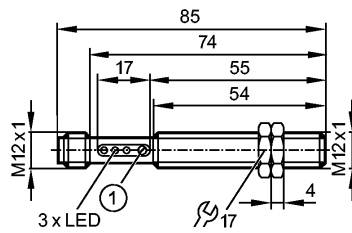


**OF5016**

OFR-FPKG/US-100

Photoelectric sensors



1: potentiometer

Made in Germany



**Product characteristics**

Retro-reflective sensor
Threaded type
M12 x 1
Connector
Function check output
Sensing range 0.05...2m (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	Infrared light 880 nm
Protection class	II
Reverse polarity protection	yes

**Outputs**

Output function	light-on / dark-on programmable
<b>Voltage drop</b>	
- Switching output [V]	< 2.5
- Function check output [V]	< 3.5
<b>Current rating</b>	
- Switching output [mA]	200
- Function check output [mA]	10
Short-circuit protection	pulsed
Overload protection	yes
Switching frequency [Hz]	320

**Range**

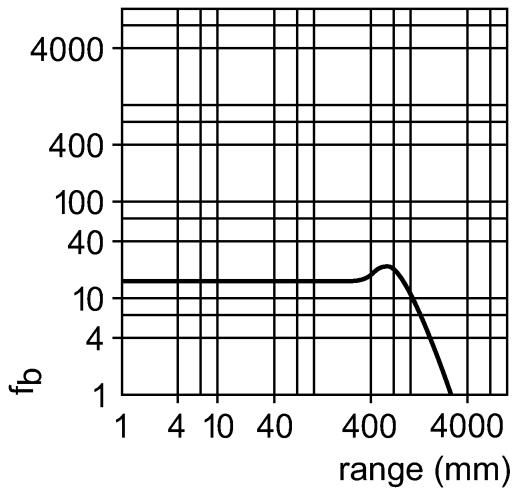
Sensing range [m]	0.05...2 (Prismatic reflector Ø 80 (E20005))
Range referred to prismatic reflector [m]	Ø 80 0.05...2 Ø 35 0.05...1.5 Ø 20 0.05...1.2
Light spot diameter [mm]	140 ( at maximum range )

**Excess gain graphs**

## OF5016

OFR-FPKG/US-100

Photoelectric sensors



### Environment

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

### Tests / approvals

EMC		EN 60947-5-2
MTTF	[Years]	607

### Mechanical data

Housing materials		Brass nickel-plated
Lens material		PMMA
Weight	[kg]	0.047

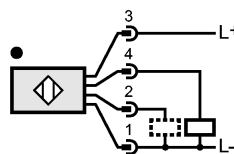
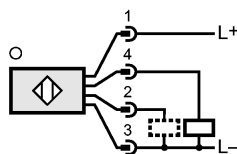
### Displays / operating elements

Output status indication	LED	yellow
Operation	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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