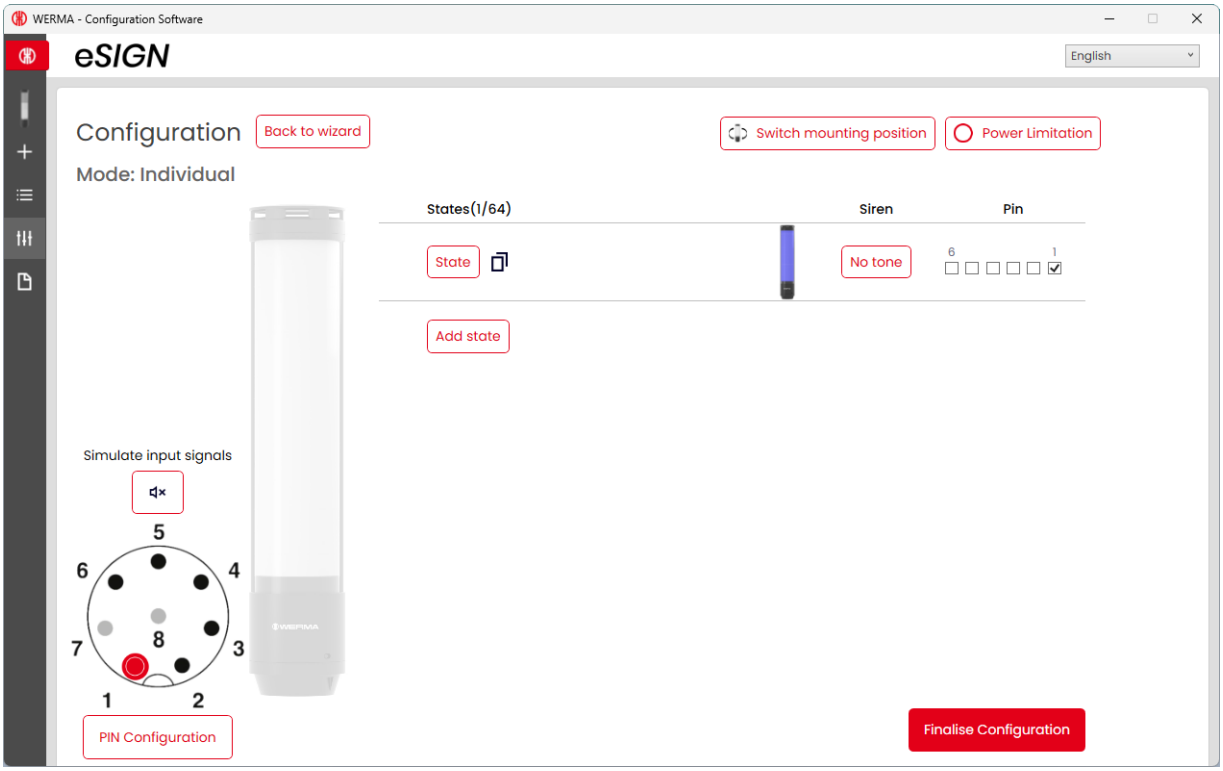
The variant is pre-selected accordingly if an *SIGNe* has been connected. If no e*SIGN* has been connected, the variant of the e*SIGN* to be configured can be selected.

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




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

## 4.5.4.2 Configuring signal patterns




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

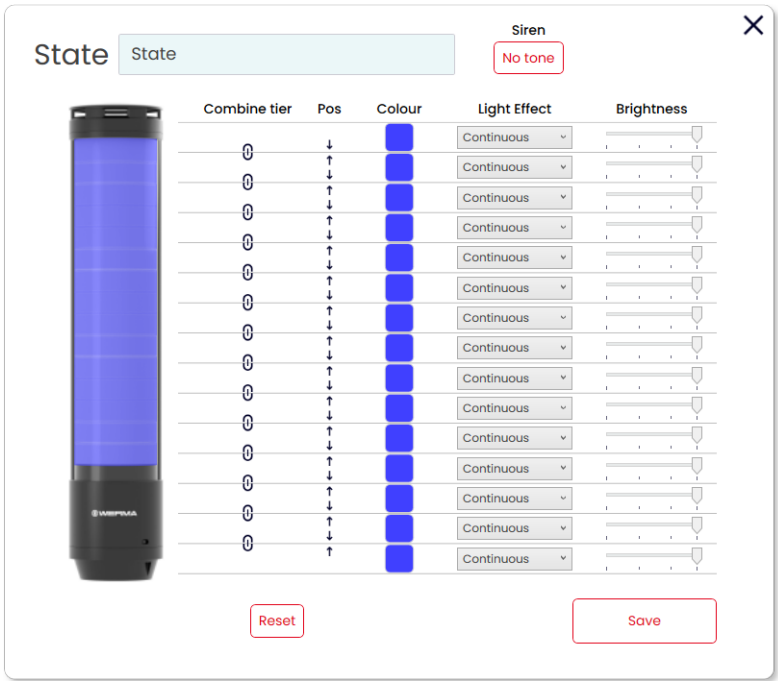
## Modifying a signal pattern

Up to 64 signal patterns can be configured and transferred to an e*SIGN*.

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

1. Click on **State**.


→ The **State** window appears.




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

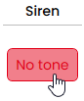
## Naming a signal pattern

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

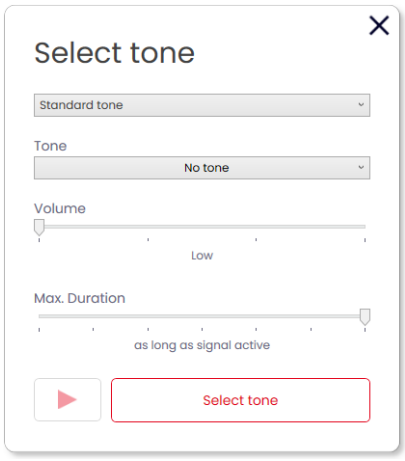
## Selecting a siren

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

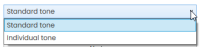
1. Click on **No tone** in the **Siren** field.




→ The **Select tone** window appears.




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



EN

**Standard tone**

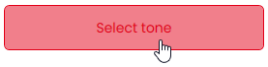
**3.** Select the desired **Tone** , the desired **Volume** and **Max. Duration**.

The following 10 tones are available:

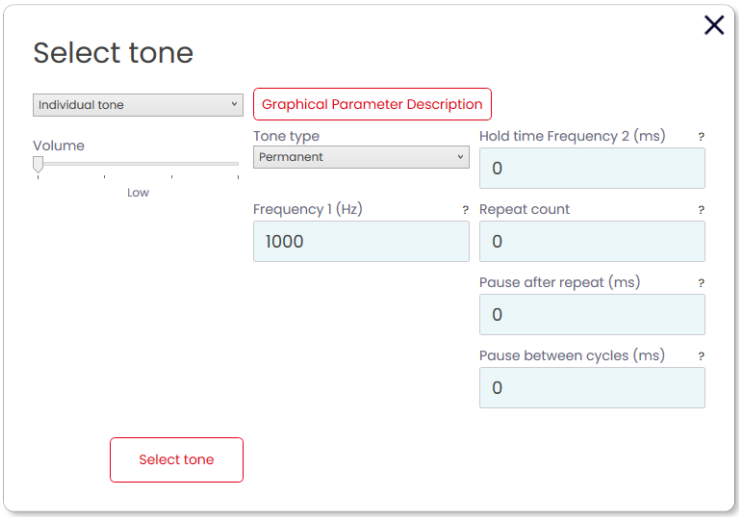
| Sound | Frequency | Description | Max. dB (A) |
|---|---|---|---|
| 1 | 2.7 kHz | Continuous tone | 104 |
| 2 | 0.9 kHz | Continuous tone | 96 |
| 3 | 420Hz 2.8 kHz | Pulse tone | 97 |
| 4 | 20Hz 0.9 kHz | Pulse tone | 93 |
| 5 | 20Hz 2.8 kHz | Pulse tone | 103 |
| 6 | 1Hz 0.9 kHz | Pulse tone | 96 |
| 7 | 1Hz 2.8 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 1200 Hz 800 Hz | Alternating tone | 92 |

ⓘ 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



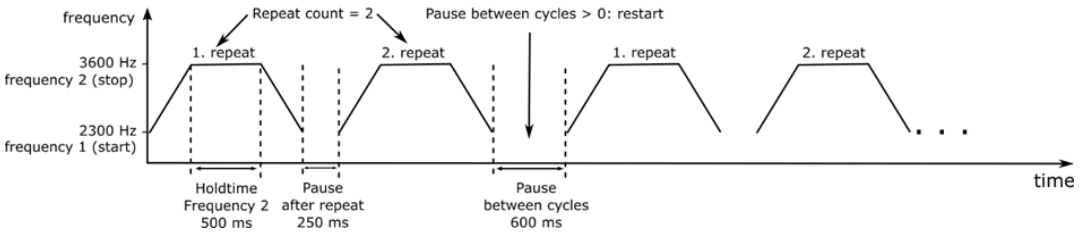

**1.** Make the settings as desired.

---

ⓘ 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.

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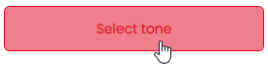
**2.** Click on **Select tone**.



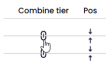
EN

## 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 **Stufen verbinden** symbol in the **Stufen verbinden** column.



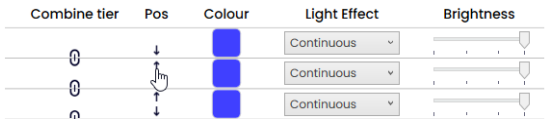

### Separating segments

1. Click on the **Stufen trennen** symbol in the **Stufen verbinden** 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.

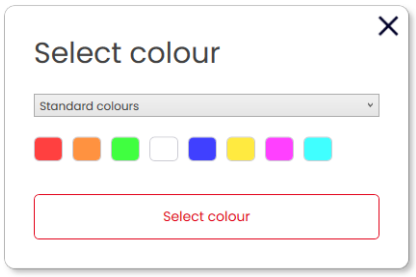



## Selecting a colour

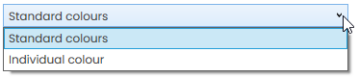
A standard colour can be selected for each segment or an individual colour assigned as required.

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


→ The **Select colour** window appears.



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




**Standard colour**

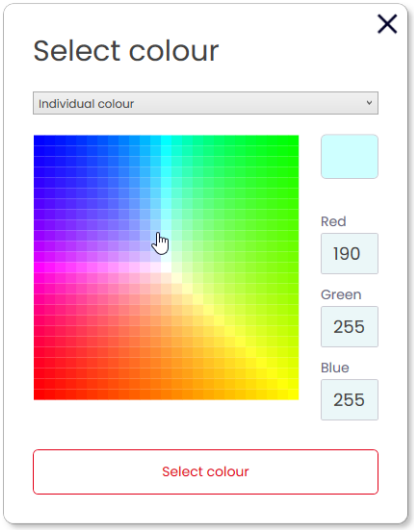
1. Click on the desired colour field.

The following 8 standard colours are available:

- red
- yellow
- green
- white
- blue
- light yellow
- violet
- 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.

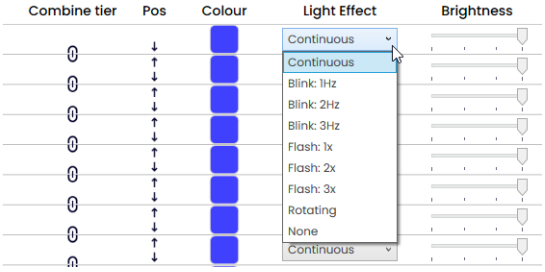



2. Click on **Select colour**.

EN

## Selecting a light pattern

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




The following 8 light effects are available:

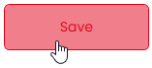
- Continuous light
- Blinking 1 Hz
- Blinking 2 Hz
- Blinking 3 Hz
- Flashing 1x
- Flashing 2x
- Flashing 3x
- Rotating
- None

## Setting the brightness

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


As soon as all settings have been made:

2. Click on **Save**.



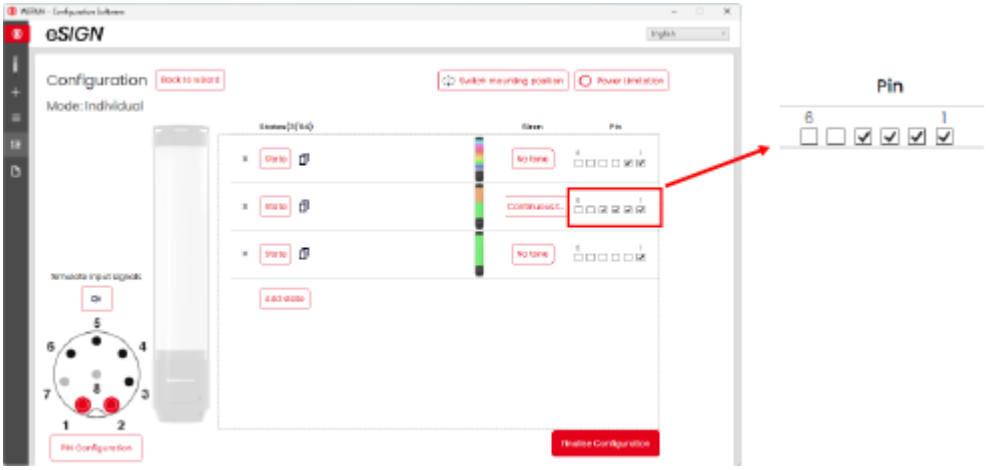
## 4.5.4.3 Selecting a pin

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

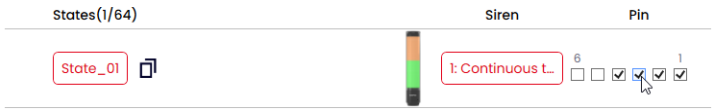
The individual signal effects are triggered via bit coding. The checkboxes in the **Pin** column correspond to the 6 pins or signal inputs. Selecting one or more checkboxes indicates that these pins or signal inputs must be triggered to enable the corresponding signal pattern.

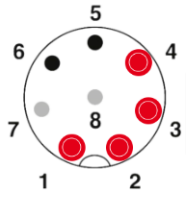
**Example:**

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 **Pin** column.



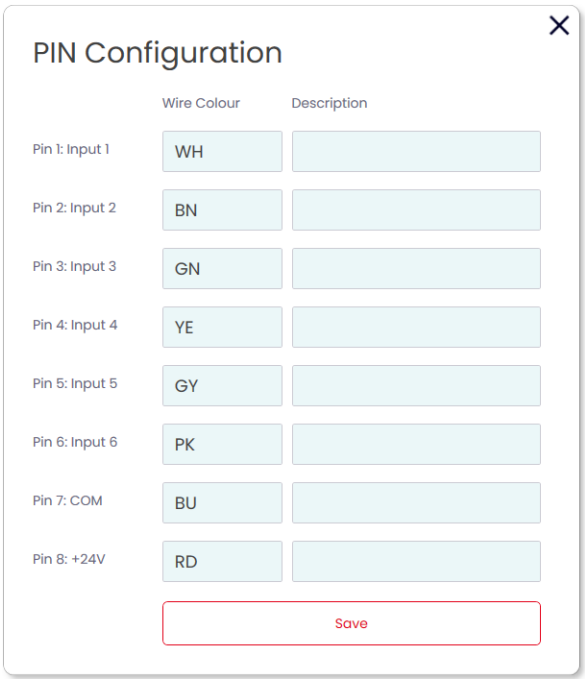
EN

### 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 **PIN Configuration** under the pin overview.


→ The **PIN Configuration** 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**.

## 4.5.4.4 Duplicating a signal pattern

Up to 64 signal patterns can be configured and transferred to an e*SIGN*.

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 e*SIGN*.

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.

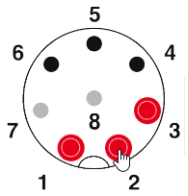
### 4.5.4.6 Deleting a signal pattern

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.

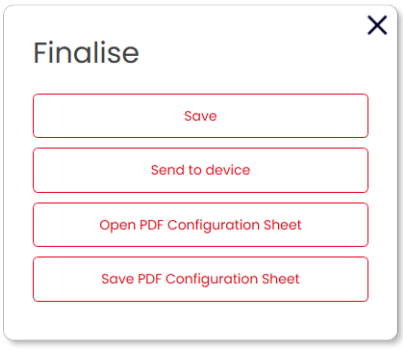
1. Click on the pin that enables the desired signal effect in the pin overview.



EN

### 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.

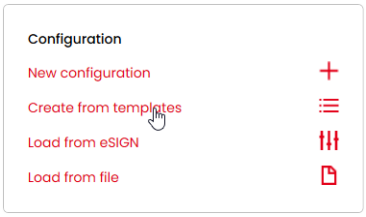



3. Click on **Save** to save the configuration in a configuration file.
4. Click on **Send to device** to transfer the configuration to the connected e*SIGN*.
5. Click on **Open PDF Configuration Sheet** to display an overview of the current configuration.
6. Click on **Save PDF Configuration Sheet**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

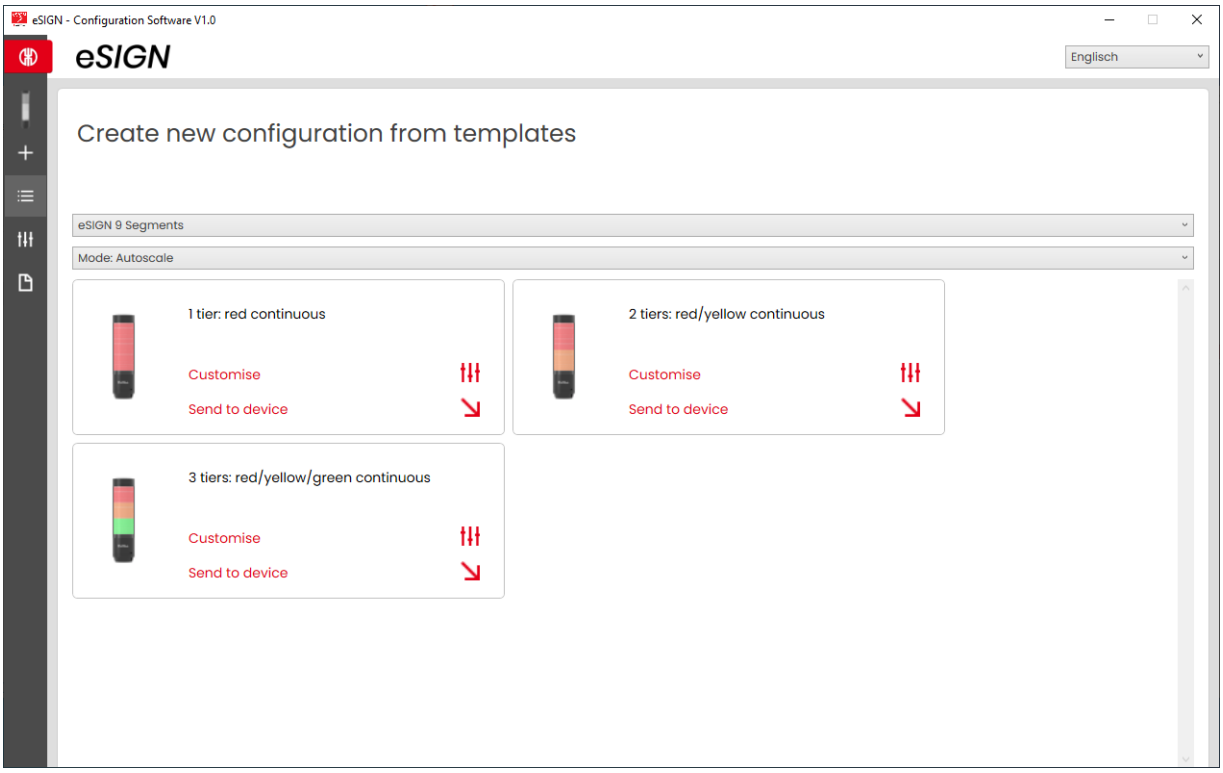
# 4.6 Creating a configuration from sample templates

The WERMA - Configuration Software provides several predefined configurations that can be transferred directly to a connected e*SIGN* 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 e*SIGN* 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 e*SIGN*.

---

ⓘ For more information on the configuration, see "*Creating a new configuration*", S. 104.

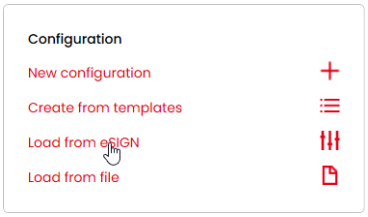
---

EN

## 4.7 Loading the configuration of the connected e*SIGN*

If an e*SIGN* 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 e*SIGN* 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.

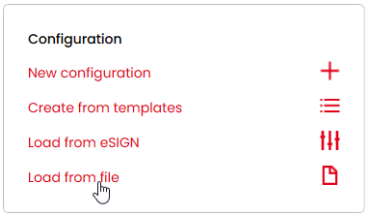
---

ⓘ For more information on the configuration, see "*Creating a new configuration*", S. 104.

---

# 4.8 Opening an existing configuration

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. 102).

---

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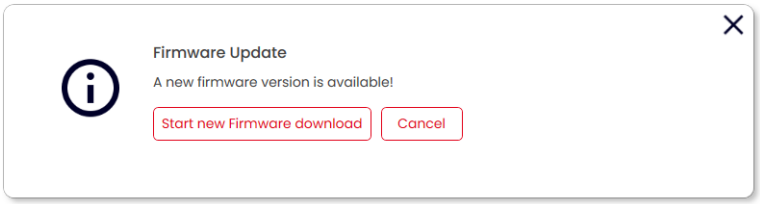
# 4.9 Updating the firmware

The computer must be connected to the Internet and an e*SIGN* 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 e*SIGN*.
→ A corresponding message appears if an update is found.




2. Click on **Start new Firmware download**.
→ The new firmware is transferred to the connected e*SIGN*.

# 5 Configuring the MC55 Touch S

## 5.1 Function

The new MC55 Touch S 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.

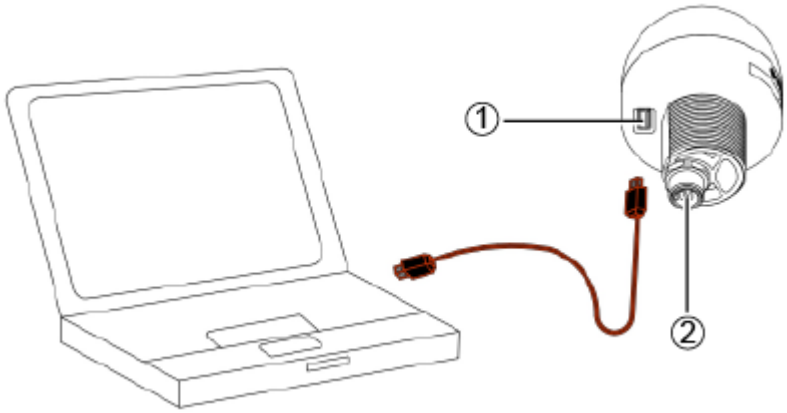
From the simple acknowledgement of an acoustic alarm, to the transmission of a 24 V signal and the mapping of process cycles using time-controlled escalations, the MC55 Touch S offers a wide range of possible applications.

## 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
- 240.260.55 MC55 Touch 24 VDC NPN
- 240.270.55 MC55 Touch 24 VDC NPN Acoustic
- 240.280.55 MC55 Touch 24 VDC PNP
- 240.290.55 MC55 Touch 24 VDC PNP Acoustic

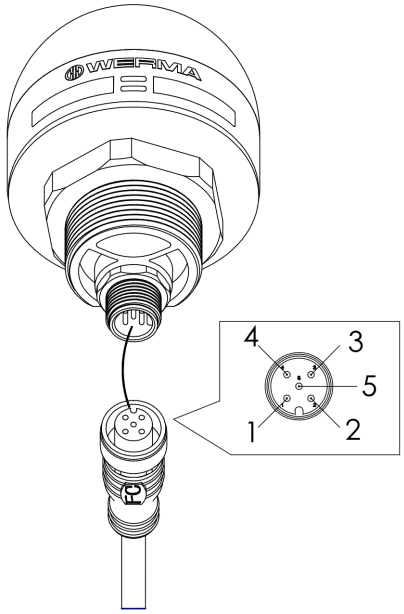
### 5.2.1 Overview of the connection area




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

## 5.2.2 Overview of the 5-pin M12 connector

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

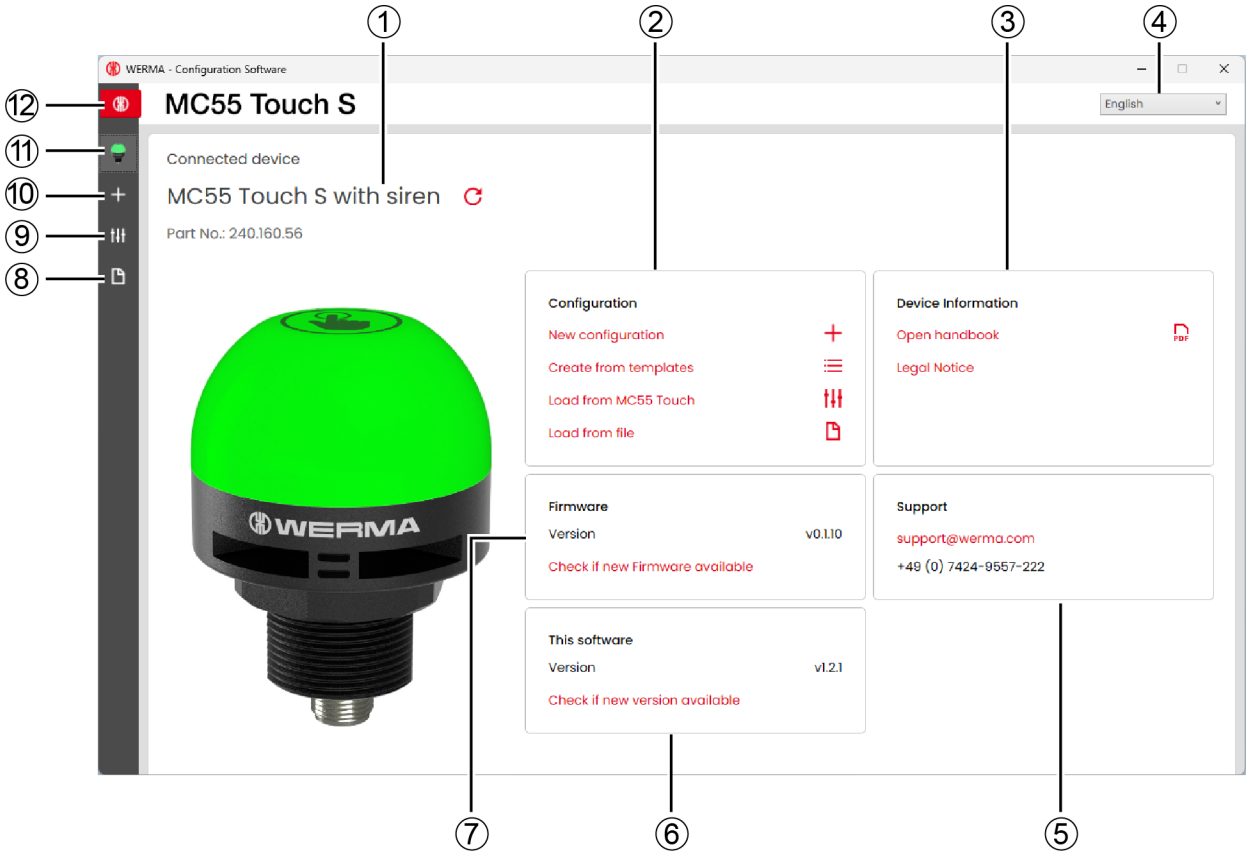



| M12 pin assignment | Wire colour of M12 cable | Function |
|---|---|---|
| 1 | brown | Signal 1 |
| 2 | white | Signal 2 |
| 3 | blue | COM |
| 4 | black | Output 24 V; 200 mA |
| 5 | grey | Signal 3 |

## 5.2.3 Default setting

The MC55 Touch S 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 S |
| 2 | **Configuration** area |
| 3 | **Device Information** area |
| 4 | Setting the language |
| 5 | **Support** area |
| 6 | **This software** area |
| 7 | **Firmware** area |
| 8 | Opening an existing configuration |
| 9 | Loading a configuration from the MC55 Touch S |
| 10 | Creating a configuration from sample templates |
| 11 | Opening the start screen |
| 12 | Device selection |

### 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. 161).
- **Create from templates**: Open standard templates that can be transferred to the device immediately (see *"Creating a configuration from sample templates"*, S. 175).
- **Load from MC55 Touch**: Open the current configuration (for example the default setting) for editing (see *"Loading the configuration of the connected MC55 Touch S"*, S. 177).
- **Load from file**: Open and reuse an existing configuration (see *"Opening an existing configuration"*, S. 178).

### 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

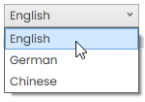
The **This software** area displays information about the version status of the WERMA - Configuration Software and offers a possibility to update the configuration software.

### 5.3.5 Firmware area

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

## 5.4 Setting the language

**1.** Select the desired language in the selection menu.

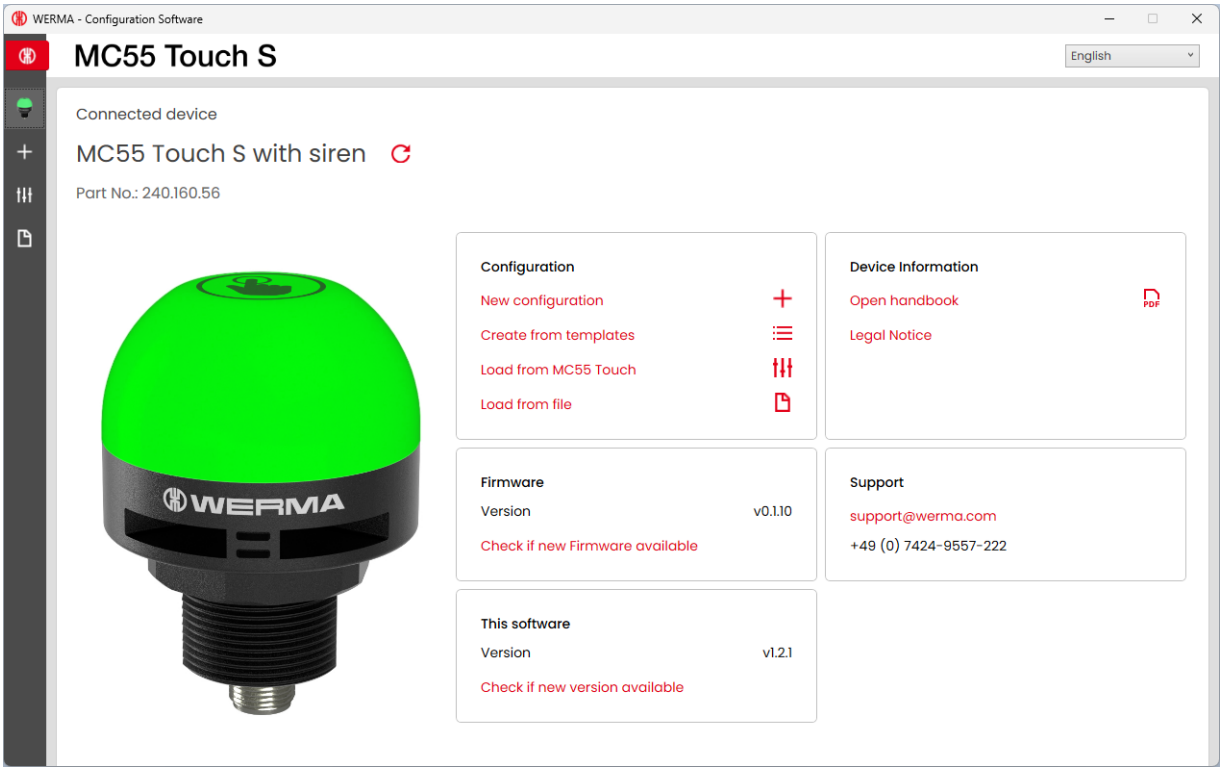


## 5.5 Creating a new configuration

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

ⓘ The MC55 Touch S 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 S to the computer.
   → The WERMA - Configuration Software detects the connected MC55 Touch S.




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

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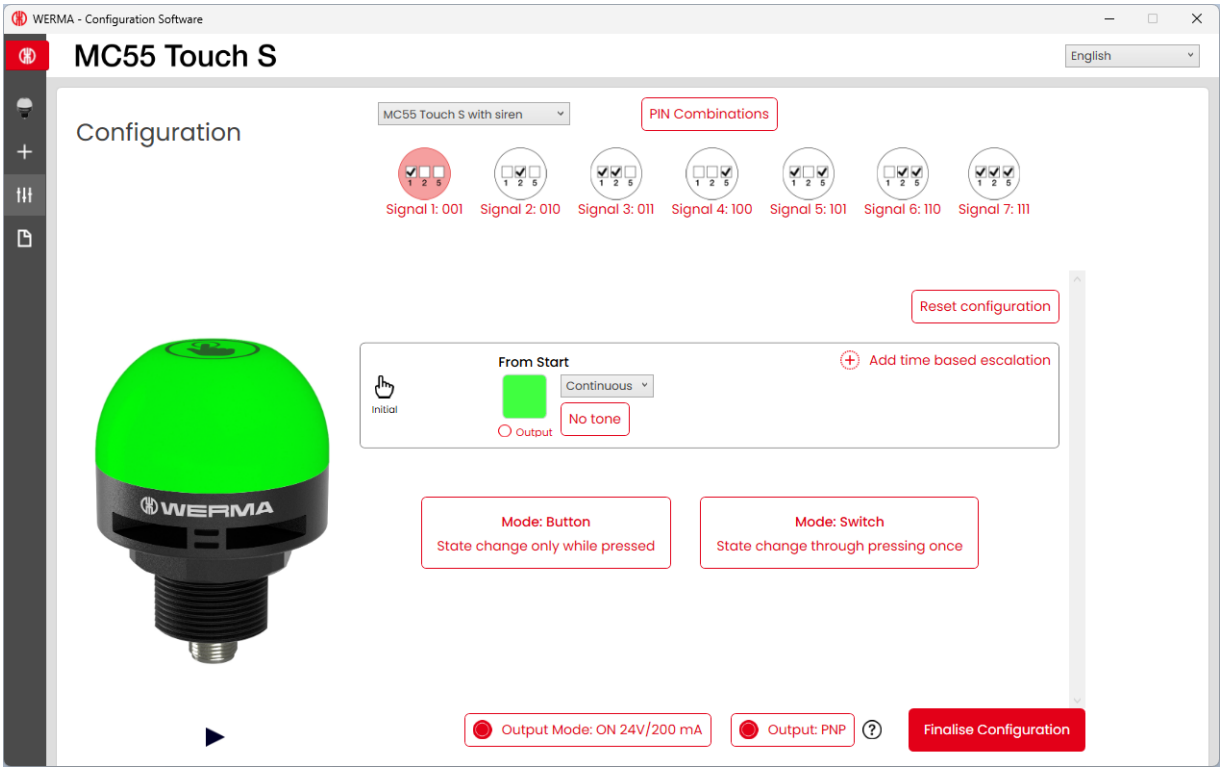
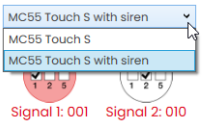
3. Click on **New configuration** in the **Configuration** area.


→ The **Configuration** screen appears.




4. If necessary, select the variant of the MC55 Touch S to be configured.




5. 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.

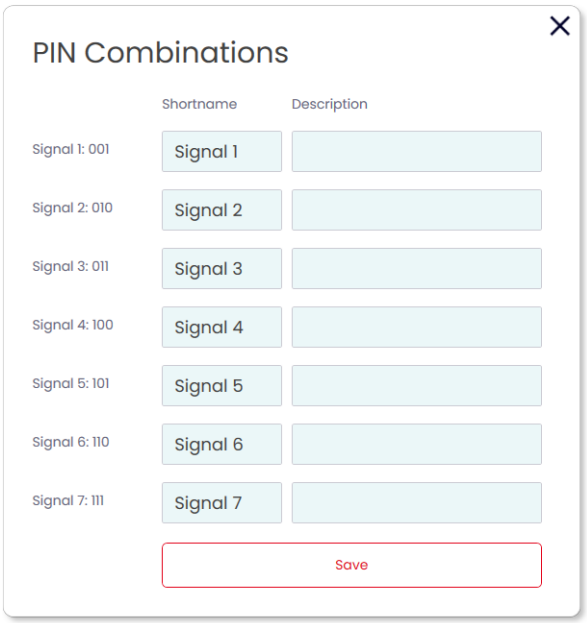
1. Click on the desired signal input.


### 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.


→ The **PIN Combinations** window appears.




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

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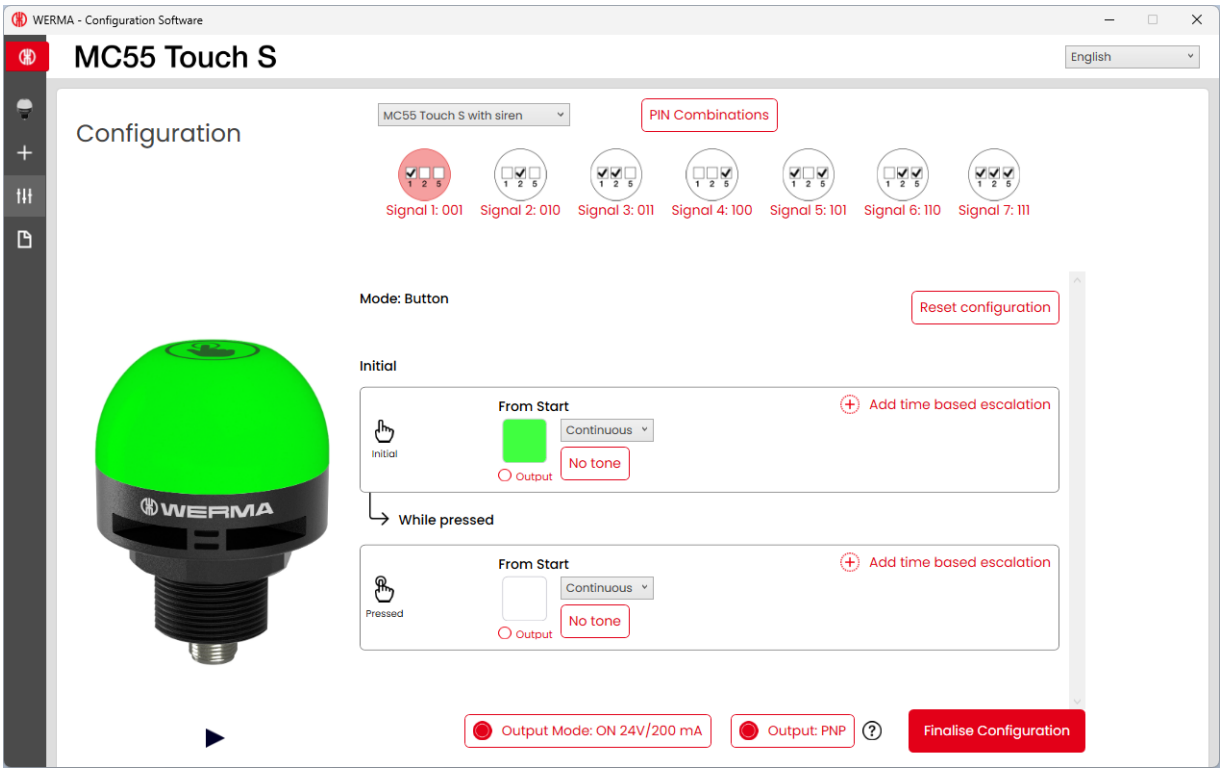
## 5.5.2 Changing the mode

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

### 5.5.2.1 Mode Button

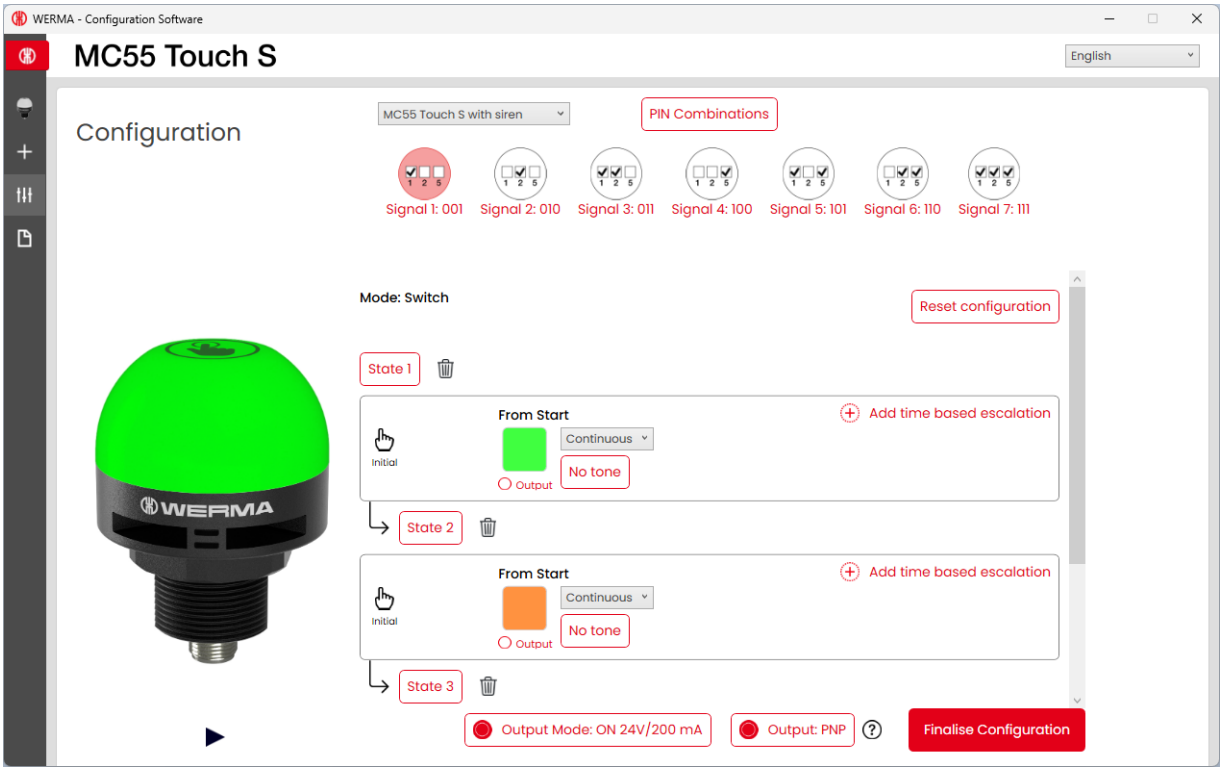



2 states can be configured in **Button** mode.

- Initial: Is active when current is present at the corresponding signal input and the MC55 Touch S is not pressed.
- Pressed: Is active when MC55 Touch S is pressed and kept pressed.
- As soon as the MC55 Touch S 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 S.

In **Switch** mode, the MC55 Touch S 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.

---

MC55 Touch S 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**.

EN

## 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

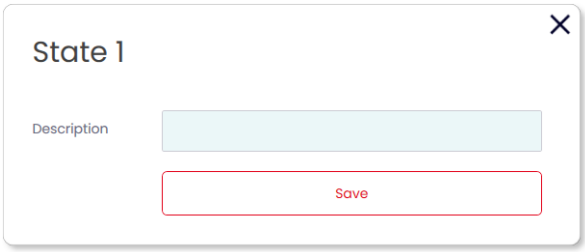
1. Click on **Add state**.


### 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.



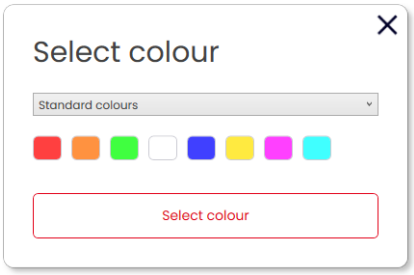

2. Enter the desired description of the state in the **Description** field.
3. Click on **Save**.

## 5.5.4 Selecting a colour

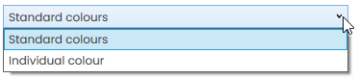
A standard colour or individual colour can be assigned to every tier.

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

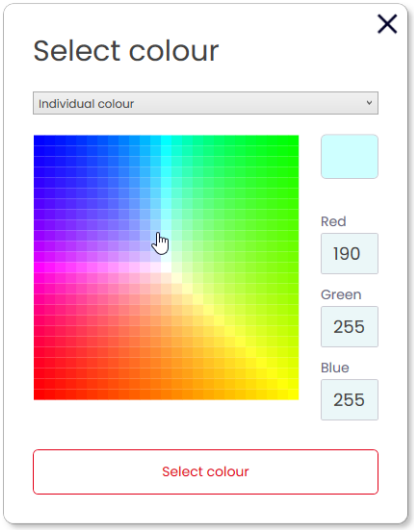
3. Click on the desired colour field.

The following 8 standard colours are available:

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

### 5.5.4.2 Individual colour

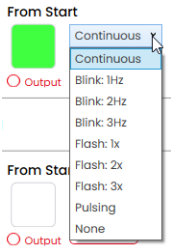
4. Select the desired colour in the colour field or enter the appropriate RGB value in the **Red**, **Green** and **Blue** fields.




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
- None

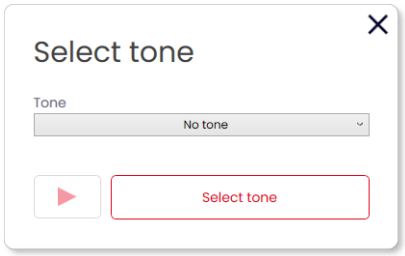
The setting **None** can be selected if the pin assignment is to be used only for sound or for continuous power supply.

## 5.5.6 Selecting a siren

If the connected or selected MC55 Touch S 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** .

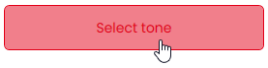
The following 10 tones are available:

| Sound | Frequency | Description | Max. dB (A) |
|---|---|---|---|
| 1 | 3.8 kHz | Continuous tone | 86 |
| 2 | 0.9 kHz | Continuous tone | 70 |
| 3 | 420Hz 2.1 kHz | Pulse tone | 67 |
| 4 | 20Hz 0.9 kHz | Pulse tone | 68 |
| 5 | 20Hz 2.65 kHz | Pulse tone | 66 |
| 6 | 1Hz 0.9 kHz | Pulse tone | 70 |
| 7 | 1Hz 3.8 kHz | Pulse tone | 87 |
| 8 | 0.5 Hz 2.3 kHz - 3.6 kHz | Sweep tone | 89 |

| Sound | Frequency | Description | Max. dB (A) |
|---|---|---|---|
| 9 | 2.65 kHz | Continuous tone | 67 |
| 10 | 1Hz 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.

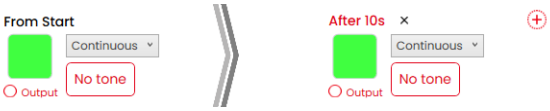
Once a time-based escalation has been configured, the next escalation is enabled after the set time has elapsed.

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

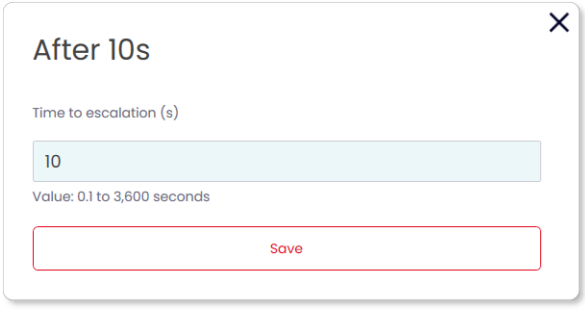
### 5.5.7.1 Adding a time-based escalation

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


→ An escalation level has been added.




**2.** Click on **after 10 s**.
→ The **After 10 s** window appears.



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

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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.

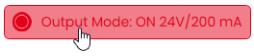
1. Click on **Delete** in the last escalation level.

## 5.5.8 Enabling the output

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

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


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




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

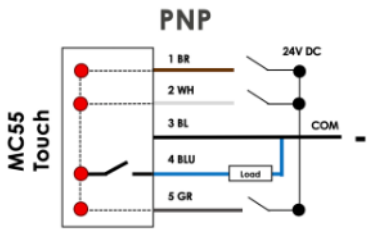
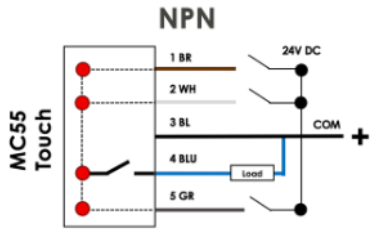
3. If necessary, switch between **Output: PNP** and **Output: NPN**.


⚠ **Note**

Damage to the MC55 Touch S

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

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

| Switching | Description | |
|---|---|---|
| **PNP** |  | – Positive switching<br>– Positive load is connected to the output. |
| **NPN** |  | – Negative switching<br>– Negative load is connected to the output. |

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## 5.5.9 Simulating signal inputs

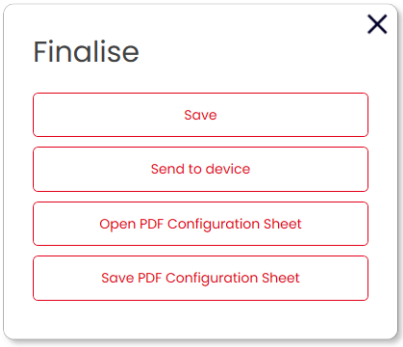
Once all settings have been made, the signal inputs can be simulated.

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 S.
   → The image of the MC55 Touch S 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 S.
3. The image of the MC55 Touch S shows the configured behaviour.
4. Click on ■ below the image of the MC55 Touch S 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 S.
5. Click on **Open PDF Configuration Sheet** to display an overview of the current configuration.
6. Click on **Save PDF Configuration Sheet** 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 S or used as a basis for your own configurations.

The following templates are available:

| Template | Description |
|---|---|
| Button Configuration | – The MC55 Touch S is configured as a button.<br>– A different state and the output are enabled in "On" mode as long as the MC55 Touch S is kept pressed.<br>– A different colour is used for each signal input.<br>Possible application:<br>– Another device should only be enabled while pressing on the MC55 Touch S. |
| Switch Configuration | – The MC55 Touch S is configured as a switch.<br>– A different state and the output are enabled in "On" mode when pressing on the MC55 Touch S.<br>– A different colour is used for each signal input.<br>– A maximum of 10 states can be created for each signal input.<br>Possible application:<br>– Give feedback to a control using the pulse output and in doing so switch the state of the MC55 Touch S or switch another device on/off. |
| Time-based escalation configuration | – The MC55 Touch S is configured as a button.<br>– After 60 seconds, the MC55 Touch S flashes red and the output is enabled in "On" mode.<br>– A maximum of 2 time-based escalations per state can be configured.<br>Possible application:<br>– 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 S.<br>– Visualise time-critical work steps by changing the light pattern. |
| IO-Block Compatible | – The MC55 Touch S is configured as a switch.<br>Possible application:<br>– IO block<br>– Signal input 1 is 24 V.<br>– Signal input 3 is COM.<br>– Signal inputs 2 and 4 indicate different colours. |

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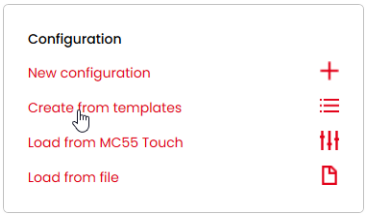
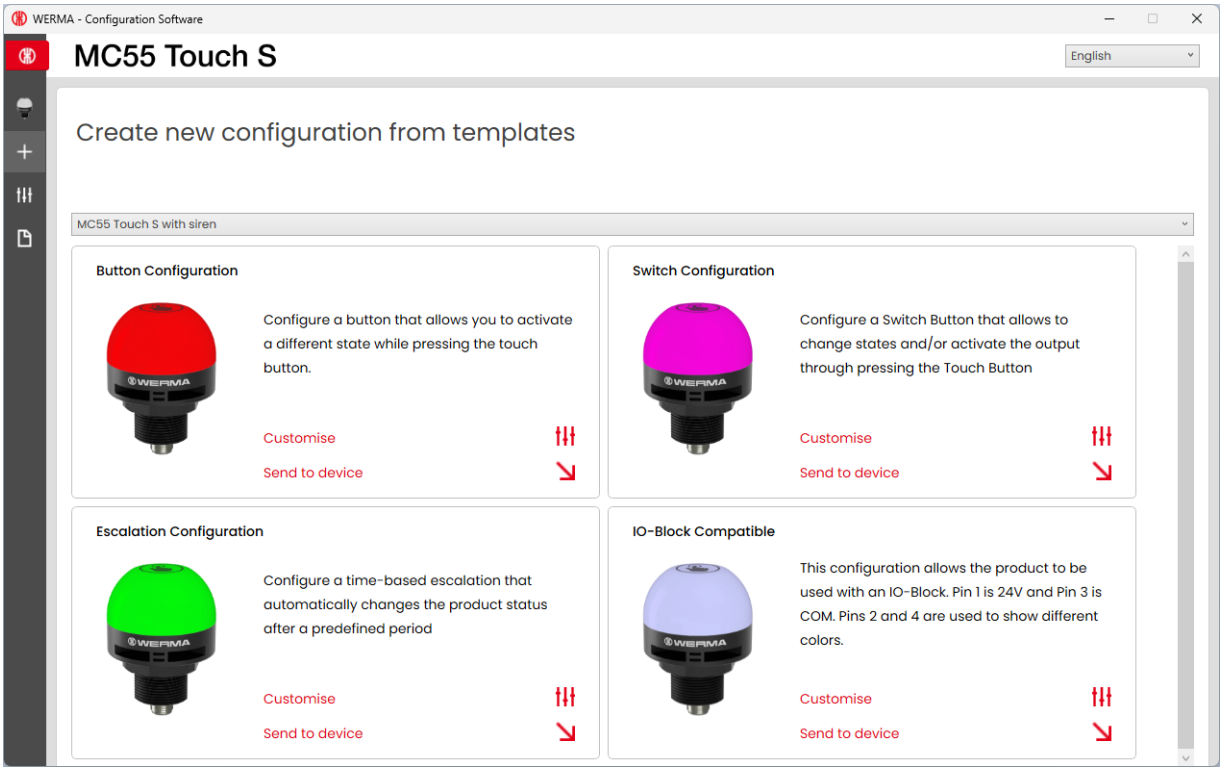
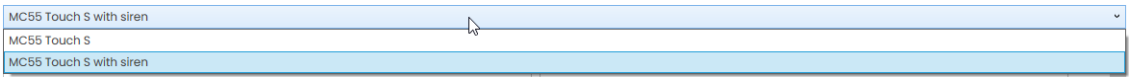
1. Click on **Create from templates** in the **Configuration** area.




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




2. Select the variant of the MC55 Touch S.



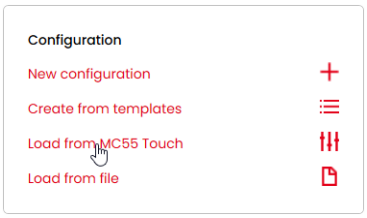
3. Click on **Customise** in the desired template to load and continue editing the template.
4. Click on **Send to device** to load the template and transfer it directly to the connected MC55 Touch S.

For more information on the configuration, see "*Creating a new configuration*", S. 161.

## 5.7 Loading the configuration of the connected MC55 Touch S

If an MC55 Touch S 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 S is connected, this menu item is faded out.

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

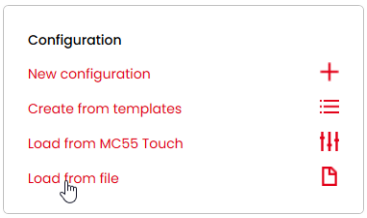



→ The **Configuration** window appears in the set mode and is already filled with the current configuration.

For more information on the configuration, see "*Creating a new configuration*", S. 161.

## 5.8 Opening an existing configuration

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



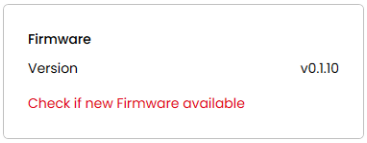

2. Select the desired configuration and click on **Open**.

Alternatively, the last used configurations can be displayed via the page menu (see "*Overview*", S. 159).

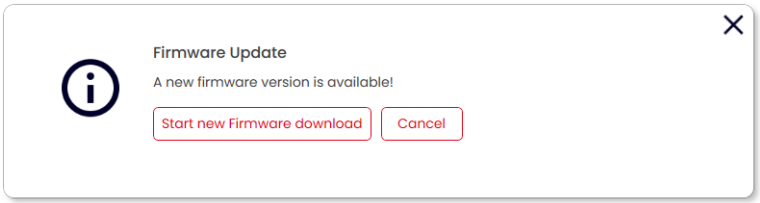
## 5.9 Updating the firmware

The computer must be connected to the Internet and an MC55 Touch S 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 S.
→ 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 S.

# 6 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.

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# 7 Support

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手册

# WERMA - 配置软件

版本 : 3.0 - 10/2024

310.657.006

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**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。

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# 目录

**1 概述 ..... 184**
1.1 功能 ..... 184
1.2 系统要求 ..... 184

**2 安装 WERMA - 配置软件 ..... 185**

**3 运行 WERMA - 配置软件 ..... 185**

**4 配置 MC55 Touch S ..... 186**
4.1 功能 ..... 186
4.2 硬件说明 ..... 186
4.2.1 接口区域概览 ..... 186
4.2.2 概述:5引脚 M12连接器 ..... 187
4.2.3 默认设置 ..... 187
4.3 概述 ..... 188
4.3.1 配置区域 ..... 189
4.3.2 设备信息区域 ..... 189
4.3.3 支持区域 ..... 189
4.3.4 这个软件区域 ..... 189
4.3.5 固件区域 ..... 189
4.4 设置语言 ..... 189
4.5 创建新配置 ..... 190
4.5.1 选择信号输入 ..... 192
4.5.2 更改模式 ..... 193
4.5.3 调整状态 ..... 195
4.5.4 选择颜色 ..... 196
4.5.5 选择灯光效果 ..... 197
4.5.6 选择警报器 ..... 198
4.5.7 自定义时间型升级 ..... 199
4.5.8 激活输出 ..... 201
4.5.9 模拟控制 ..... 202
4.5.10 完成配置 ..... 202
4.6 从示例模板中导入配置 ..... 203
4.7 加载所连 MC55 Touch S 的配置 ..... 205
4.8 打开现有配置 ..... 206
4.9 更新固件 ..... 206

**5 更新 WERMA - 配置软件 ..... 207**

**6 支持 ..... 208**

ZH

# 1 概述

## 1.1 功能

WERMA-配置软件 可以用来配置以下 WERMA 设备:

– e*SIGN* 信号灯柱

– MC55 Touch S

ⓘ 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<br>Windows 11<br>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 MC55 Touch S

## 4.1 功能

新款 MC55 Touch S 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，以及时间型升级，轻松实现多种信号模式。

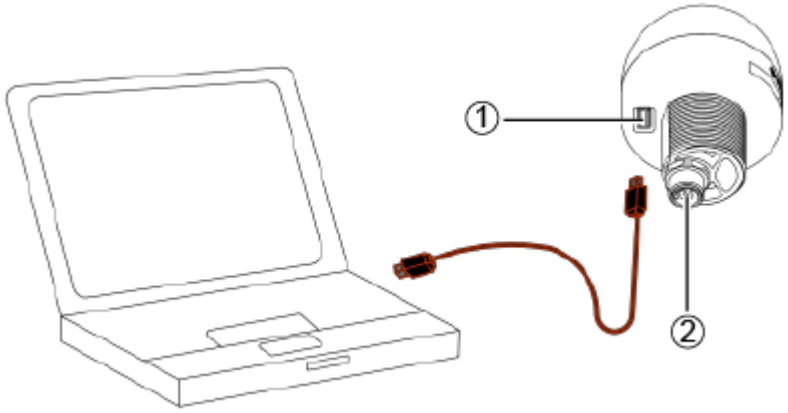
MC55 Touch S 支持多种应用场景，例如简单的音频警报确认、24 V 信号的切换、利用时间型升级进行流程模拟等，可满足各种不同需求。

## 4.2 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 带声音功能
- 240.260.55 MC55 Touch 24VDC NPN
- 240.270.55 MC55 Touch 24VDC NPN 带声音功能
- 240.280.55 MC55 Touch 24VDC PNP
- 240.290.55 MC55 Touch 24VDC PNP 带声音功能

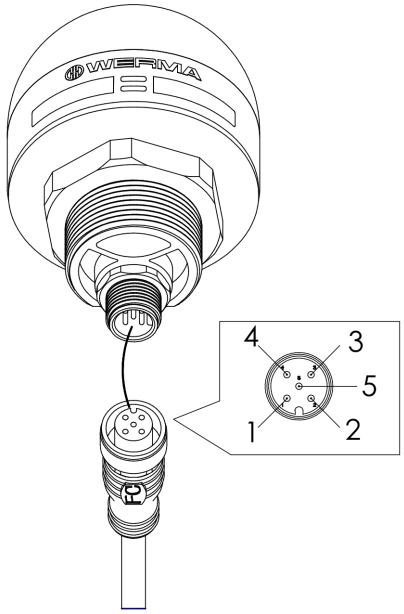
### 4.2.1 接口区域概览




| 位号 | 描述 |
|---|---|
| 1 | USB-C 端口 |
| 2 | 5 引脚 M12 连接器 |

## 4.2.2 概述:5 引脚 M12 连接器

MC55 Touch S 通过 5 引脚 M12 连接器连接,引脚分配如下:

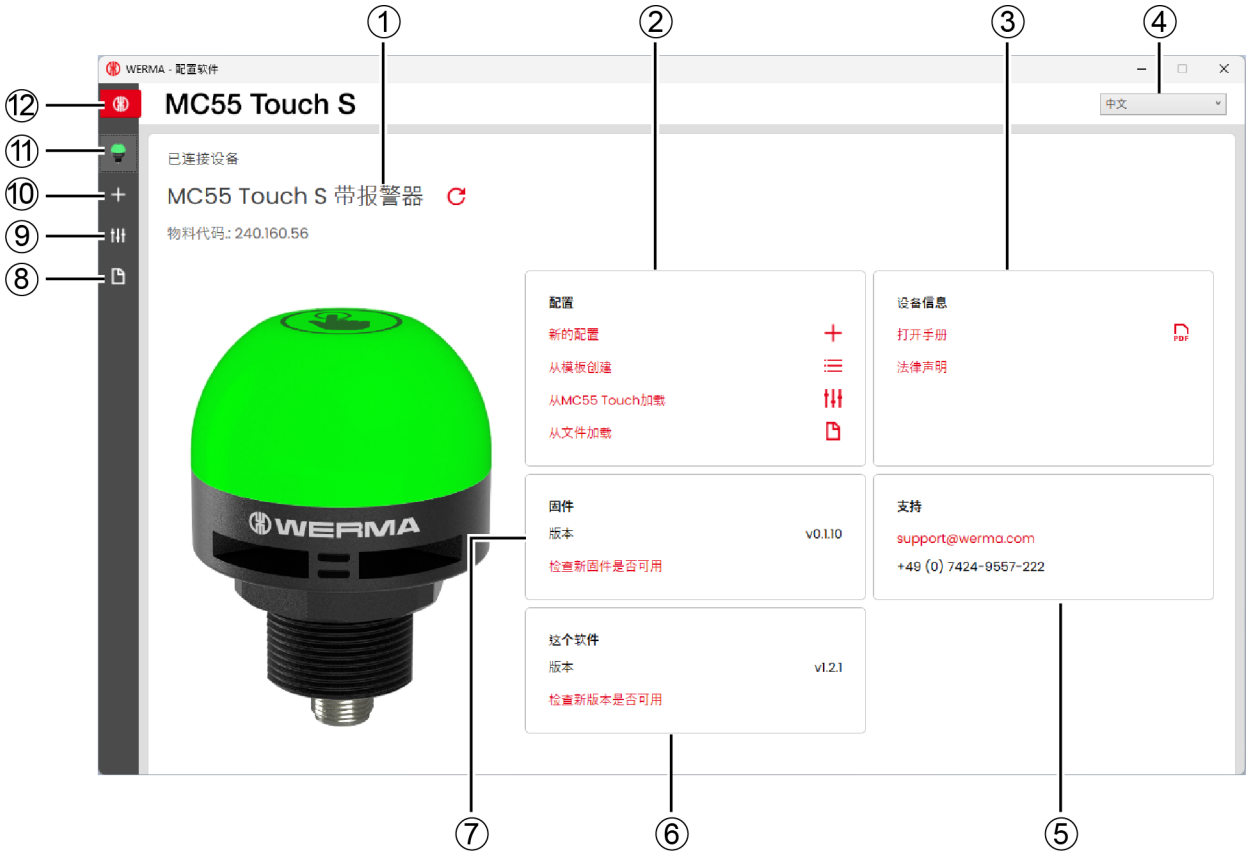



| M12 引脚分配 | 多股彩色 M12 电缆线 | 功能 |
|---|---|---|
| 1 | 棕色 | 信号 1 |
| 2 | 白色 | 信号 2 |
| 3 | 蓝色 | COM |
| 4 | 黑色 | 输出 24 V, 200 mA |
| 5 | 灰色 | 信号 3 |

## 4.2.3 默认设置

MC55 Touch S 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。

# 4.3 概述




| 位号 | 描述 |
|---|---|
| 1 | 所连接的 MC55 Touch S 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 | 打开现有配置 |
| 9 | 加载 MC55 Touch S 的配置 |
| 10 | 从示例模板中导入配置 |
| 11 | 调出主屏幕 |
| 12 | 设备选择 |

### 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*"，第 190 页）。
- **从模板创建**：打开可立即传输到设备的标准模板（请参阅 "*从示例模板中导入配置*"，第 203 页）。
- **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 "*加载所连 MC55 Touch S 的配置*"，第 205 页）。
- **从文件加载**：打开并再次使用现有配置（请参阅 "*打开现有配置*"，第 206 页）。

### 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

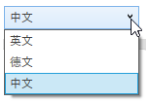
**这个软件** 区域显示 WERMA - 配置软件 当前版本信息，并提供配置软件更新选项。

### 4.3.5 固件区域

**固件** 区域显示所连 MC55 Touch S 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。

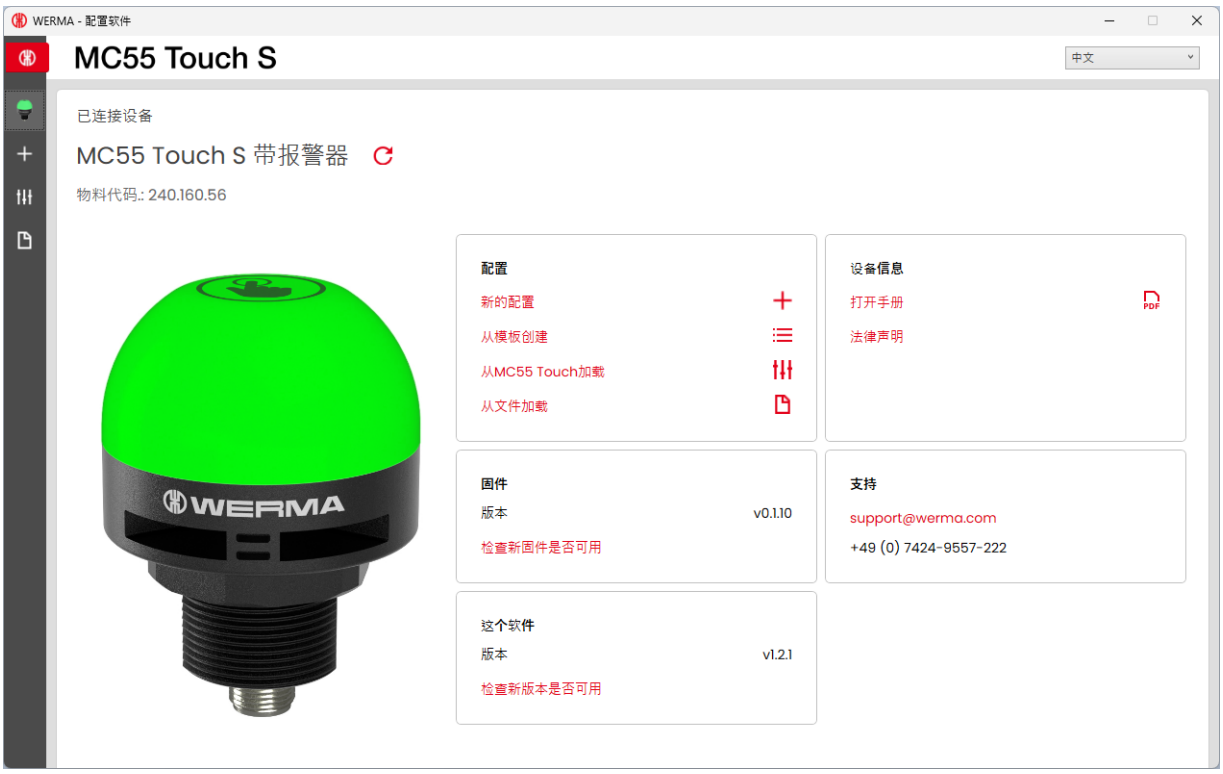


# 4.5 创建新配置

ⓘ 无论是否连接 MC55 Touch S，都可以进行配置。

ⓘ MC55 Touch S 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 S 连接至计算机。
→ WERMA - 配置软件 会识别出已连接的 MC55 Touch S。

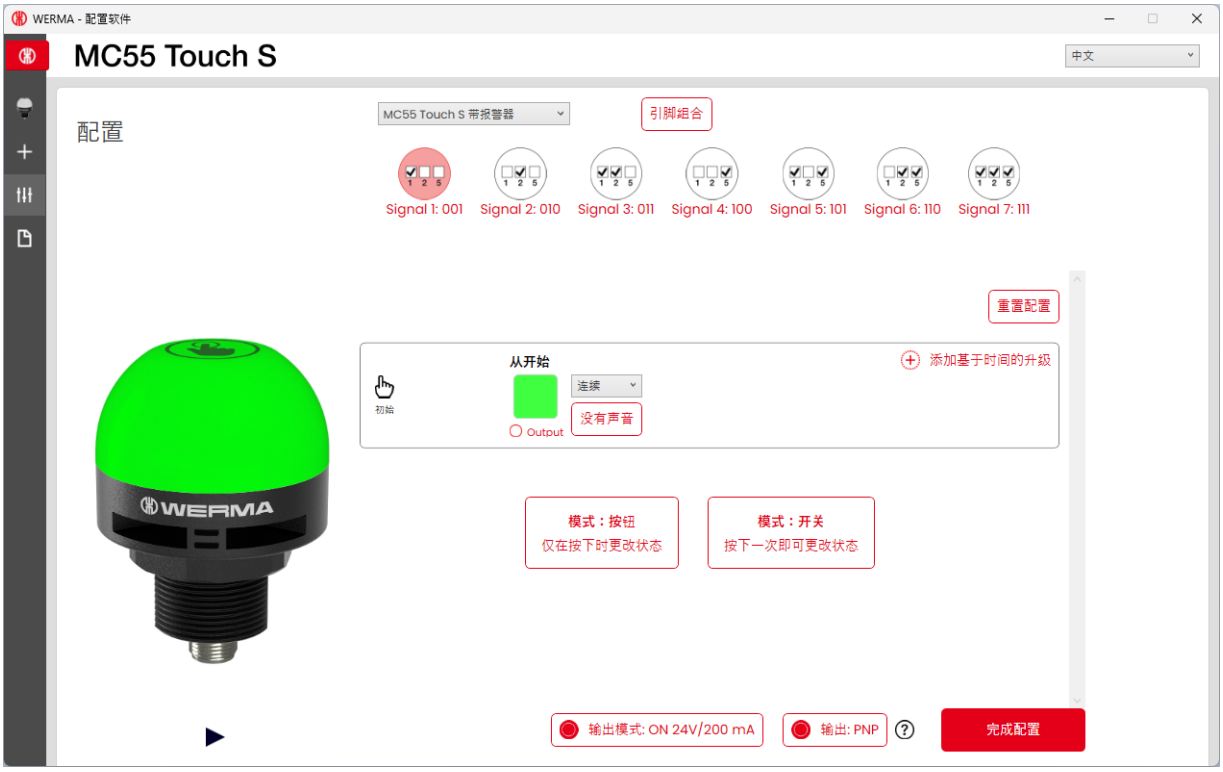



**2.** 如果 WERMA - 配置软件 无法识别所连接的 MC55 Touch S：点击 **刷新连接的设备**。

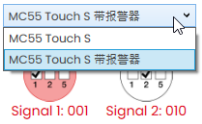
未连接设备

**3.** 点击 **配置** 区域的 **新的配置**。


→ **配置** 屏幕出现。




**4.** 如有必要，选择要配置的 MC55 Touch S 型号。




**5.** 选择 **模式：开关** 或 **模式：按钮**。

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## 4.5.1 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。


### 4.5.1.1 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**。

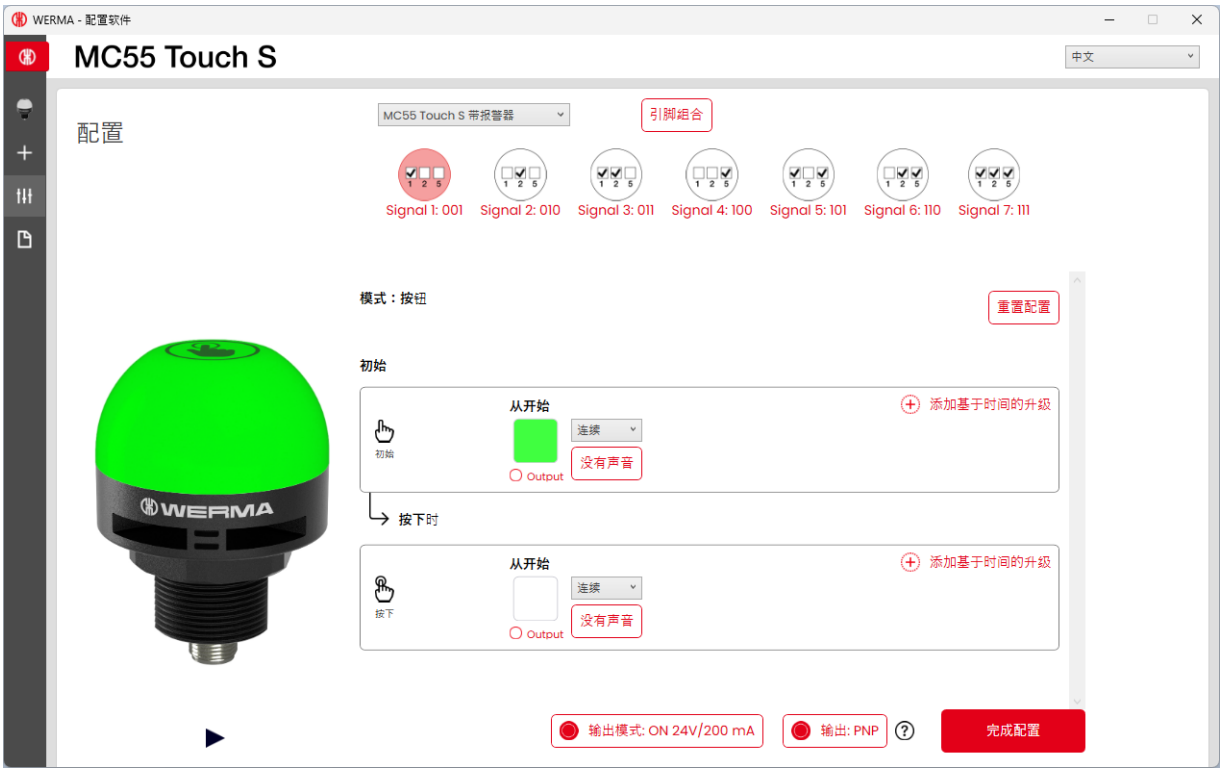

→ **引脚组合** 窗口出现。


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. 点击 **保存**。

## 4.5.2 更改模式

之后可以为每个信号输入选择 **按钮** 模式和 **开关** 模式。

### 4.5.2.1 按钮 模式




**按钮** 模式下可配置 2 种状态。

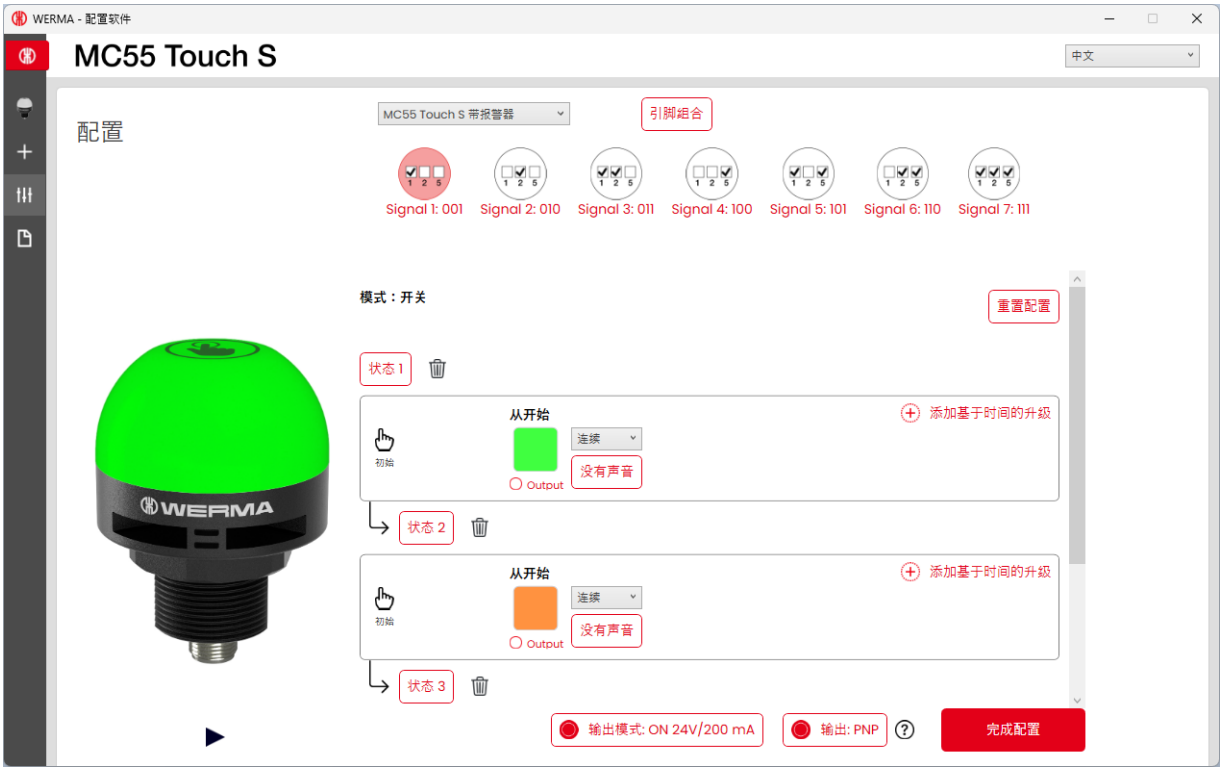
– 初始状态：相应的信号输入通电且未按下 MC55 Touch S 时。

– 被按下状态：MC55 Touch S 被按下并保持按下的状态时。

– 松开 MC55 Touch S 后，会变为初始状态。

可以设置每个状态的颜色、灯光效果、警报器（如果有）、时间型升级和输出。

## 4.5.2.2 开关 模式




**开关** 模式下可配置 10 种状态。每按一次 MC55 Touch S 即切换成下一个状态。

在 **开关** 模式下切换状态时，MC55 Touch S 会短暂亮起白色，为触摸输入识别提供反馈。

可以设置每个状态的颜色、灯光效果、警报器（如果有）、时间型升级和输出。

---

ⓘ MC55 Touch S 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**。

## 4.5.3 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。

### 4.5.3.1 添加状态

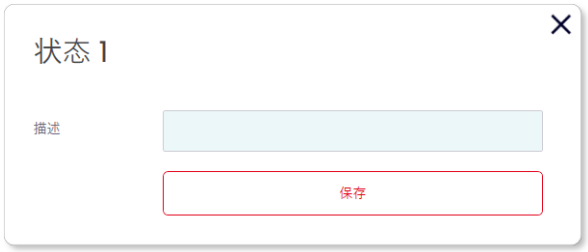
1. 点击 **添加状态**。


### 4.5.3.2 删除状态

1. 在要删除的状态旁（例如 **状态 3**）点击 🗑。


### 4.5.3.3 重命名状态

1. 点击状态（例如 **状态 1**）。
   → **状态 1** 窗口出现。




2. 在 **描述** 字段中输入所需的状态名称。
3. 点击 **保存**。

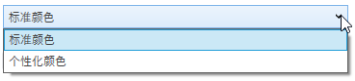
## 4.5.4 选择颜色

每个级别都可以分配一个默认颜色或自定义颜色。

1. 点击 **颜色** 列中的颜色字段。


→ **选择颜色** 窗口出现。


2. 选择是使用默认颜色还是自定义颜色。




### 4.5.4.1 默认颜色

3. 单击所需的颜色字段。

有以下 8 种默认颜色可供选择：

– 红色
– 黄色
– 绿色
– 白色
– 蓝色
– 淡黄色
– 紫色
– 蓝绿色

### 4.5.4.2 自定义颜色

**4.** 在颜色字段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**。

## 4.5.5 选择灯光效果

**1.** 点击颜色字段旁边的选择菜单，选择所需的灯光效果。


有以下 8 种灯光效果可供选择：

– 常亮
– 以 1 Hz 频率闪烁
– 以 2 Hz 频率闪烁
– 以 3 Hz 频率闪烁
– 闪光 1 次
– 闪光 2 次
– 闪光 3 次
– 呼吸式闪烁
– 无

ⓘ 如果引脚分配仅用于声音或持续供电，则可以选择 **无** 设置。

## 4.5.6 选择警报器

如果所连或所选 MC55 Touch S 有警报器，则可以选择一个信号音，它会在状态激活时响起。

**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 | 420Hz 2.1 kHz | 脉冲音 | 67 |
| 4 | 20Hz 0.9 kHz | 脉冲音 | 68 |
| 5 | 20Hz 2.65 kHz | 脉冲音 | 66 |
| 6 | 1Hz 0.9 kHz | 脉冲音 | 70 |
| 7 | 1Hz 3.8 kHz | 脉冲音 | 87 |
| 8 | 0.5 Hz 2.3 kHz - 3.6 kHz | 摇摆音 | 89 |
| 9 | 2.65 kHz | 连续音 | 67 |

| 声音 | 频率 | 描述 | 最大分贝(A) |
|---|---|---|---|
| 10 |  | 交替音 | 78 |

ⓘ 可以使用声音选择中的按钮 ▸ 来测试所选声音。声音会通过计算机播放。

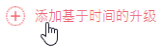
3. 点击 **选择声音**。


## 4.5.7 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。

### 4.5.7.1 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。

### 4.5.7.2 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**。

## 4.5.8 激活输出

MC55 Touch S 的数字 24V 输出可针对每个级别或每个单独的升级级别激活。

1. 激活所需级别或升级级别的**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。


ⓘ 在**脉冲**模式下，输出将产生至少 100 ms 的脉冲信号。

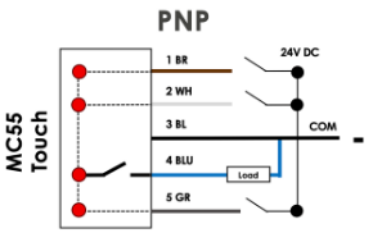
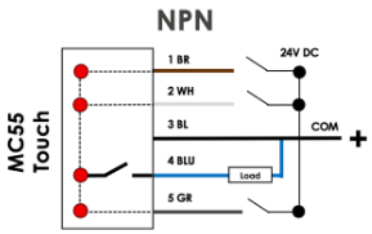
3. 如有必要，可在 **输出: PNP** 和 **输出 : NPN** 之间切换。


⚠ **说明**

MC55 Touch S 受损

MC55 Touch S 可能会因输出配置不当而受损。

1. 因此，请确保 MC55 Touch S 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<br>– 正负载切换到输出端。 |
| **NPN** |  | – 负向切换<br>– 负负载切换到输出端。 |

## 4.5.9 模拟控制

完成所有设置后，可以进行控制模拟。

模拟会展示灯光效果、时间型升级、输出状态，以及声音输出(用符号表示)。

1. 点击 MC55 Touch S 图像下方的 ▶。
   → MC55 Touch S 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 S 的操作。
3. MC55 Touch S 图像会显示已配置的行为。
4. 点击 MC55 Touch S 图像下方的 ■ 即可停止模拟。

## 4.5.10 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**，将配置保存到配置文件。
4. 点击 **发送到设备**，将配置传输到所连的 MC55 Touch S。
5. 点击 **打开PDF配置表**，查看当前配置的概述。
6. 点击 **保存PDF配置表**，将当前配置的概述另存为 PDF 文件。

# 4.6 从示例模板中导入配置

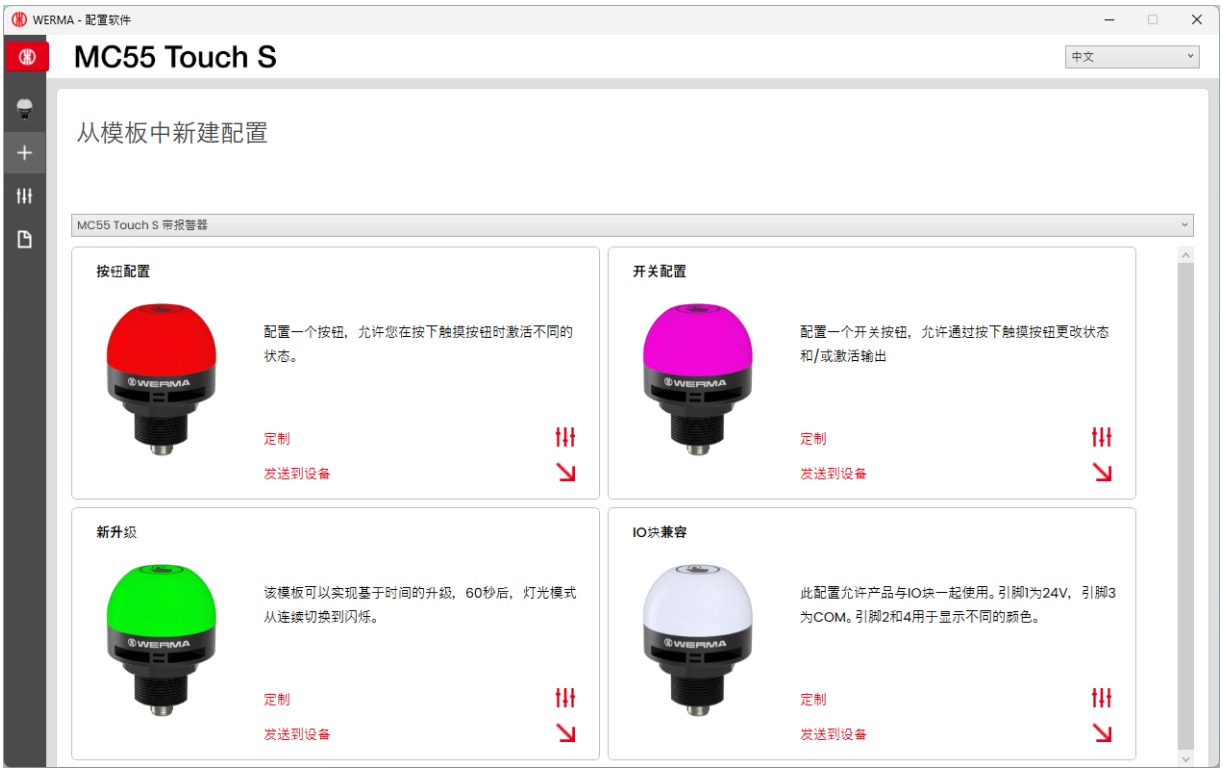
WERMA - 配置软件 提供多种预定义配置，这些配置可以直接传输到所连的 MC55 Touch S，也可以作为自定义配置的参考。

提供以下模板：

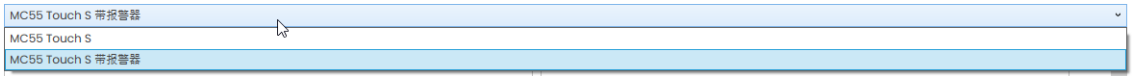
| 模板 | 描述 |
|---|---|
| 按钮配置 | – MC55 Touch S 被配置为按钮。<br>– 按住 MC55 Touch S 时，会激活另一状态以及“开启”模式下的输出。<br>– 每个信号输入使用不同的颜色表示。<br>可能的应用场景：<br>– 另一个设备仅在按住 MC55 Touch S 期间激活。 |
| 开关配置 | – MC55 Touch S 被配置为开关。<br>– 按下 MC55 Touch S 时，会激活另一状态以及“开启”模式下的输出。<br>– 每个信号输入使用不同的颜色表示。<br>– 每个信号输入最多可以设置 10 种状态。<br>可能的应用场景：<br>– 通过脉冲输出向控制器反馈，并在此过程中切换 MC55 Touch S 的状态，或控制另一个设备的开/关。 |
| 配置：时间型升级 | – MC55 Touch S 被配置为按钮。<br>– 60 秒后，MC55 Touch S 呈红色闪烁，并且激活“开启”模式下的输出。<br>– 每个状态最多可以配置 2 个时间型升级。<br>可能的应用场景：<br>– 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 S 来确认错误。<br>– 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 S 被配置为开关。<br>可能的应用场景：<br>– IO 模块<br>– 信号输入 1 为 24 V。<br>– 信号输入 3 为 COM。<br>– 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 S 的型号。



**3.** 点击所需模板上的 **定制**，以加载模板并继续编辑。

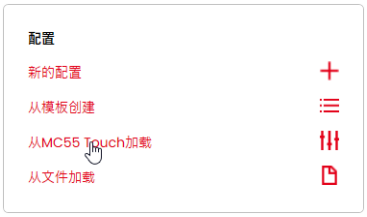
**4.** 点击 **发送到设备** 以加载模板，并直接将其传输到所连的 MC55 Touch S。

ⓘ 有关配置的详细信息，请参阅 "*创建新配置*", 第 190 页。

## 4.7 加载所连 MC55 Touch S 的配置

如果 MC55 Touch S 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 S，该菜单项将呈现灰色。

**1.** 点击 **配置** 区域的 **从MC55 Touch加载**。




→ **配置** 窗口会在已设置的模式下出现，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*", 第 190 页。

## 4.8 打开现有配置

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**。

ⓘ 或者可以通过侧边菜单显示最近使用过的配置(请参阅 "*概述*", 第 188 页)。

## 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 MC55 Touch S。

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 S 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 S。

# 5 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。

# 6 支持

WERMA Signaltechnik GmbH + Co.KG
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*www.werma.com*

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**INFORMATION AND NOTICES RELATED TO THE OPEN SOURCE SOFTWARE 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/ngx_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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