

Receiver in lower lens, Transmitter in upper lens



Product characteristics

Retro-reflective sensor

Rectangular, plastics

Quick disconnect

Polarization filter

Sensing range 13.5m (Prismatic reflector Ø 80 (E20005))

Electrical data

Electrical design

DC PNP/NPN

Operating voltage [V]

10...30 DC

Current consumption [mA]

< 80

Type of light

red light 660 nm

Life expectancy typ. [h]

100000 (25 °C)

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

light-on / dark-on programmable

Voltage drop

- Switching output [V]

< 2

- Function check output [V]

< 2

Current rating

- Switching output [mA]

100

- Function check output [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

500

Monitoring range

Sensing range [m]

13.5 (Prismatic reflector Ø 80 (E20005))

Reaction times

Response time [ms]

< 1

Environment

Ambient temperature [°C]

-25...40

Protection

IP 67

Tests / approvals

EMC

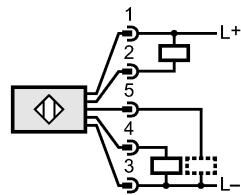
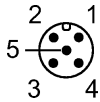
IEC 1000-4-2/3/4/5/6

Mechanical data

OM5003 - Retro-reflective sensor - eclass: 27270902 / 27-27-09-02

Housing materials	ABS (glass fiber reinforced); connector housing: aluminum transparent anodized
Lens material	PMMA
Weight [kg]	0.196
Displays / operating elements	
Output status indication LED	yellow
Power LED	green
Function display LED	red
Electrical connection	
Connection	M12 connector

Wiring



5: function check

Remarks

Pack quantity [piece] 1