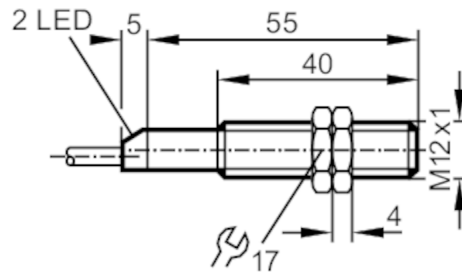




Retro-reflective sensor

OFP-FPKG



Product characteristics

Type of light	red light
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 60

Application

Special feature	polarisation filter
Function principle	Retro-reflective sensor

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 30
Protection class	II
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	660

Outputs

Electrical design	PNP
Output function	light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	320
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Range referred to prismatic reflector [m]	0.2...0.8; (Prismatic reflector Ø 80 E20005)
Max. light spot diameter [mm]	70
Light spot dimensions refer to	at maximum range
Polarisation filter available	yes

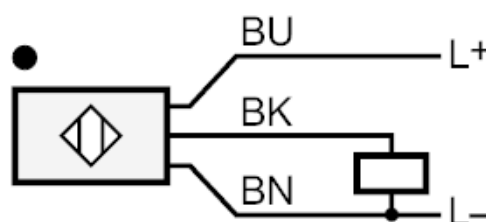
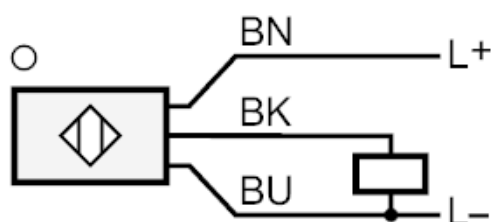
OF5024



Retro-reflective sensor

OFP-FPKG

Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	895
Mechanical data		
Weight	[g]	73.3
Housing		threaded type
Dimensions	[mm]	M12 x 1 / L = 60
Thread designation		M12 x 1
Materials		brass nickel-plated
Lens material		PMMA
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
Accessories		
Accessories (supplied)		lock nuts: 2 x
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Cable: 2 m, PUR; 3 x 0.34 mm ²		
Connection		



Core colours :

- BN = brown
- BU = blue
- BK = black

OF5024



Retro-reflective sensor

OFP-FPKG

Diagrams and graphs

excess gain graph

