

1: pushbutton



**Product characteristics**

Diffuse reflection sensor
Threaded type
M18 x 1
Cable
Range 1...600mm (Range referred to white paper 200 x 200 mm, 90 % remission)

**Electrical data**

Electrical design	AC/DC
Operating voltage [V]	20...250 AC/DC (47...63 Hz AC)
Type of light	Infrared light 880 nm
Protection class	II
Reverse polarity protection	no

**Outputs**

Output function	light-on mode
Voltage drop [V]	< 8
Minimum load current [mA]	5
Leakage current [mA]	< 1.7

<b>Current rating</b>	
- Current rating (continuous) [mA]	90; 180 (...40 °C)
- Current rating (peak) [mA]	î: 0.6 A (20 ms / 0.5 Hz)
Short-circuit proof	no
Overload protection	no
Switching frequency [Hz]	25

**Monitoring range**

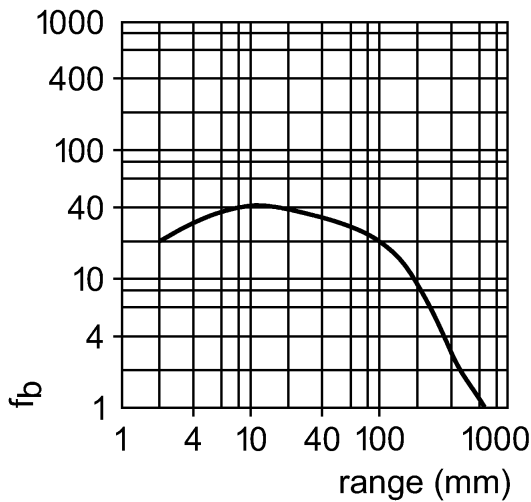
Range [mm]	1...600 (Range referred to white paper 200 x 200 mm, 90 % remission)
Light spot diameter [mm]	< 169 ( at maximum range )

**Excess gain graphs**

**OG0034**

OGT-HBOA

Photoelectric sensors



**Environment**

Ambient temperature	[°C]	-25...80
Protection		IP 67

**Tests / approvals**

EMC		EN 60947-5-2 EN 55011:	class B
MTTF	[Years]		338

**Mechanical data**

Housing materials		PBT
Lens material		PMMA
Weight	[kg]	0.139

**Displays / operating elements**

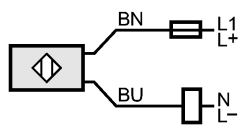
Output status indication	LED	red (permanently lit)
Function display	LED	red (flashing)

**Electrical connection**

Connection		PVC cable / 2 m; 2 x 0.5 mm <sup>2</sup>
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**Wiring**

Core colors  
 BN brown  
 BU blue



Note: miniature fuse to IEC60127-2 sheet 1, ≤ 2 A (fast acting)

**Accessories**

Accessories (included)		2 lock nuts
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**Remarks**

Remarks		Recommendation: check the unit for reliable function after a short circuit.
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Pack quantity	[piece]	1
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