

Technical data sheet

Safety sensor/transmitter set

Part no.: 544030
MLC500T20-600-IP



For illustration purposes only

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Technical data

Basic data

Series	MLC 500
Device type	Transmitter
Contains	2x BT-IP swivel mount
Application	Hand protection

Functions

Characteristic parameters

Type	4, IEC/EN 61496
SIL	3, IEC 61508
SILCL	, IEC/EN 62061
Mission time T _M	, EN ISO 13849-1

Protective field data

Resolution	20 mm
Protective field height	600 mm
Operating range	0 ... 4.8 m

Optical data

Synchronization	Optical between transmitter and receiver
Light source	LED
LED risk group	Exempt group (in acc. with EN 62471:2008)

Electrical data

Performance data	
Supply voltage U _B	24 V, DC
Inputs	
Switching inputs	
Type	Digital switching input
Voltage type	DC

Connection

Connection 1	
Type of connection	Cable with connector
Cable length	10,000 mm
Sheathing material	PVC
Thread size	M12
Material	Metal
No. of pins	5 -pin
Cable properties	
Length of connection cable, max.	100 m

Mechanical data

Dimension (Ø x L)	52.5 mm x 800 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic / PMMA
Net weight	750 g

Protective tube

Material	PMMA, clear
Material of end caps	V4A stainless steel (1.4404)
Material of clamping cylinder	PA 6
Material of pressure-equalization membrane	PA 6
Cable gland material	PA 6

Operation and display

Type of display	LED
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Environmental data

Ambient temperature, operation	0 ... 55 °C
Ambient temperature, storage	-30 ... 70 °C

Certifications

Degree of protection	IP 65
	IP 66
	IP 67
	IP 69K
Approvals	c TÜV NRTL US
	c UL US
	TÜV Süd
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

All dimensions in millimeters

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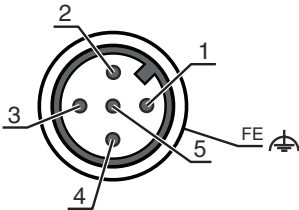
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|---|--------------------------------|------------------|---|
| a | Connection cable | A | Total height incl. mounting brackets = 820 mm |
| b | Mounting brackets for mounting | L | Spacing of drilled holes for mounting brackets = 800 mm |
| c | End caps, stainless steel V4A | H _{PFN} | Effective protective field height = 600 mm |
| d | MLC transmitter | | |
| e | IP protective tube | | |

Electrical connection

Connection 1

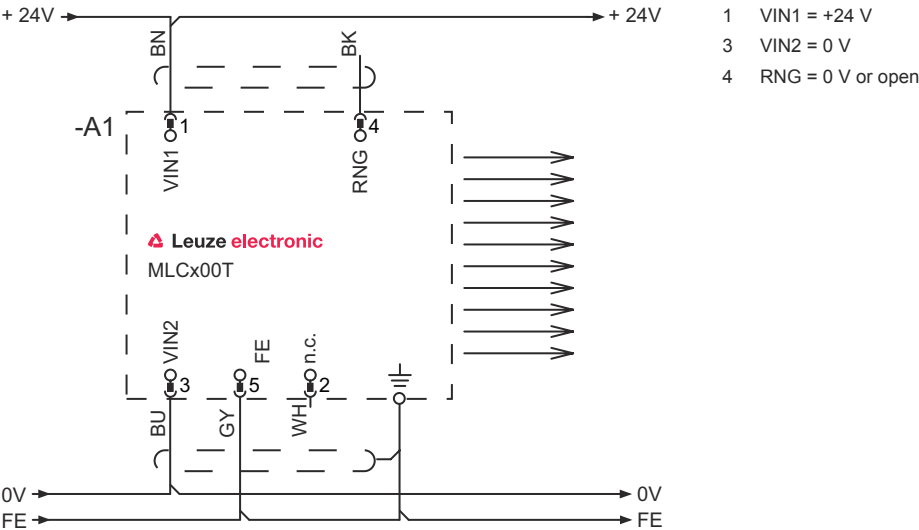
Type of connection	Cable with connector
Cable length	10,000 mm
Sheathing material	PVC
Thread size	M12
Material	Metal
No. of pins	5 -pin
Connector housing	FE/SHIELD

Pin	Pin assignment
1	VIN1
2	n.c.
3	VIN2
4	RNG
5	FE/SHIELD



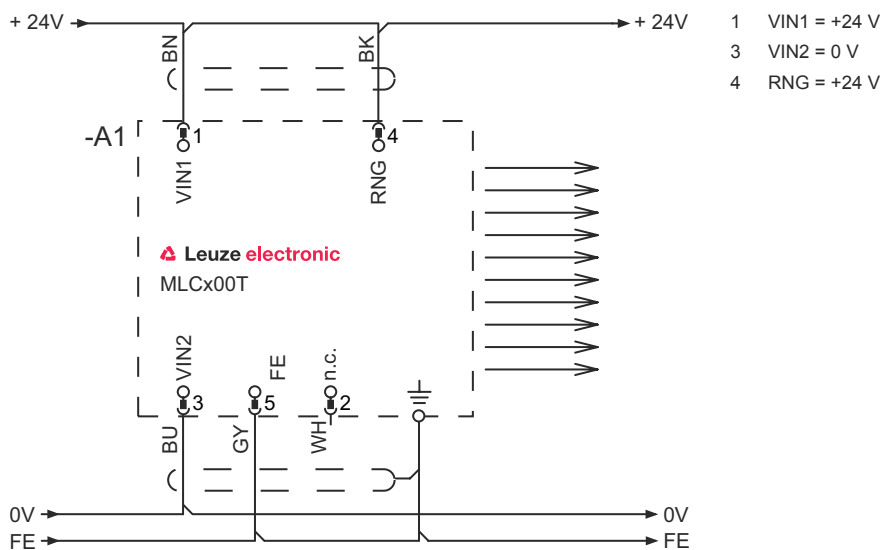
Circuit diagrams

Transmission channel C1, reduced range

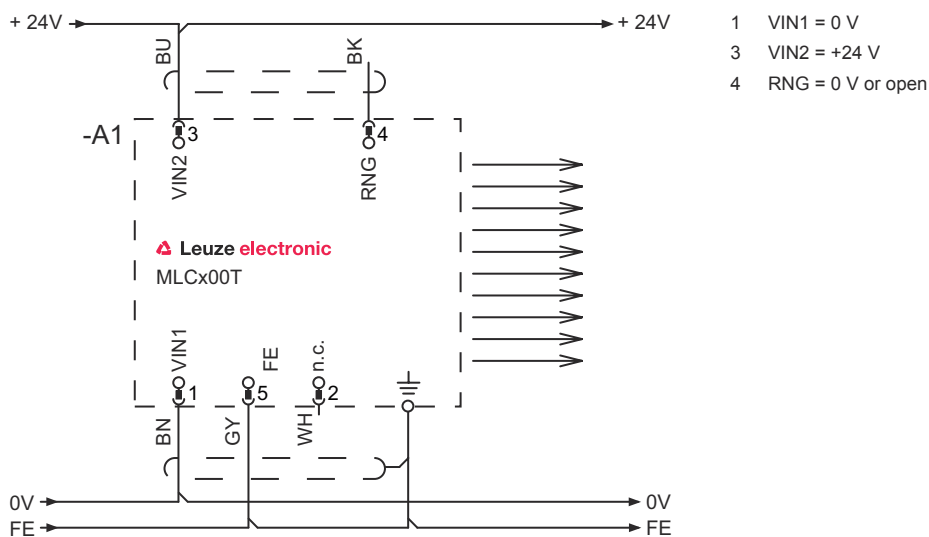


Circuit diagrams

Transmission channel C1, standard range



Transmission channel C2, reduced range



Part number code

MLC	Safety light curtain
z	Device type T: transmitter R: receiver
a	Resolution 14: 14 mm 20: 20 mm 30: 30 mm 40: 40 mm 90: 90 mm
hhhh	Protective field height 150 ... 3000: from 150 mm to 3000 mm
e	Host/Guest (optional) H: Host MG: Middle Guest G: Guest
i	Interface (optional) /A: AS-i
ooo	Option /V: high Vibration-proof EX2: explosion protection (zones 2 + 22) SPG: Smart Process Gating SPG RR: Smart Process Gating – Reduced resolution

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

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.

Accessories

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