

1: pushbutton



Product characteristics
Diffuse reflection sensor

Threaded type

M18 x 1

Quick disconnect

Function check output

Optimised for short ranges, visible laser light, protection class 2 laser

gold-plated contacts

Range 150mm (Range referred to white paper 200 x 200 mm, 90 % remission)

adjustable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...30 DC

Current consumption [mA]

< 30 *)

Type of light

red light 675 nm

Life expectancy typ. [h]

50000

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

light-on / dark-on programmable

Voltage drop

- Switching output [V]

< 2.5

- Function check output [V]

< 3.5

Current rating

- Switching output [mA]

200

- Function check output [mA]

10

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

500

Monitoring range

Range [mm]

150 (Range referred to white paper 200 x 200 mm, 90 % remission)

Smallest detectable object [mm]

**)

Light spot diameter [mm]

0.1 (Range 50 mm)

Environment

Ambient temperature [°C]

-10...50

Protection

IP 67

Tests / approvals

EMC

EN 60947-5-2

EN 55011:

class B

Mechanical data

Housing materials

stainless steel 316L / 1.4404; PBT

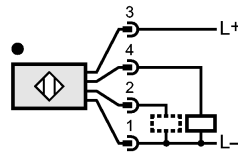
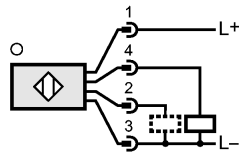
Lens material

PMMA

OG5092 - Diffuse reflection sensor - eclass: 27270903 / 27-27-09-03

Weight	[kg]	0.074
Displays / operating elements		
Output status indication	LED	yellow
Power	LED	green
Function display	LED	red
Electrical connection		
Connection		M12 connector; gold-plated contacts

Wiring



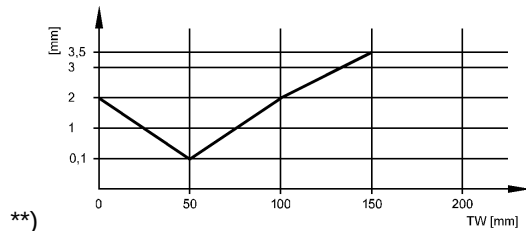
2: function check

Accessories		
Accessories (included)		2 lock nuts

Remarks

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Caution: Laser Light
 Power ≤ 2.2 mW wavelength = 675 nm
 Frequency = 2.2 kHz pulse length = 24 μ s
 Do not stare into beam
 Avoid exposure to the laser light
 Class 2 laser product
 EN60825-1 July 1994
 *) Operating; < 50 mA setting mode



Pack quantity	[piece]	1
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