Technical data sheet
Safety light curtain transmitter
Part no.: 72000306
ELC100T30-600



For Illustration purposes only

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Technical data

Leuze

Basic data

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

Characteristic parameters

Type	4, IEC/EN IEC 61496
SIL	3, IEC 61508
SILCL	3, IEC/EN 62061
Mission time T_M	20 years, EN ISO 13849-1

Protective field data

Resolution	30 mm
Protective field height	600 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

Connection

Number 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)	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)

Environmental data

Ambient temperature, operation	0 ... 50 °C
Ambient temperature, storage	-30 ... 70 °C
Relative humidity (non-condensing)	0 ... 95 %

Certifications

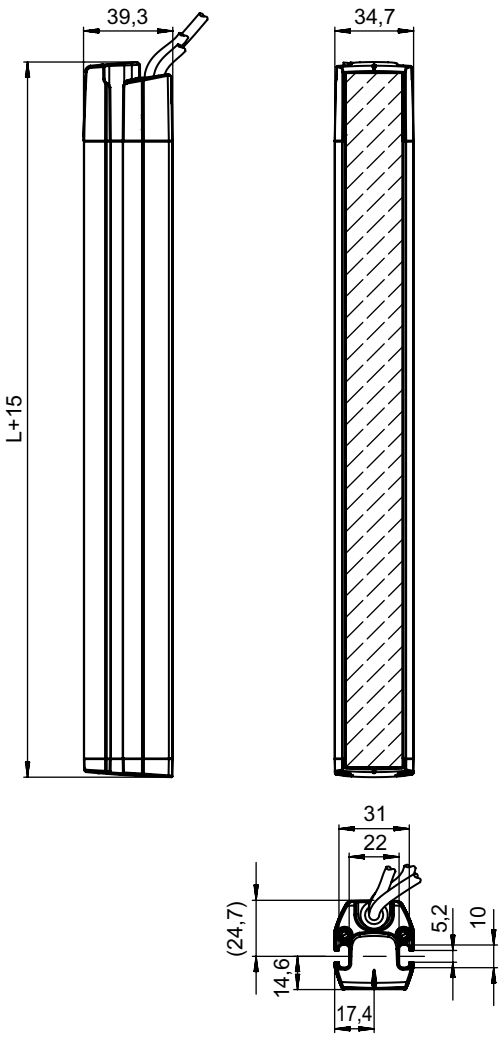
Degree of protection	IP 65
Protection class	III
Approvals	c UL US
	KCs
	TÜV Süd
Vibration resistance	50 m/s²
US patents	US 6,418,546 B

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
ECLASS 16.0	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
UNSPSC 26.08	46171620

Dimensioned drawings

All dimensions in millimeters



L Protective field length

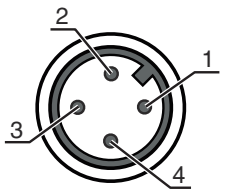
Electrical connection

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 mm²
Thread size	M12
Type	Male
Material	Metal
No. of pins	4 -pin

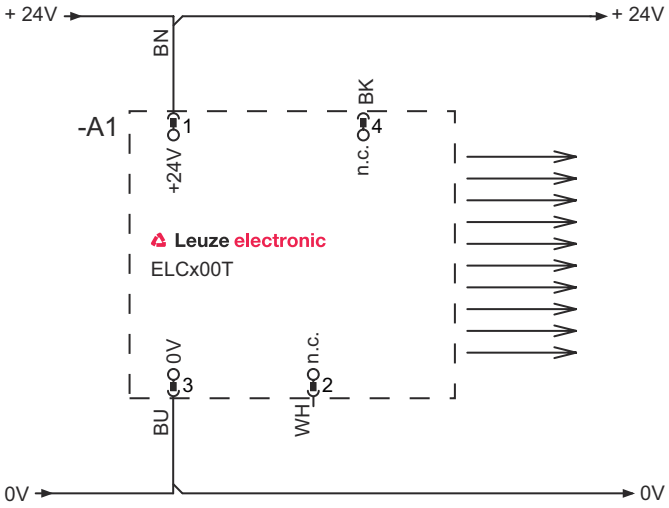
Electrical connection

Pin	Pin assignment	Conductor color
1	+24 V	Brown
2	n.c.	White
3	0 V	Blue
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
	72001306	ELC110R30-600	Safety light curtain receiver	Resolution: 30 mm Protective field height: 600 mm Response time: 5.6 ms Connection: Cable with connector, M12, Metal, 4 -pin, 300 mm, PUR

Part number code

Part designation: **ELC1yyzaa-hhhh**

ELC	Safety light curtain
x	1: ELC100
yy	00: transmitter 10: receiver – automatic restart
z	**Device type** T: transmitter R: receiver
a	**Resolution** 17: 17 mm 30F: 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!

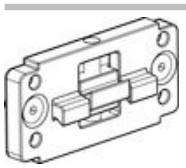
- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50133860	KD S-M12-5A-P1-050	Connection cable	Application: Oil and lubricant resistant 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

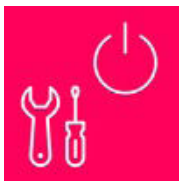
Mounting technology - Other

	Part no.	Designation	Article	Description
	424439	BT-2P45	Mounting bracket	Contains: 2x BT-P45 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

	Part no.	Designation	Article	Description
	424432	BT-2SB05	Mounting bracket set	Contains: 2x BT-SB05 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.

Note

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