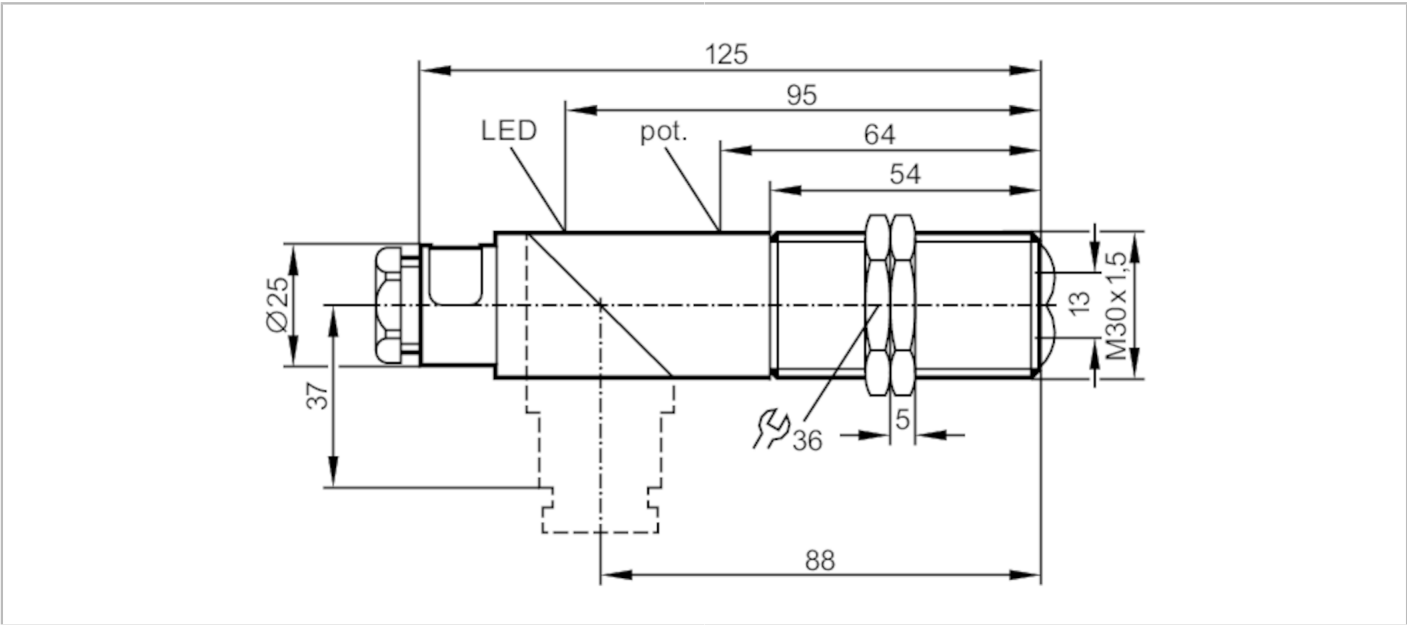




Diffuse reflection sensor

OIT-FBOA



Product characteristics		
Type of light		Infrared light
Housing		Threaded type
Application		
Function principle		Diffuse reflection sensor
Electrical data		
Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no
Type of light		Infrared light
Wave length	[nm]	880



Diffuse reflection sensor

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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	
Overload protection	no	
Monitoring range		
Range [mm]	3...700; (white paper 200 x 200 mm)	
Range adjustable	yes	
Max. light spot diameter [mm]	122	
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	
MTTF [years]	309	
Mechanical data		
Weight [g]	127	
Housing	Threaded type	
Dimensions [mm]	M30 x 1.5 / L = 125	
Thread designation	M30 x 1.5	
Material	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 x screwdrivers	



Diffuse reflection sensor

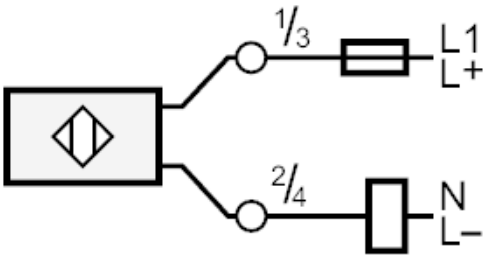
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Remarks	
Remarks	Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	1 pcs.

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



Diffuse reflection sensor

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Diagrams and graphs

excess gain graph

