

1) Optical axis



Basic features

Application	Object detection
Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	M06M
Style	Cylinder, straight optics

Display/Operation

Display	Output function - LED red Limit range - LED red, flashing
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Electrical connection

Cable diameter D	2.5 mm
Cable length L	2 m
Conductor cross-section	0.10 mm ²
Connection	Cable, Ø 2.5 mm, 3-pin, 2 m, PUR
Electrical version	3-wire
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

No-load current I_o max. at U_e	15 mA
Operating voltage U_b	10...30 VDC
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Switching frequency	500 Hz
Turn-off delay t_{off} max.	1.0 ms
Turn-on delay t_{on} max.	1.0 ms
Voltage drop U_d max. at I_e	2.5 V

Environmental conditions

Ambient temperature	-10...55 °C
IP rating	IP65

Interface

Switching output	PNP normally open (NO)
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Material

Housing material	Brass, nickel-plated
Housing material, surface protection	nickel-plated
Material jacket	PUR
Material sensing surface	PMMA

Mechanical data

Dimension	Ø 6 x 45 mm
Mounting part	Nut M6x0.5

Photoelectric Sensors
BOS M06M-PS-ID10-PU-02
Order Code: BOS01W6

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Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
LED group per IEC 62471	Exempt Group
Light type	LED infrared
Principle of optical operation	Diffuse sensor, energetic

Switching function, optical

Light-on

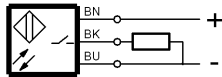
Range/Distance

Range	0...50 mm
Rated operating distance S_n	50 mm

Remarks

Reference object (target): gray card, 100 x 100, 90 % remission, axial approach.

Wiring Diagrams



Opto Symbols

