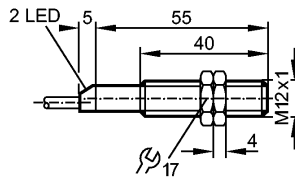




OFR-FNKG

Photoelectric sensors



Product characteristics

Retro-reflective sensor

Threaded type

M12 x 1

Cable

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

Electrical data

Electrical design

DC NPN

Operating voltage [V]

10...36 DC

Current consumption [mA]

< 30

Type of light

Infrared light 880 nm

Protection class

II

Reverse polarity protection

yes

Outputs

Output function

light-on / dark-on programmable

Voltage drop [V]

< 2.5

Current rating [mA]

200

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))

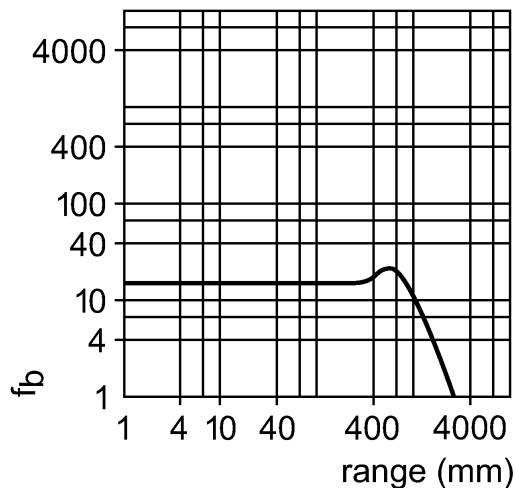
Range referred to prismatic reflector[m]

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



Environment

Ambient temperature [°C]

-25...60

OF5050 - Retro-reflective sensor - eclass: 27270902 / 27-27-09-02

Protection	IP 67
Tests / approvals	
EMC	EN 60947-5-2 EN 55011: class B
MTTF [Years]	903
Mechanical data	
Housing materials	brass nickel-plated
Lens material	PMMA
Weight [kg]	0.093
Displays / operating elements	
Output status indication LED	yellow
Power LED	green
Electrical connection	
Connection	PUR cable / 2 m; 3 x 0.34 mm ²

Wiring

Core colors

BN brown

BU blue

BK black



Accessories

Accessories (included)	2 lock nuts
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Remarks

Pack quantity [piece]	1
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