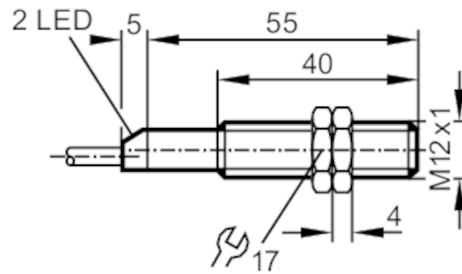


# OF5050



## Retro-reflective sensor

OFR-FNKG



### Product characteristics

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

### Application

Function principle	Retro-reflective sensor
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### Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 30
Protection class	II
Reverse polarity protection	yes
Type of light	infrared light
Wave length [nm]	880

### Outputs

Electrical design	NPN
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]	0.05...2; (Prismatic reflector Ø 80 E20005)
Max. light spot diameter [mm]	140
Light spot dimensions refer to	at maximum range

### Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 67

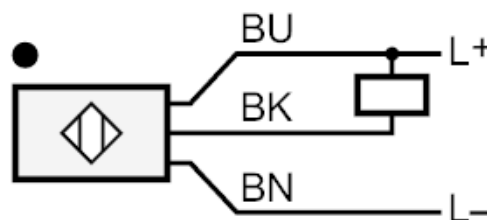
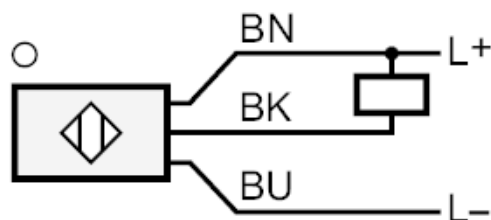
# OF5050



## Retro-reflective sensor

OFR-FNKG

Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF [years]		903
Mechanical data		
Weight [g]		73
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 <sup>2</sup>		
Connection		



Core colours :

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

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## Retro-reflective sensor

OFR-FNKG

### Diagrams and graphs

excess gain graph

