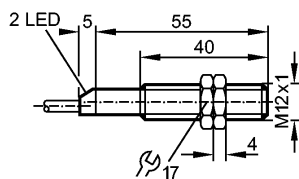


**OF5024**

OFP-FPKG

Photoelectric sensors



Made in Germany

**Product characteristics**

Retro-reflective sensor

Threaded type

M12 x 1

Cable

Polarisation filter

Sensing range 0.2...0.8m (Prismatic reflector Ø 80 (E20005))

**Electrical data**

|                             |                  |
|-----------------------------|------------------|
| Electrical design           | DC PNP           |
| Operating voltage [V]       | 10...36 DC       |
| Current consumption [mA]    | < 30             |
| Type of light               | red light 660 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 | pulsed                          |
| Overload protection      | yes                             |
| Switching frequency [Hz] | 320                             |

**Range**

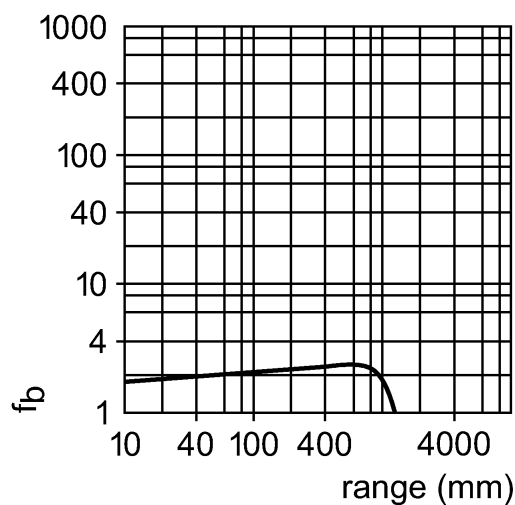
|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Sensing range [m]                         | 0.2...0.8 (Prismatic reflector Ø 80 (E20005)) |
| Range referred to prismatic reflector [m] | Ø 80 0.2...0.8<br>Ø 35 0.2...0.5<br>Ø 20 -    |
| Light spot diameter [mm]                  | 70 ( at maximum range )                       |

**Excess gain graphs**

**OF5024**

OFP-FPKG

Photoelectric sensors


**Environment**

Ambient temperature [°C] -25...60

Protection IP 67

**Tests / approvals**

 EMC EN 60947-5-2  
EN 55011: class B

MTTF [Years] 895

**Mechanical data**

Housing materials brass nickel-plated

Lens material PMMA

Weight [kg] 0.094

**Displays / operating elements**

Output status indication LED yellow

Operation LED green

**Electrical connection**

Connection PUR cable / 2 m; 3 x 0.34 mm²

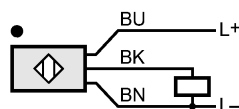
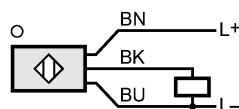
**Wiring**

Core colours

BN brown

BU blue

BK black


**Accessories**

Accessories (included) 2 lock nuts

**Remarks**

Pack quantity [piece] 1