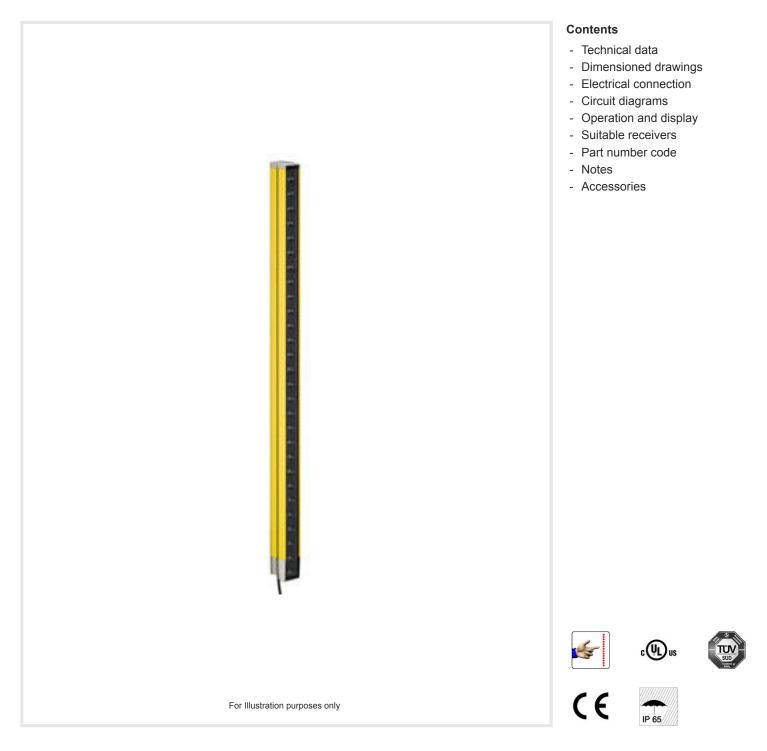


## **Technical data sheet** Safety light curtain transmitter

Part no.: 72000115 ELC100T17-1500



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 eng • 2024-03-11

We reserve the right to make technical

## **Technical data**

#### Basic data

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

4, IEC/EN 61496

3, IEC/EN 62061 20 years, EN ISO 13849-1

3, IEC 61508

#### **Characteristic parameters**

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

#### Protective field data

Resolution	17 mm
Protective field height	1,500 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**

Permissible cable resistance to

load, max.

Protective circuit		Overvoltage protection
		Short circuit protected
	Deufermen es dete	
	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, typ.	0.25 mm <sup>2</sup>
	Length of connection cable, max.	15 m

20 Ω

#### Lens cover material Plastic / PMMA Material of end caps Diecast zinc Net weight 2,110 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 IP 65 Degree of protection **Protection class** III Certifications c UL US TÜV Süd Vibration resistance $50 \text{ m/s}^2$ **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 **ETIM 5.0** EC002549 **ETIM 6.0** EC002549

EC002549

EC002549

EC002549

Mechanical data Dimension (W x H x L)

Housing material

Metal housing

**ETIM 7.0** 

**ETIM 8.0** 

ETIM 9.0



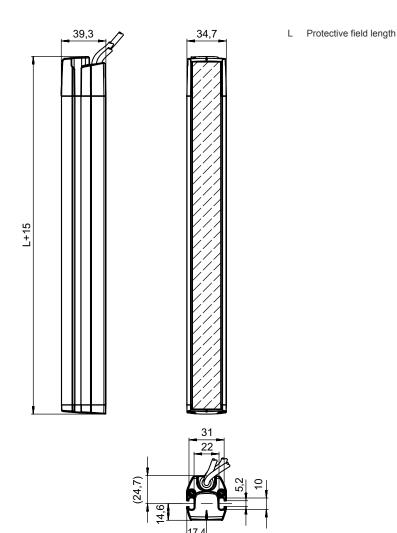
34.7 mm x 1,515 mm x 39.3 mm

Metal

Aluminum

## **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

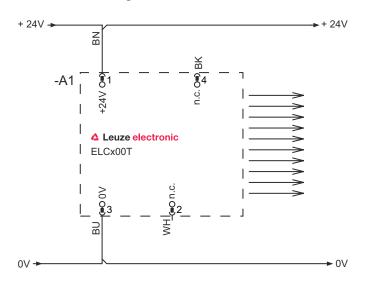


## **Electrical connection**

Pin	Pin assignment	Conductor color	
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

Pa	art no.	Designation	Article	Description
720	001115			Resolution: 17 mm Protective field height: 1.500 mm Response time: 21.2 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!
<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

# Leuze

	Part no.	Designation	Article	Description
and the second s	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.

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