

Technical data sheet

Polarized retro-reflective photoelectric sensor

Part no.: 50105622

PRK 96M/P-1832-41



For illustration purposes only

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- Technical data
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Technical data

Basic data

Series	96
Operating principle	Reflection principle

Optical data

Operating range	0 ... 7 m (guaranteed operating range)
Operating range limit	0 ... 8.5 m (typical operating range)
Light source	LED, Red

Electrical data

Performance data	
Supply voltage U_B	10 ... 30 V, DC
Residual ripple	0 ... 15 %, From U_B
Open-circuit current	0 ... 50 mA
Outputs	
Number of digital switching outputs	2 Piece(s)

Switching outputs

Type	Digital switching output
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Switching output 1

Switching element	Transistor, PNP
Switching principle	Light switching

Switching output 2

Switching element	Transistor, PNP
Switching principle	Dark switching

Time behavior

Switching frequency	1,000 Hz
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Connection

Number of connections	1 Piece(s)
Connection 1	
Type of connection	Connector
Thread size	M12
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Mechanical data

Dimension (W x H x L)	30 mm x 90 mm x 70 mm
Housing material	Metal
Metal housing	Zinc
Lens cover material	Glass
Net weight	380 g
Compatibility of materials	ECOLAB
Note	Housing part used contains perfluorobutanesulfonic acid (PFBS)

Operation and display

Type of display	LED
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Environmental data

Ambient temperature, operation	-40 ... 55 °C
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Certifications

Degree of protection	IP 67
Protection class	II
Approvals	c UL US
Standards applied	IEC 60947-5-2

Classification

Customs tariff number	85365019
ECLASS 5.1.4	27270902
ECLASS 8.0	27270902
ECLASS 9.0	27270902
ECLASS 10.0	27270902
ECLASS 11.0	27270902
ECLASS 12.0	27270902
ECLASS 13.0	27270902
ECLASS 14.0	27270902
ECLASS 15.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
ETIM 8.0	EC002717
ETIM 9.0	EC002717
ETIM 10.0	EC002717

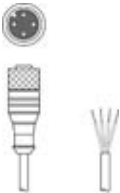
Electrical connection

Connection 1

Type of connection	Connector
Thread size	M12
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50130652	KD U-M12-4A-V1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
	50130690	KD U-M12-4W-V1-050	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
	50025570	BT 96	Mounting device	Design of mounting device: Angle, L-shape Fastening, 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
	50104897	BT 450.3-96	Mounting device	Design of mounting device: Mounting system Fastening, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Turning, 360°, Adjustable Material: Metal

Note



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