

# E-BOX XL IO-LINK, 5 installation points, with e-stop

NEW



## Description

IO-LINK products make it easy to get started and can be quickly integrated into existing environments thanks to the use of standardized M12 connectors. Easily connected and individually parameterized, the E-BOX offers a housing concept with up to 6 installation points.

## Mounting

- Use a flat mounting surface for installation.
- Fix the device to the mounting surface with two mounting screws with a diameter of max. 5.3 mm and a head diameter of max. 9.5 mm.

## Parameterization

- Flexible color selection: 5 standard colors plus 3 freely selectable RGB colors
- Night mode with different brightness levels and various flashing modes
- Can be diagnosed via the control unit: temperature and monitoring of switching cycles
- Buzzer with various sound modes



## technical data

### ➤ general

| Feature                                                     | with e-stop                    |
|-------------------------------------------------------------|--------------------------------|
| Actuator position 1                                         | FLEXLAB illuminated pushbutton |
| Actuator position 2                                         | FLEXLAB illuminated pushbutton |
| Actuator position 3                                         | FLEXLAB illuminated pushbutton |
| Actuator position 4                                         | FLEXLAB illuminated pushbutton |
| Actuator position 5                                         | Emergency stop                 |
| Installation points                                         | 5 pcs.                         |
| Color                                                       | light gray                     |
| Luminous element color                                      | RGB                            |
| Operating temperature, min.                                 | -30 °C                         |
| Operating temperature, max.                                 | 60 °C                          |
| Storage temperature, min.                                   | -40 °C                         |
| Storage temperature, max.                                   | 80 °C                          |
| illuminated                                                 | Yes                            |
| Luminous elements                                           | LED                            |
| Packaging                                                   | Box                            |
| Packaging unit                                              | 1 pcs.                         |
| Degree of protection, front side, according to DIN EN 60529 | IP65                           |

### direct links

- RAFI eCatalog

|                                                            |                                                    |
|------------------------------------------------------------|----------------------------------------------------|
| Degree of protection, rear side, according to DIN EN 60529 | IP65                                               |
| Environment resistance                                     | IEC 60068-2-14<br>IEC 60068-2-30<br>IEC 60068-2-78 |
| Shock resistance according to standard IEC 60068-2-27      | 50 g at 11 ms amplitude semi-sinusoidal            |
| Vibration resistance according to standard IEC 60068-2-6   | 5 g at 10 - 500 Hz                                 |
| Salt-spray resistance according to standard                | IEC 60068-2-11                                     |
| Impact resistance IK                                       | 07                                                 |
| Protection class                                           | II                                                 |
| Minimum order quantity (MOQ)                               | 1 pcs.                                             |
| IO-Link version                                            | Interface and System Specification 1.1.4           |
| communication mode IO-Link                                 | COM2 / 38.4 kBaud                                  |
| cycle time                                                 | 6.2 ms                                             |
| Firmware Update                                            | Yes over IO-Link Master                            |
| Pollution degree acc. to DIN EN 61010-1                    | Pollution degree 2                                 |
| RoHS compliant                                             | Yes                                                |
| REACH compliant                                            | Yes                                                |
| <b>&gt; mounting diameters</b>                             |                                                    |
| Outside dimension, length                                  | 350 mm                                             |
| Outside dimension, width                                   | 40.5 mm                                            |
| Outside dimension, height                                  | 63.8 mm                                            |
| <b>&gt; mechanical data</b>                                |                                                    |
| Fixing                                                     | Screw                                              |
| Tightening torque for screw mounting                       | 2 Nm                                               |
| Terminal on the rear                                       | M12 4-pin A-coded                                  |
| <b>&gt; electrical data</b>                                |                                                    |
| Operating voltage, min.                                    | 19.2 V                                             |
| Operating voltage, max.                                    | 28.8 V                                             |
| Voltage type                                               | DC                                                 |
| Rated operating voltage                                    | 24 V                                               |
| Operating current, max.                                    | 170 mA                                             |

## Use according to UL:

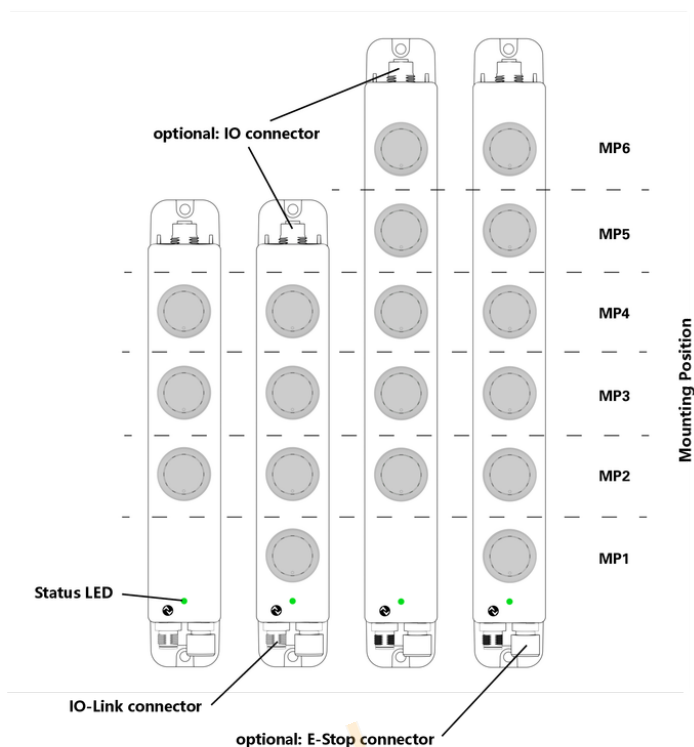
For connecting the device use UL certificated cables of category CYJV or PVVA.

## drawings

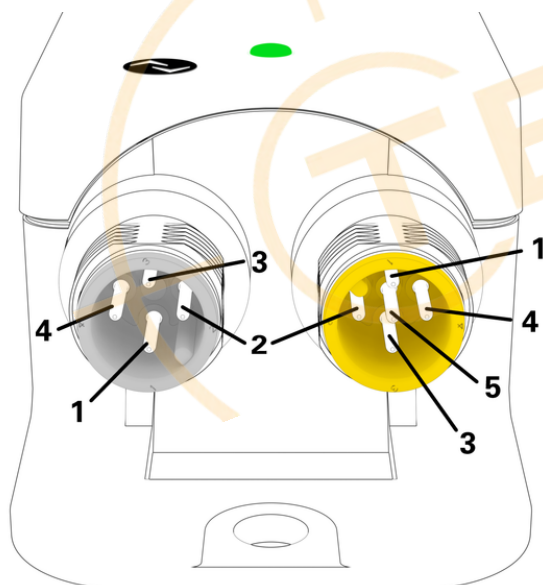
Technical drawing of the side view of the 4000 series LED strip light. The drawing shows a long, narrow profile with four circular LEDs and a control box. Dimensions are indicated as follows:

- 4x45=180 (Total length of the LED segments)
- 45 (Length of each LED segment)
- 107.8 (Distance between mounting holes)
- 338.3 (Total length of the strip)
- 40.5 (Mounting hole diameter)
- 20.2 (Mounting hole offset)
- 350 (Total width of the strip)

## System drawing



## Connection drawing



### IO-Link connector

M12, 4-pole, A-coded

PIN 1: L+ (+24 VCC)  
PIN 2: n.c.  
PIN 3: L- (GND)  
PIN 4: C/Q (IO-Link data)

### E-Stop connector

M12, 5-pole, A-coded

PIN 1: NC - contact 1  
PIN 2: NC - contact 2  
PIN 3: n.c.  
PIN 4: NC - contact 1  
PIN 5: NC - contact 2

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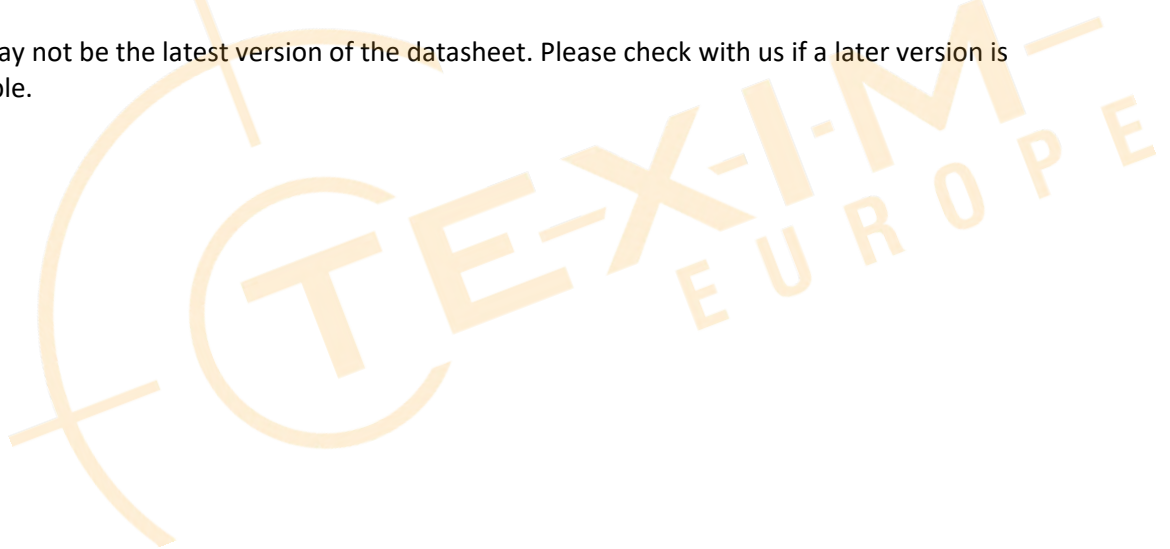
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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

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