



the sensor people





Part no.: 68000324 MLC500T30-2400 Safety light curtain transmitter















Figure can vary

# **Contents**

- Technical data
- Suitable receivers
- Dimensioned drawings
- Electrical connection
- Circuit diagrams
- Operation and display
- · Part number code
- Accessories
- Notes



### **Technical data**

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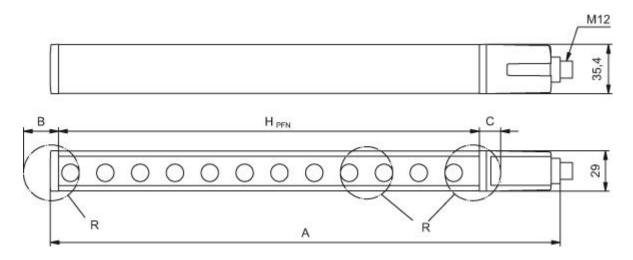
#### Suitable receivers

Part no.	Designation	Article	Description
68001324	MLC510R30-2400	Safety light curtain receiver	Resolution: 30 mm Protective field height: 2,400 mm Response time: 22 ms Connection: Connector, M12, Metal, 5 -pin Function package: Basic
68002324	MLC520R30-2400	Safety light curtain receiver	Resolution: 30 mm Protective field height: 2,400 mm Response time: 22 ms Connection: Connector, M12, Metal, 8 -pin Function package: Standard
68003324	MLC530R30-2400	Safety light curtain receiver	Resolution: 30 mm Protective field height: 2,400 mm Response time: 22 ms Connection: Connector, M12, Metal, 8 -pin Function package: Extended
68009324	MLC530R30-2400-SPG	Safety light curtain receiver	Resolution: 30 mm Protective field height: 2,400 mm Response time: 100 ms Connection: Connector, M12, Metal, 8 -pin Function package: Smart Process Gating

### **Dimensioned drawings**

All dimensions in millimeters

Calculation of the effective protective field height H<sub>PFE</sub> = H<sub>PFN</sub> + B + C



HPFE Effective protective field height = 2428 mm
HPFN Nominal protective field height = 2400 mm

A Total height = 2466 mm

B 19 mm C 9 mm

R Effective protective field height H<sub>PFE</sub> goes beyond the dimensions of the optics area to the outer

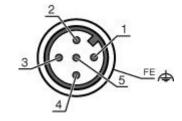
borders of the circles labeled with R.



#### **Electrical connection**

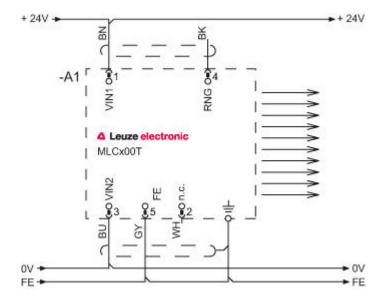
Connection 1	
Type of connection	Connector
Function	Machine interface
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded
Connector housing	FE/SHIELD

Pin	Pin assignment	Conductor color
1	VIN1	Brown
2	n.c.	White
3	VIN2	Blue
4	RNG	Black
5	FE/SHIELD	Gray



### **Circuit diagrams**

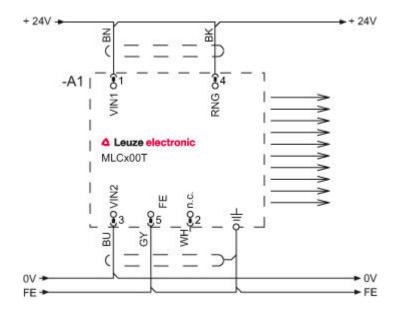
Transmission channel C1, reduced range



- 1 VIN1 = +24 V
- 3 VIN2 = 0 V
- 4 RNG = 0 V or open

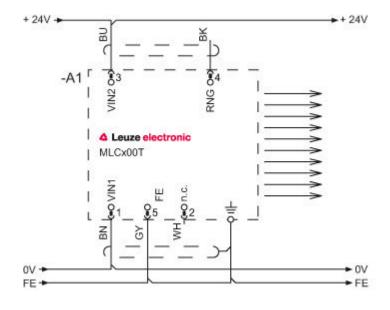


### Transmission channel C1, standard range



- VIN1 = +24 V VIN2 = 0 V
- 3 RNG = +24 V

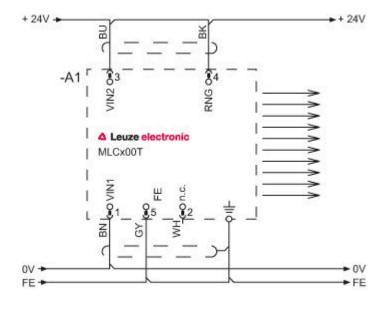
#### Transmission channel C2, reduced range



- VIN1 = 0 V
- 3
- VIN2 = +24 V RNG = 0 V or open



#### Transmission channel C2, standard range



- VIN1 = 0 V
- VIN2 = +24 V RNG = +24 V 3

### Operation and display

#### **LEDs**

LED	Display	Meaning	
1	Off	Device switched off	
	Red, continuous light	Device error	
	Green, continuous light	Normal operation	
2	Green, flashing, 10 s long after switching on	Reduced range selected by the wiring of pin 4	
	Off	Transmission channel C1	
	Green, continuous light	Transmission channel C2	

#### Part number code

Part designation: MLCxyy-za-hhhhei-ooo

MLC	Safety light curtain			
х	Series: 3: MLC 300 5: MLC 500			
уу	Function classes: 00: Transmitter 01: transmitter (AIDA) 02: Transmitter with test input 10: Basic receiver - automatic restart 11: basic receiver - automatic restart (AIDA) 20: Standard receiver - EDM/RES selectable 30: Extended receiver - blanking/muting			
Z	Device type: T: transmitter R: receiver			



MLC	Safety light curtain				
а	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				
е	Host/Guest (optional): H: Host MG: Middle Guest G: Guest				
i	Interface (optional): /A: AS-i				
000	Option: /V: high Vibration-proof EX2: explosion protection (zones 2 + 22) SPG: Smart Process Gating				

Note
A list with all available device types can be found on the Leuze electronic website at www.leuze.com.

#### **Accessories**

### Connection technology - Connection cables

Part no.	Designation	Article	Description
429088	CB- M12-15000-5GF	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 15,000 mm Sheathing material: PUR
429089	CB- M12-25000-5GF	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 25,000 mm Sheathing material: PUR
678058	CB- M12-25000E-5GF	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 25,000 mm Sheathing material: PUR
429281	CB- M12-50000-5GF	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 50,000 mm Sheathing material: PUR
50133860	KD S-M12-5A- P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR



Part no.	Designation	Article	Description
50133861	KD S-M12-5A- P1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR
50137014	KD S-M12-5A- P1-150	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PVC
50137013	KD S-M12-5A- P1-500	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PVC
50133841	KD U-M12-5A- P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
50132534	KD U-M12-5A- P1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR

## Connection technology - Connectors

	Part no.	Designation	Article	Description
· Marie	429175	CB-M12-5GF	Connector	Connection: Connector, M12, Axial, Female, A-coded, 5 -pin

### Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
429056	BT-2L	Mounting bracket set	Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Material: Metal
429057	BT-2Z	Mounting bracket set	Design of mounting device: Angle, Z-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Material: Metal



### Mounting technology - Swivel mounts

Part no.	Designation	Article	Description
429393	BT-2HF	Mounting bracket set	Contains: 2x BT-HF swivel mount, 1 cylinder for mounting on the light curtain Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic
429394	BT-2HF-S	Mounting bracket set	Contains: 2x BT-HF swivel mount, 1 cylinder for mounting on the light curtain Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic Shock absorber: Yes

### Mounting technology - Other

	Part no.	Designation	Article	Description
	425740	BT-10NC60	Sliding block set	Contains: 10x BT-NC sliding block Bore hole 1: Ø 4.7 mm Bore hole 2: M6 Design of mounting device: Sliding block Fastening, at system: Mounting thread Mounting bracket, at device: Groove mounting Material: Metal
	425741	BT-10NC64	Sliding block set	Contains: 10x BT-NC-M4-M6 sliding block Bore hole 1: M4 Bore hole 2: M6 Design of mounting device: Sliding block Fastening, at system: Mounting thread Mounting bracket, at device: Groove mounting Material: Metal
	425742	BT-10NC65	Sliding block set	Contains: 10x BT-NC-M5-M6 sliding block Bore hole 1: M5 Bore hole 2: M6 Design of mounting device: Sliding block Fastening, at system: Mounting thread Mounting bracket, at device: Groove mounting Material: Metal
Wall and	424417	BT-2P40	Mounting bracket set	Contains: 2x BT-P40 clamp bracket Design of mounting device: Mounting clamp Fastening, at system: Groove mounting Mounting bracket, at device: Groove mounting Type of mounting device: Clampable Material: Metal
Ti di	424422	BT-2SB10	Mounting bracket set	Contains: 2x BT-SB10 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
THE PROPERTY OF THE PROPERTY O	424423	BT-2SB10-S	Mounting bracket set	Contains: 2x BT-SB10-S Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, On the lateral C- groove Swivel range: -8 8 ° Material: Metal Shock absorber: Yes



### Alignment aids

	Part no.	Designation	Article	Description
	427300	AC-ALM	Alignment aid	Housing material: Plastic
1	520101	AC-ALM-M	Alignment aid	Housing material: Plastic
	560020	LA-78U	Alignment aid	Light source: laser, Red Housing material: Metal
	520004	LA-78UDC	Alignment aid	Light source: laser, Red Housing material: Metal

### Device columns

Part no.	Designation	Article	Description
549857	UDC-2500-S2	Device column	Dimensions: 160 mm x 2,560 mm x 149 mm Column height without foot: 2,500 mm Functions: Adjustable, 3 directions, Mounting and protection of light curtains and multiple light beam devices
549865	UDC-3100-S2	Device column	Dimensions: 160 mm x 3,160 mm x 149 mm Column height without foot: 3,100 mm Functions: Mounting and protection of light curtains and multiple light beam devices, Adjustable, 3 directions

#### **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.