

# **Technical data sheet** Safety light curtain transmitter Part no.: 72000309

ELC100T30-900



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We reserve the right to make technical

# **Technical data**

## Basic data

Series	ELC100
Device type	Transmitter
Contains	2x sliding block
Application	Hand 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

6 m

#### Protective field data

Resolution	30 mm
Protective field height	900 mm
Operating range	0.5 6 n

#### **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**

Ρ	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 mm²
	Length of connection cable, max.	25 m
	Permissible cable resistance to load, max.	20 Ω

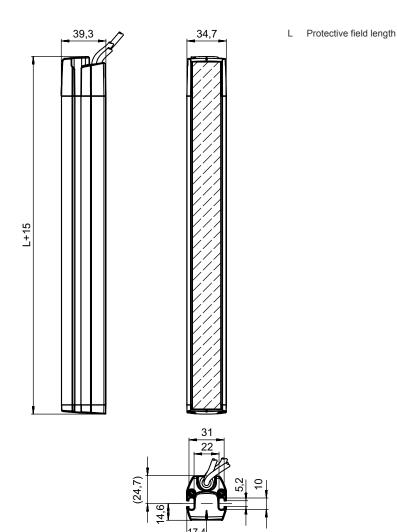
## Mechanical data Dimension (W x H x L)

Dimension (W x H x L)	34.7 mm x 915 mm x 39.3 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic / PMMA
Material of end caps	Diecast zinc
Net weight	1,310 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	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 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

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# **Dimensioned drawings**

All dimensions in millimeters



## **Electrical connection**

**Connection 1** 

Function	Machine interface
Type of connection	Cable with connector
Cable length	300 mm
Sheathing material	PUR
Cable color	Black
Number of conductors	4 -wire
Wire cross section	0.2 mm <sup>2</sup>
Thread size	M12
Туре	Male
Material	Metal
No. of pins	4 -pin

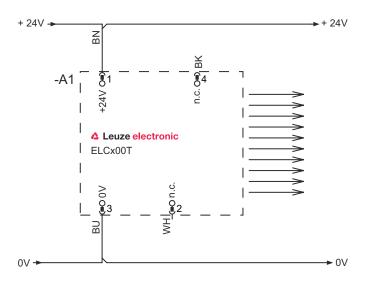


## **Electrical connection**

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



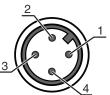
## **Operation and display**

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.	Designation	Article	Description
72001309	ELC110R30-900	Safety light curtain receiver	Resolution: 30mm Protective field height: 900mm Response time: 7.5ms Connection: Cable with connector, M12, Metal, 4 -pin, 200mm, 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
а	Resolution 17: 17 mm 30: 30 mm
hhhh	Protective field height 300 1500: from 300 mm to 1500 mm
1	Note

Note

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## 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
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.

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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.