



Retro-reflective sensor

OFR-FNKG



Product characteristics

Type of light	infrared light
Housing	threaded type

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

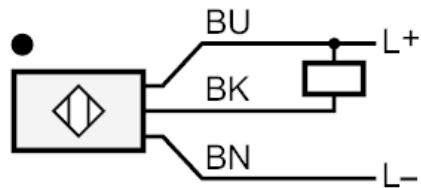
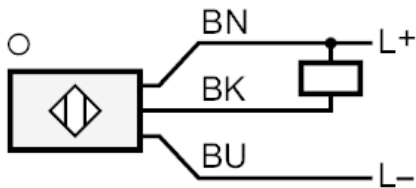
OF5050



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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		
Items supplied		lock nuts: 2
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



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Diagrams and graphs

excess gain graph

