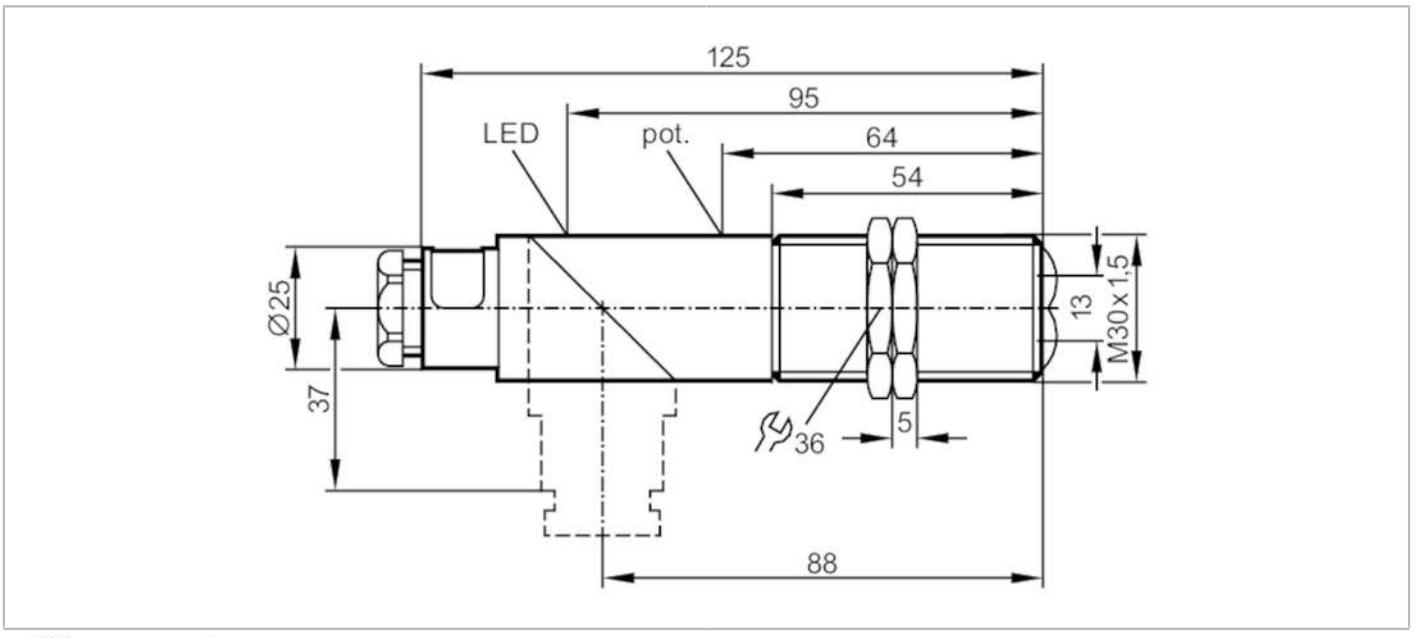
OI0001

Retro-reflective sensor

OIR-FBOA



Product characteristics		
Type of light		infrared light
Housing		threaded type
Application		
Function principle		Retro-reflective sensor
Electrical data		
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no
Type of light		infrared light
Wave length	[nm]	950
Outputs		
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	10.5
Max. voltage drop switching output AC	[V]	10.5
Minimum load current	[mA]	15
Max. leakage current	[mA]	6
Permanent current rating of switching output AC	[mA]	250; (350 (...50 °C))
Permanent current rating of switching output DC	[mA]	250; (350 (...50 °C))
Short-time current rating of switching output	[mA]	2200; (10 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	35
Short-circuit proof		no

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Retro-reflective sensor

OIR-FBOA

Overload protection		no	
Detection zone			
Range referred to prismatic reflector	[m]	0.1...4; (Prismatic reflector Ø 80 E20005)	
Range adjustable		yes	
Max. light spot diameter	[mm]	280	
Light spot dimensions refer to		at maximum range	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 65	
Tests / approvals			
EMC		EN 60947-5-2	
		EN 55011	class B
MTTF	[years]	309	
Mechanical data			
Weight	[g]	120.5	
Housing		threaded type	
Dimensions	[mm]	M30 x 1.5 / L = 125	
Thread designation		M30 x 1.5	
Materials		PBT; PPO modified	
Lens material		PMMA	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Electrical connection			
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting	
Accessories			
Items supplied		lock nuts: 2	
		screwdrivers	
Remarks			
Remarks		Recommendation: Check the safe functioning of the unit after a short circuit.	
Pack quantity		1 pcs.	

OI0001

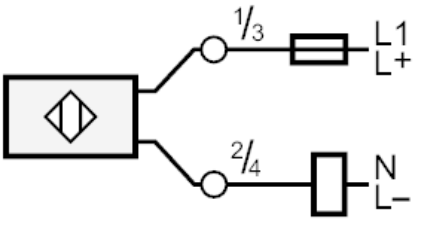
Retro-reflective sensor

OIR-FBOA

Electrical connection

terminals: ...1.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

Connection



Note : miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Diagrams and graphs

excess gain graph

