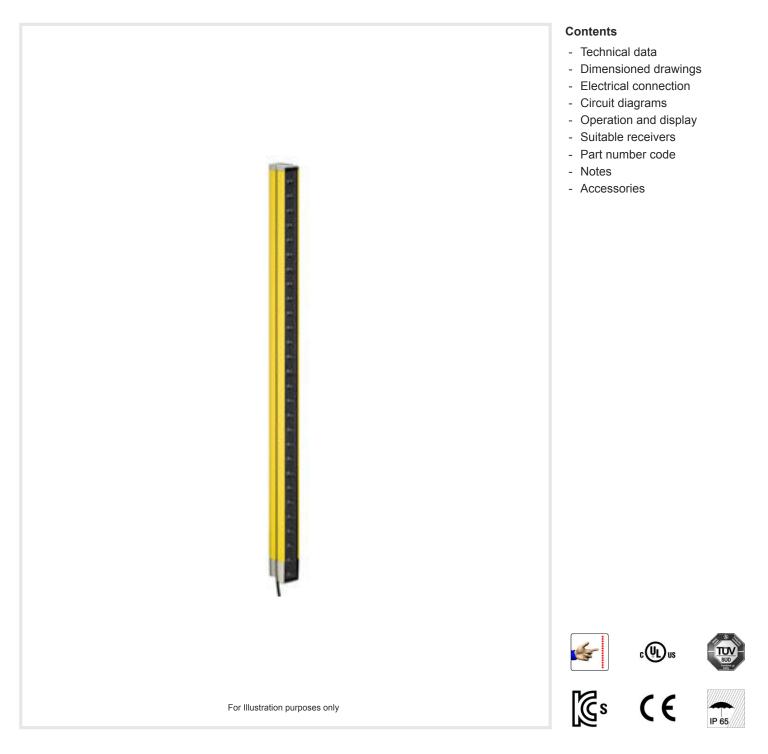


# **Technical data sheet** Safety light curtain transmitter Part no.: 72000106

ELC100T17-600



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 eng • 2025-04-08

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# **Technical data**

#### Basic data

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

#### **Characteristic parameters**

Туре
SIL
SILCL
Mission time T <sub>M</sub>

#### 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	600 mm
Operating range	0.5 3 m

#### **Optical data**

Synchronization	Optical between transmitter and receiver
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 <sub>B</sub>	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 <sup>2</sup>
	Length of connection cable, max.	25 m
	Permissible cable resistance to load, max.	20 Ω

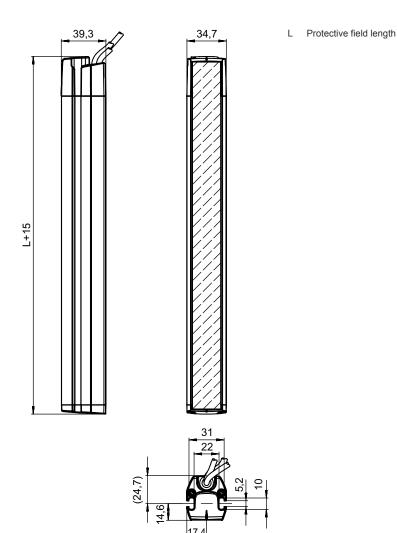
#### Mechanical data

Dimension (W x H x L)	34.7 mm x 615 mm x 39.3 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic / PMMA
Material of end caps	Diecast zinc
Net weight	910 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)
	211666(3)
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	III
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 5.1.4 ECLASS 8.0	27272704
ECLASS 9.0	27272704
ECLASS 9.0 ECLASS 10.0	27272704
ECLASS 11.0 ECLASS 12.0	27272704 27272704
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ECLASS 13.0	
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
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# **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

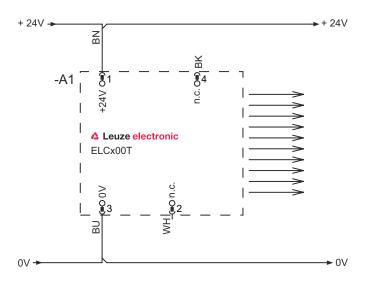


# **Electrical connection**

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

### **Circuit diagrams**

#### Connection diagram transmitter



# **Operation and display**

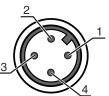
LED	Display	Meaning
1	Red, flashing	Error
	Flash sequence 2x ON/OFF (250 ms), followed by a pause (750 ms)	Connection error
	Red, flashing, 10 Hz	Device error
2	Off	Device switched off
	On	Device switched on

#### Suitable receivers

Part	no. E	Designation	Article	Description
72001	1106 E			Resolution: 17 mm Protective field height: 600 mm Response time: 9.5 ms Connection: Cable with connector, M12, Metal, 4 -pin, 200 mm, PUR

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# 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
а	Resolution 17: 17 mm 30: 30 mm
hhhh	Protective field height 300 … 1500: from 300 mm to 1500 mm
	Note

A list with all available device types can be found on the Leuze website at www.leuze.com.

#### Notes

Observe intended use!
<ul> <li>№ The product may only be put into operation by competent persons.</li> <li>№ Only use the product in accordance with its intended use.</li> </ul>

#### 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

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	Part no.	Designation	Article	Description
inter line	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
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to A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.