

1: potentiometer



Product characteristics

Retro-reflective sensor

Threaded type

M12 x 1

Quick disconnect

Function check output

Sensing range 0.05...2m (Prismatic reflector Ø 80 (E20005))

adjustable

Electrical data

Electrical design

DC NPN

Operating voltage [V]

10...36 DC

Current consumption [mA]

< 35

Type of light

Infrared light 880 nm

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]

320

Monitoring range

Sensing range [m]

0.05...2 (Prismatic reflector Ø 80 (E20005))

Range referred to prismatic reflector[m]

Ø 80 0.05...2

Ø 35 0.05...1.5

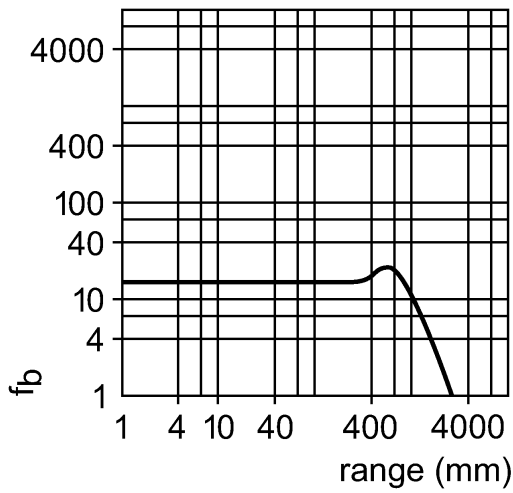
Ø 20 0.05...1.2

Light spot diameter [mm]

140 ( at maximum range )

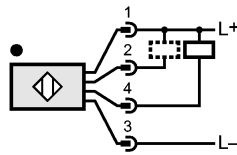
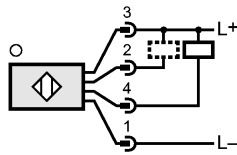
**Excess gain graphs**

**OF5051 - Retro-reflective sensor - eclass: 27270902 / 27-27-09-02**



Environment		
Ambient temperature	[°C]	-25...60
Protection		IP 65
Tests / approvals		
EMC		EN 60947-5-2 EN 55011: class B
MTTF	[Years]	601
Mechanical data		
Housing materials		brass nickel-plated
Lens material		PMMA
Weight	[kg]	0.048
Displays / operating elements		
Output status indication	LED	yellow
Power	LED	green
Function display	LED	red
Electrical connection		
Connection		M12 connector

**Wiring**



2: function check

Accessories		
Accessories (included)		2 lock nuts; screwdriver
Remarks		
Pack quantity	[piece]	1