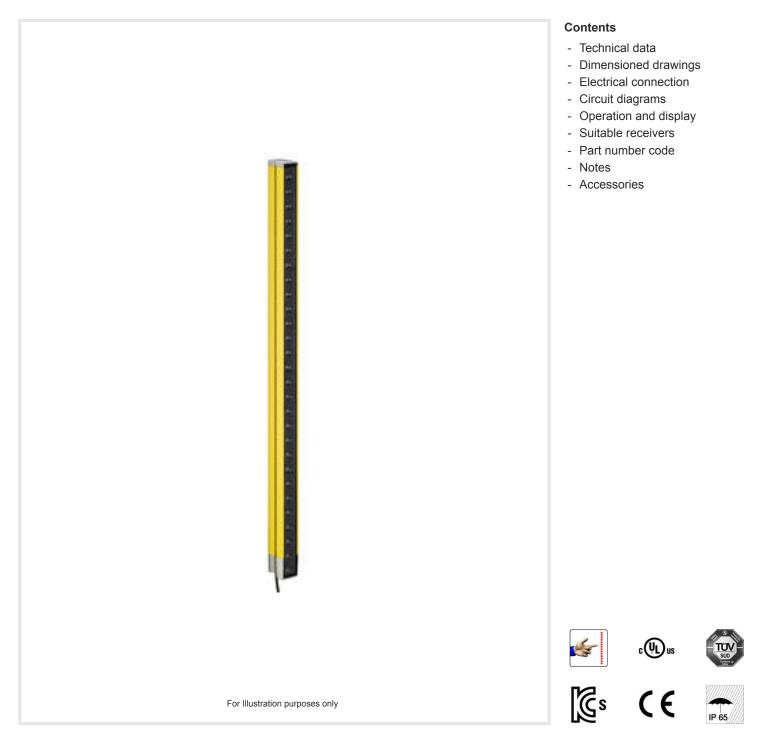


Technical data sheet Safety light curtain transmitter Part no.: 72000103

ELC100T17-300



Leuze electronic GmbH + Co. KG
 The Sensor People
 In der Braike 1, D-73277 Owen/Germany
 Phone: +49 7021 573-0 • Fax: +49 7021 573-199
 eng • 2025-04-08

info@leuze.com • www.leuze.com changes

We reserve the right to make technical

Technical data

Basic data

| Series | ELC100 |
|-------------|-------------------|
| Device type | Transmitter |
| Contains | 2x sliding block |
| Application | Finger protection |

Characteristic parameters

| Туре | |
|-----------------------------|--|
| SIL | |
| SILCL | |
| Mission time T _M | |

| 4, IEC/EN 61496 |
|--------------------------|
| 3, IEC 61508 |
| 3, IEC/EN 62061 |
| 20 years, EN ISO 13849-1 |

Protective field data

| Resolution | 17 mm |
|-------------------------|---------|
| Protective field height | 300 mm |
| Operating range | 0.5 3 m |

Optical data

| Synchronization Optical between transmitter and rece | |
|--|---|
| Light source | LED, Infrared |
| Wavelength | 940 nm |
| Transmitted-signal shape | Pulsed |
| LED risk group | Exempt group (in acc. with EN 62471:2008) |

Electrical data

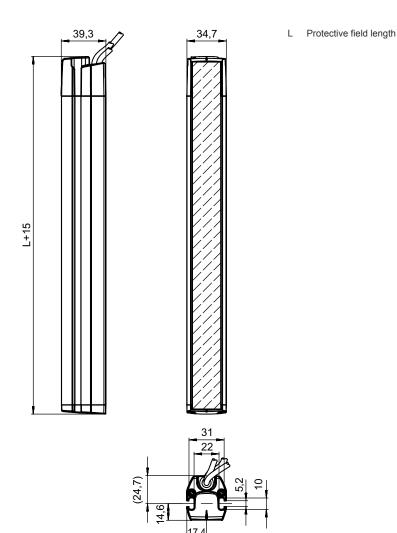
| P | rotective circuit | Overvoltage protection |
|---|--|-------------------------|
| | | Short circuit protected |
| | | |
| | Performance data | |
| | Supply voltage U _B | 24 V, DC, -20 20 % |
| | Current consumption, max. | 50 mA |
| С | onnection | |
| N | umber of connections | 1 Piece(s) |
| | | |
| | Connection 1 | |
| | Function | Machine interface |
| | Type of connection | Cable with connector |
| | Cable length | 300 mm |
| | Sheathing material | PUR |
| | Number of conductors | 4 -wire |
| | Thread size | M12 |
| | Material | Metal |
| | No. of pins | 4 -pin |
| | | |
| | Cable properties | |
| | Permissible conductor cross section, type. | 0.25 mm ² |
| | Length of connection cable, max. | 25 m |
| | Permissible cable resistance to load, max. | 20 Ω |
| | | |

Mechanical data

| Dimension (W x H x L) | 34.7 mm x 315 mm x 39.3 mm |
|------------------------------------|----------------------------|
| Housing material | Metal |
| Metal housing | Aluminum |
| Lens cover material | Plastic / PMMA |
| Material of end caps | Diecast zinc |
| Net weight | 510 g |
| Housing color | Yellow, RAL 1021 |
| Type of fastening | Groove mounting |
| | Mounting brackets |
| Operation and display | |
| Type of display | LED |
| Number of LEDs | 2 Piece(s) |
| | (-) |
| Environmental data | |
| Ambient temperature, operation | 0 50 °C |
| Ambient temperature, storage | -30 70 °C |
| Relative humidity (non-condensing) | 0 95 % |
| Certifications | |
| Degree of protection | IP 65 |
| Protection class | 111 |
| Approvals | c UL US |
| | KCs |
| | TÜV Süd |
| Vibration resistance | 50 m/s² |
| US patents | US 6,418,546 B |
| Classification | |
| Customs tariff number | 85365019 |
| ECLASS 5.1.4 | 27272704 |
| ECLASS 8.0 | 27272704 |
| ECLASS 9.0 | 27272704 |
| ECLASS 10.0 | 27272704 |
| ECLASS 11.0 | 27272704 |
| ECLASS 12.0 | 27272704 |
| ECLASS 13.0 | 27272704 |
| ECLASS 14.0 | 27272704 |
| ECLASS 15.0 | 27272704 |
| ETIM 5.0 | EC002549 |
| ETIM 6.0 | EC002549 |
| ETIM 7.0 | EC002549 |
| ETIM 8.0 | EC002549 |
| ETIM 9.0 | EC002549 |
| ETIM 10.0 | EC002549 |
| | |

Dimensioned drawings

All dimensions in millimeters



Electrical connection

Connection 1

| Machine interface |
|----------------------|
| Cable with connector |
| 300 mm |
| PUR |
| Black |
| 4 -wire |
| 0.2 mm² |
| M12 |
| Male |
| Metal |
| 4 -pin |
| |

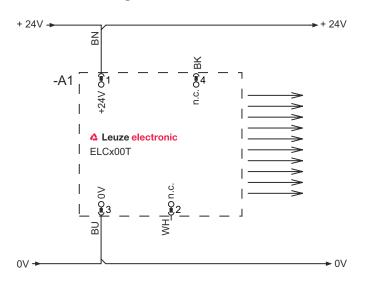


Electrical connection

| Pin | Pin assignment | Conductor color | 2 |
|-----|----------------|-----------------|---|
| 1 | +24 V | Brown | |
| 2 | n.c. | White | |
| 3 | 0 V | Blue | 3 |
| 4 | n.c. | Black | |



Connection diagram transmitter

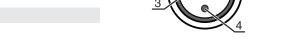


Operation and display

| LED | Display | Meaning | |
|-----|---|---------------------|--|
| 1 | Red, flashing | Error | |
| | Flash sequence 2x ON/OFF (250 ms), followed by a pause (750 ms) | Connection error | |
| | Red, flashing, 10 Hz | Device error | |
| 2 | Off | Device switched off | |
| | On | Device switched on | |

Suitable receivers

| Part no. | Designation | Article | Description |
|--------------|---------------|-------------------------------|--|
| 72001103 | ELC110R17-300 | Safety light curtain receiver | Resolution: 17 mm Protective field height: 300 mm Response time: 5.6 ms Connection: Cable with connector, M12, Metal, 4 -pin, 200 mm, PUR |





Part number code

Part designation: ELC1yyzaa-hhhh



| ELC | Safety light curtain |
|------|---|
| x | 1: ELC100 |
| уу | 00: transmitter 10: receiver – automatic restart |
| Z | Device type T: transmitter R: receiver |
| a | Resolution 17: 17 mm 30: 30 mm |
| hhhh | Protective field height 300 1500: from 300 mm to 1500 mm |
| | Note |

Note Image: Second state Image: Second state<

Notes

| Observe intended use! |
|---|
| The product may only be put into operation by competent persons. Only use the product in accordance with its intended use. |

Accessories

Connection technology - Connection cables

| Part no. | Designation | Article | Description |
|--------------|--------------------|------------------|--|
| 50133860 | KD S-M12-5A-P1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR |

Mounting technology - Other

| Part no. | Designation | Article | Description |
|--------------|-------------|------------------|--|
| 424439 | BT-2P45 | Mounting bracket | Bore hole 1: M6 Bore hole 2: M6 Design of mounting device: Mounting clamp Fastening, at system: Groove mounting Mounting bracket, at device: Groove mounting Type of mounting device: Clampable, Suitable for mounting in UDC-S2, DC- S2 device columns Material: Metal |

Accessories

Leuze

| | Part no. | Designation | Article | Description |
|-----------|----------|-------------|----------------------|--|
| City City | 424432 | BT-2SB05 | Mounting bracket set | Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, On the lateral C-groove Type of mounting device: Swiveling Swivel range: -8 8 ° Material: Metal |

Services

| | Part no. | Designation | Article | Description |
|------------|----------|-------------|-------------------|--|
| \bigcirc | S981050 | CS40-I-140 | Safety inspection | Details: Checking of a safety light barrier application in accordance with current standards and guidelines. Inclusion of the device and machine data in a database, production of a test log per application. Conditions: It must be possible to stop the machine, support provided by customer's employees and access to the machine for Leuze employees must be ensured. |
| | S981046 | CS40-S-140 | Start-up support | Details: For safety devices including stopping time measurement and initial inspection. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. |

| | Note |
|---|---------|
| 6 | ∜s A li |

to A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.