



the sensor people





Figure can vary

Part no.: 50137058 PRK3CL1.A3/4-200-M8.3 Polarized retro-reflective photoelectric sensor











Contents

- Technical data
- Reflectors & reflective tapes
- Dimensioned drawings
- Electrical connection
- · Operation and display
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Technical data

Basic data		
Series	3C	
Operating principle	Reflection principle	
Орегания ринсиріе	Reflection principle	
0		
Special design	A. da a a Wara att a a	
Special design	Autocollimation	
Optical data		
Operating range	Guaranteed operating range	
Operating range	0 2 m, With reflector MTKS 50x50.1	
Operating range limit	Typical operating range	
Operating range limit	0 3 m, With reflector MTKS 50x50.1	
Beam profile	Collimated	
Light source	Laser, Red	
Laser light wavelength	655 nm	
Laser class	1, IEC/EN 60825-1:2007	
Max. laser power	0.0017 W	
Transmitted-signal shape	Pulsed	
Pulse duration	5.3 µs	
Light-spot size [at sensor distance]	1 mm [3,000 mm]	
Type of light-spot geometry	Round	
Shift angle	Typ. ± 2°	
Electrical data		
Protoctive circuit		
Protective circuit	Short circuit protected Polarity reversal protection	
Performance data		
Performance data	Polarity reversal protection	
Performance data Supply voltage	Polarity reversal protection 10 30 V, DC, Incl. residual ripple	
Performance data Supply voltage Residual ripple	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From U _B	
Performance data Supply voltage Residual ripple Open-circuit current	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From U _B	
Performance data Supply voltage Residual ripple Open-circuit current Outputs	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From U _B 0 15 mA	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From U _B 0 15 mA	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s)	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type Switching current, max. Switching voltage	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s) DC 100 mA High: ≥(UB-2V)	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type Switching current, max.	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s) DC 100 mA High: ≥(UB-2V)	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type Switching current, max. Switching voltage Switching output 1 Assignment	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s) DC 100 mA High: ≥(UB-2V) Low: ≤2V Connection 1, pin 4	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type Switching current, max. Switching voltage Switching output 1 Assignment Switching element	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s) DC 100 mA High: ≥(UB-2V) Low: ≤2V Connection 1, pin 4 Transistor, PNP	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type Switching current, max. Switching voltage Switching output 1 Assignment	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s) DC 100 mA High: ≥(UB-2V) Low: ≤2V Connection 1, pin 4	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type Switching current, max. Switching voltage Switching output 1 Assignment Switching element Switching principle	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s) DC 100 mA High: ≥(UB-2V) Low: ≤2V Connection 1, pin 4 Transistor, PNP	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type Switching current, max. Switching voltage Switching output 1 Assignment Switching element Switching principle	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s) DC 100 mA High: ≥(UB-2V) Low: ≤2V Connection 1, pin 4 Transistor, PNP Light switching	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type Switching current, max. Switching voltage Switching output 1 Assignment Switching element Switching principle Timing Switching frequency	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s) DC 100 mA High: ≥(UB-2V) Low: ≤2V Connection 1, pin 4 Transistor, PNP Light switching	
Performance data Supply voltage Residual ripple Open-circuit current Outputs Number of digital switching outputs Switching outputs Voltage type Switching current, max. Switching voltage Switching output 1 Assignment Switching element Switching principle	Polarity reversal protection 10 30 V, DC, Incl. residual ripple 0 15 %, From UB 0 15 mA 1 Piece(s) DC 100 mA High: ≥(UB-2V) Low: ≤2V Connection 1, pin 4 Transistor, PNP Light switching	

Connection



Connection 1			
Type of connection	Cable with connector		
Function	Signal OUT Voltage supply		
Cable length	200 mm		
Sheathing material	PUR		
Cable color	Black		
Wire cross section	0.2 mm²		
Thread size	M8		
Туре	Male		
Material	Metal		
No. of pins	3 -pin		
Design	Axial		
fechanical data			
esign	Cubic		
imension (W x H x L)	11.4 mm x 34.2 mm x 18.3 mm		
lousing material	Plastic, PC-ABS		
ens cover material	Plastic / PMMA		
let weight	20 g		
lousing color	Red		
ype of fastening	Through-hole mounting Via optional mounting device		
compatibility of materials	ECOLAB		
peration and display			
ype of display	LED		
perational controls	Teach button		
unction of the operational control	Sensitivity adjustment		
invironmental data			
mbient temperature, operation	-40 55 °C		
mbient temperature, storage	-40 70 °C		
Certifications			
egree of protection	IP 67 IP 69K		
rotection class	III		
ertifications	c UL US		
tandards applied	IEC 60947-5-2		
Classification			
Cl@ss 8.0	27270902		
Cl@ss 9.0	27270902		
TIM 5.0	EC002717		

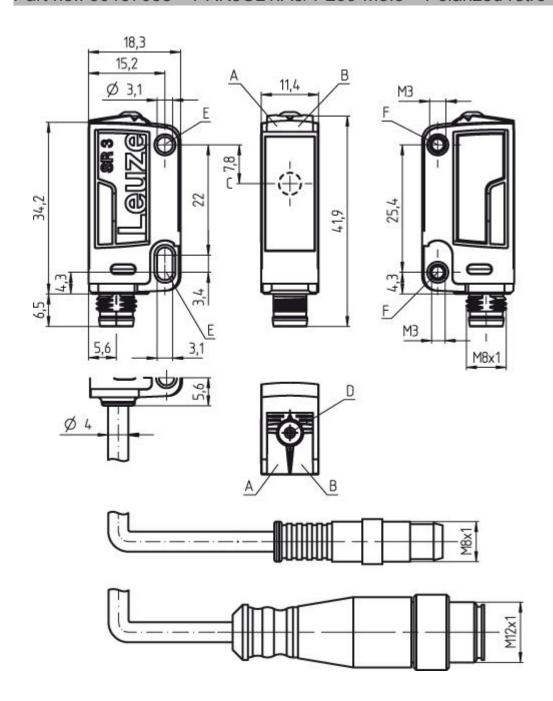


Reflectors & reflective tapes

	Part no.	Designation	Operating range/ Operating range limit	Description
	50040894	MTKS 20x30	0 1.6 m 0 2.2 m	Design: Rectangular Reflective surface: 19 mm x 29 mm Triple reflector size: 1.2 mm Material: Plastic Base material: Plastic Chemical designation of the material: PMMA8N Fastening: Through-hole mounting, Adhesive
	50104130	MTKS 20x40.1	0 1 m 0 1.5 m	Design: Rectangular Reflective surface: 17 mm x 38 mm Triple reflector size: 12 mm Material: Plastic Base material: Plastic Chemical designation of the material: PMMA8N Fastening: Through-hole mounting, Adhesive
2 2	50117583	MTKS 50x50.1	0 2 m 0 3 m	Design: Rectangular Reflective surface: 50 mm x 50 mm Triple reflector size: 1.2 mm Material: Plastic Base material: Plastic Chemical designation of the material: PMMA8N Fastening: Through-hole mounting, Adhesive
	50110192	REF 6-A-50x50	0 1 m 0 1.4 m	Design: Rectangular Reflective surface: 50 mm x 50 mm Triple reflector size: 0.3 mm Material: Plastic Chemical designation of the material: PMMA Fastening: Self-adhesive

Dimensioned drawings

All dimensions in millimeters



Green LED

Yellow LED

Optical axis

Teach button

ABCDEF Mounting sleeve (standard) Threaded sleeve (3C.B series)

Electrical connection

Connection 1	
Type of connection	Cable with connector
Function	Signal OUT Voltage supply
Cable length	200 mm
Sheathing material	PUR



Connection 1	
Cable color	Black
Wire cross section	0.2 mm ²
Thread size	M8
Туре	Male
Material	Metal
No. of pins	3 -pin
Encoding	
Design	Axial

Pin	Pin assignment
1	V+
3	GND
4	OUT 1



Operation and display

LEDs

LED	Display	Meaning
1	Green, continuous light	Operational readiness
2	Yellow, continuous light	Light path free
	Yellow, flashing	Light path free, no function reserve

Part number code

Part designation: AAA 3C d EE-f.GG H/i J-K-L

AAA3C	Operating principle / construction: HT3C: diffuse reflection sensor with background suppression LS3C: throughbeam photoelectric sensor transmitter LE3C: throughbeam photoelectric sensor receiver PRK3C: retro-reflective photoelectric sensor with polarization filter
d	Light type: n/a: red light I: infrared light
EE	Light source: n/a: LED L1: laser class 1 L2: laser class 2
f	Pre-set scanning range (optional): n/a: operating range acc. to data sheet XXXX: pre-set scanning range [mm]
GG	Equipment: n/a: standard A: autocollimation principle (single lens) for positioning tasks B: housing model with two M3 threaded sleeves, brass F: permanently set scanning range L: long light spot S: small light spot T: autocollimation principle (single lens) for highly transparent bottles without tracking TT: autocollimation principle (single lens) for highly transparent bottles with tracking V: V-optics XL: extra long light spot
Н	Operating range adjustment: n/a with HT: scanning range adjustable via 8-turn potentiometer 1: 270° potentiometer 3: teach-in via button 6: auto-teach



İ	Switching output/function OUT 1/IN: Pin 4 or black conductor: 2: NPN transistor output, light switching N: NPN transistor output, dark switching 4: PNP transistor output, light switching P: PNP transistor output, dark switching 6: push-pull switching output, PNP light switching, NPN dark switching G: push-pull switching output, PNP dark switching, NPN light switching L: IO-Link 8: activation input (activation with high signal) X: not connected (n. c.)
J	Switching output / function OUT 2/IN: pin 2 or white conductor: 2: NPN transistor output, light switching N: NPN transistor output, dark switching 4: PNP transistor output, light switching P: PNP transistor output, dark switching 6: push-pull switching output, PNP light switching, NPN dark switching G: push-pull switching output, PNP dark switching, NPN light switching W: warning output X: not connected (n. c.) 8: activation input (activation with high signal) 9: deactivation input (deactivation with high signal) T: teach-in via cable
К	Electrical connection: n/a: cable, PVC, standard length 2000 mm, 4-wire 5000: cable, PVC, standard length 5000 mm, 4-wire M8: M8 connector, 4-pin (plug) M8.3: M8 connector, 3-pin (plug) 200-M8: cable, PVC, length 200 mm with M8 connector, 4-pin, axial (plug) 200-M8.3: cable, PVC, length 200 mm with M8 connector, 3-pin, axial (plug) 200-M12: cable, PVC, length 200 mm with M12 connector, 4-pin, axial (plug)

Accessories

Connection technology - Connection cables

Part no.	Designation	Article	Description
50130842	KD U-M8-3A- P1-020	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
50130844	KD U-M8-3A- P1-050	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
50130845	KD U-M8-3A- P1-100	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR
50130846	KD U-M8-3A- P1-150	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 15,000 mm Sheathing material: PUR
50130847	KD U-M8-3A- P1-200	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 20,000 mm Sheathing material: PUR



	Part no.	Designation	Article	Description
W	50130837	KD U-M8-3A- V1-020	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
W	50130832	KD U-M8-3A- V1-050	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC
V	50130839	KD U-M8-3A- V1-100	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
V	50130840	KD U-M8-3A- V1-150	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 15,000 mm Sheathing material: PVC
V	50130841	KD U-M8-3A- V1-200	Connection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 20,000 mm Sheathing material: PVC
Ų Ď	50130865	KD U-M8-3W- P1-020	Connection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PUR
V	50130867	KD U-M8-3W- P1-050	Connection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
Ų	50130868	KD U-M8-3W- P1-100	Connection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PUR
W	50130860	KD U-M8-3W- V1-020	Connection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
V	50130862	KD U-M8-3W- V1-050	Connection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC



Part no.	Designation	Article	Description
50130863	KD U-M8-3W- V1-100	Connection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
50130864	KD U-M8-3W- V1-200	Connection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Open end Shielded: No Cable length: 20,000 mm Sheathing material: PVC

Connection technology - Interconnection cables

		Part no.	Designation	Article	Description
⊙		50130929	KDS U-M8-3A- M12-3A-P1-010	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 3 -pin Shielded: No Cable length: 1,000 mm Sheathing material: PUR
⊙ □		50130931	KDS U-M8-3A- M12-3A-P1-020	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 3 -pin Shielded: No Cable length: 2,000 mm Sheathing material: PUR
© []		50130932	KDS U-M8-3A- M12-3A-P1-050	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 3 -pin Shielded: No Cable length: 5,000 mm Sheathing material: PUR
	© (III)	50130901	KDS U-M8-3A- M8-3A-P1-003	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 300 mm Sheathing material: PUR
	©	50130902	KDS U-M8-3A- M8-3A-P1-006	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 600 mm Sheathing material: PUR
	②	50130903	KDS U-M8-3A- M8-3A-P1-010	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 1,000 mm Sheathing material: PUR
	⊙	50130905	KDS U-M8-3A- M8-3A-P1-020	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 2,000 mm Sheathing material: PUR



	Part no.	Designation	Article	Description
©	50130907	KDS U-M8-3A- M8-3A-P1-050	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 5,000 mm Sheathing material: PUR
· ·	50130897	KDS U-M8-3A- M8-3A-V1-003	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 300 mm Sheathing material: PVC
O	50130898	KDS U-M8-3A- M8-3A-V1-006	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 600 mm Sheathing material: PVC
©	50130899	KDS U-M8-3A- M8-3A-V1-010	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 1,000 mm Sheathing material: PVC
© (III)	50130900	KDS U-M8-3A- M8-3A-V1-020	Interconnection cable	Connection 1: Connector, M8, Axial, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 2,000 mm Sheathing material: PVC
© —	50130917	KDS U-M8-3W- M8-3A-P1-003	Interconnection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 300 mm Sheathing material: PUR
© 1	50130918	KDS U-M8-3W- M8-3A-P1-006	Interconnection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 600 mm Sheathing material: PUR
0	50130919	KDS U-M8-3W- M8-3A-P1-010	Interconnection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 1,000 mm Sheathing material: PUR
©	50130920	KDS U-M8-3W- M8-3A-P1-020	Interconnection cable	Connection 1: Connector, M8, Angled, Female, 3 -pin Connection 2: Connector, M8, Axial, Male, 3 -pin Shielded: No Cable length: 2,000 mm Sheathing material: PUR



Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
50118542	BT 200M.5	Mounting bracket	Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Adjustable Material: Stainless steel
50124651	BT 205M	Mounting device set	Contains: 10x Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal
50060511	BT 3	Mounting device	Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal
50105585	BT 3.1	Mounting strap set	Contains: 10x Design of mounting device: Retaining clip Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal
50105546	вт зв	Mounting device	Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal

Mounting technology - Rod mounts

Part no.	Designation	Article	Description
50117256	BTU 200M-D10	Mounting system	Contains: 2x M3 x 18 screw, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 10 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
50117255	BTU 200M-D12	Mounting system	Contains: 2x M3 x 18 screw, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
50117254	BTU 200M-D14	Mounting system	Contains: 2x M3 x 18 screw, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 14 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal
50120426	BTU 200M.5-D12	Mounting system	Contains: 2x M3 x 18 screw, 2x M3 mounting nut, 2x position washers Design of mounting device: Mounting system Mounting bracket, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Turning, 360°, Clampable, Adjustable Material: Stainless steel



Micro-triad-type reflectors

Part no.	Designation	Article	Description
50040894	MTKS 20x30	Reflector	Design: Rectangular Reflective surface: 19 mm x 29 mm Triple reflector size: 1.2 mm Material: Plastic Base material: Plastic Chemical designation of the material: PMMA8N Fastening: Through-hole mounting, Adhesive
50104130	MTKS 20x40.1	Reflector	Design: Rectangular Reflective surface: 17 mm x 38 mm Triple reflector size: 12 mm Material: Plastic Base material: Plastic Chemical designation of the material: PMMA8N Fastening: Through-hole mounting, Adhesive
50117583	MTKS 50x50.1	Reflector	Design: Rectangular Reflective surface: 50 mm x 50 mm Triple reflector size: 1.2 mm Material: Plastic Base material: Plastic Chemical designation of the material: PMMA8N Fastening: Through-hole mounting, Adhesive

Reflective tapes for laser and clear-glass applications

Pai	art no.	Designation	Article	Description
5011	10192 F	REF 6-A-50x50		Design: Rectangular Reflective surface: 50 mm x 50 mm Triple reflector size: 0.3 mm Material: Plastic Chemical designation of the material: PMMA Fastening: Self-adhesive

Notes

Observe intended use!

- This product is not a safety sensor and is not intended as personnel protection.
- · The product may only be put into operation by competent persons.
- · Only use the product in accordance with its intended use.

For UL applications:

- For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).
- These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min, in the field installation, or equivalent (categories: CYJV/CYJV7 or PVVA/PVVA7)

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WARNING! LASER RADIATION - LASER CLASS 1

The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of **laser class 1** as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to "Laser Notice No. 50" from June 24, 2007.

- · Observe the applicable statutory and local laser protection regulations.
- The device must not be tampered with and must not be changed in any way. There are no user-serviceable parts inside the device. Repairs must only be performed by Leuze electronic GmbH + Co. KG.
- Light source: Average life expectancy 50,000 h at an ambient temperature of 25 °C
- · Response time: For short decay times, an ohmic load of approx. 5 kOhm is recommended
- Sum of the output currents for both outputs, 50 mA for ambient temperatures > 40 °C