

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	G05E
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	1.4301 stainless steel
Material jacket	PUR
Material sensing surface	PMMA

Mechanical data

Dimension	Ø 5 x 45 mm
Mounting part	Diameter 5.0 mm

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

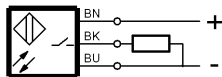
Range/Distance

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

Remarks

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

Wiring Diagrams



Opto Symbols

