

Technical data sheet Safety light curtain transmitter Part no.: 72000303

ELC100T30-300



The Sensor People In der Braike 1, 73277 Owen

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Technical data

Basic data

Series	ELC100
Device type	Transmitter
Contains	2x sliding block
Application	Hand 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	30 mm
Protective field height	300 mm
Operating range	0.5 6 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

Protective circuit		Overvoltage protection
		Short circuit protected
	Performance data	
	Supply voltage U _B	24 V, DC, -20 20 %
	Current consumption, max.	50 mA
С	onnection	
Number of connections		1 Piece(s)
	Connection 1	
	Function	Machine interface
	Type of connection	Cable with connector
	Cable length	200 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 ²
	Length of connection cable, max.	15 m

20 Ω

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Mechanical data

Dimension (W x H x L)	34.7 mm x 315 mm x 35.4 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 bracket
Operation and display	
Type of display	LED
Number of LEDs	2 Piece(s)
Environmental data	
Ambient temperature exerction	0 55 °C
Ambient temperature, operation	-30 70 °C
Ambient temperature, storage Relative humidity (non-condensing)	- 30 70 °C 0 95 %
Relative numbers (non-condensing)	095 %
Certifications	
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
	TÜV Süd
Vibration resistance	50 m/s²
Shock resistance, continuous shock	15 g, 6 ms IEC 60068-2-27
Shock resistance, single shock	40 m/s ² , 100,000 on each spatial axis
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
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549

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Permissible cable resistance to

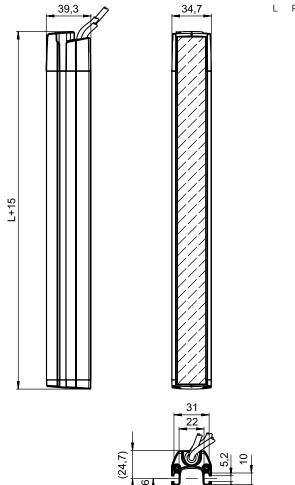
load, max.

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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	200 mm
Sheathing material	PUR
Cable color	Black
Number of conductors	4 -wire
Wire cross section	0.2 mm ²
Thread size	M12
Туре	Male
Material	Metal
No. of pins	4 -pin



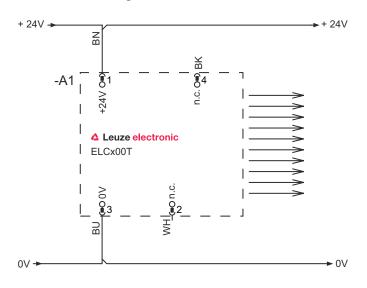
L Protective field length

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

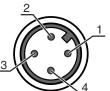
LED	Display	Meaning
1	Red, flashing	Error
	Flash sequence 2x ON/OFF (250 ms), followed by a pause (750 ms)	Connection error
	Red, flashing, 10 Hz	Device error
2	Off	Device switched off
	On	Device switched on

Suitable receivers

 Part no.	Designation	Article	Description
72001303	ELC110R30-300	Safety light curtain receiver	Resolution: 30 mm Protective field height: 300 mm Response time: 4.7 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		
a	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!
 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
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

Accessories

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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. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.
с. С.	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. Restrictions: Max. 2 h., no mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.

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