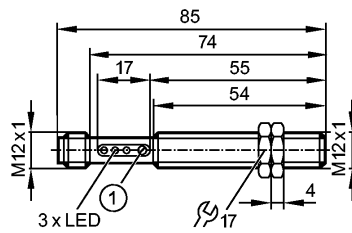


OF5025

OFP-FPKG/US-100

Photoelectric sensors



1: potentiometer



Product characteristics

Retro-reflective sensor
Threaded type
M12 x 1
Quick disconnect
Polarization filter
Function check output
Sensing range 0.2...0.8m (Prismatic reflector Ø 80 (E20005))
adjustable

Electrical data

Electrical design	DC PNP
Operating voltage [V]	10...36 DC
Current consumption [mA]	< 35
Type of light	red light 660 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

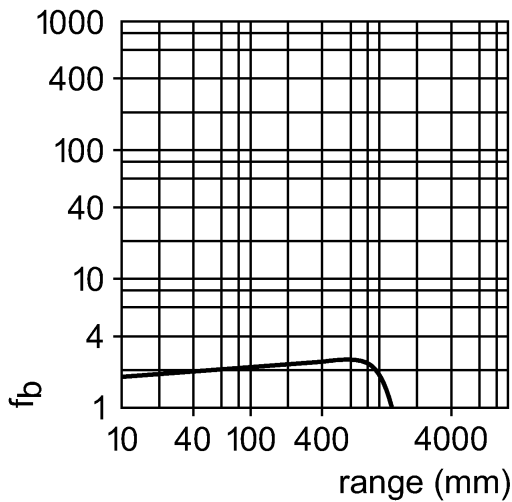
Sensing range [m]	0.2...0.8 (Prismatic reflector Ø 80 (E20005))						
Range referred to prismatic reflector [m]	<table border="0"> <tr><td>Ø 80</td><td>0.2...0.8</td></tr> <tr><td>Ø 35</td><td>0.2...0.5</td></tr> <tr><td>Ø 20</td><td>-</td></tr> </table>	Ø 80	0.2...0.8	Ø 35	0.2...0.5	Ø 20	-
Ø 80	0.2...0.8						
Ø 35	0.2...0.5						
Ø 20	-						
Light spot diameter [mm]	70 (at maximum range)						

Excess gain graphs

OF5025

OFP-FPKG/US-100

Photoelectric sensors



Environment

Ambient temperature	[°C]	-25...60
Protection		IP 65

Tests / approvals

EMC		EN 60947-5-2 EN 55011:	class B
MTTF	[Years]		615

Mechanical data

Housing materials		brass Optalloy-plated
Lens material		PMMA
Weight	[kg]	0.047

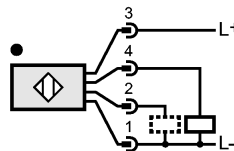
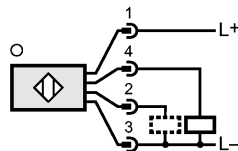
Displays / operating elements

Output status indication	LED	yellow
Power	LED	green
Function display	LED	red

Electrical connection

Connection		M12 connector
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Wiring



2: function check

Accessories

Accessories (included)		2 lock nuts; screwdriver
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Remarks

Pack quantity	[piece]	1
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