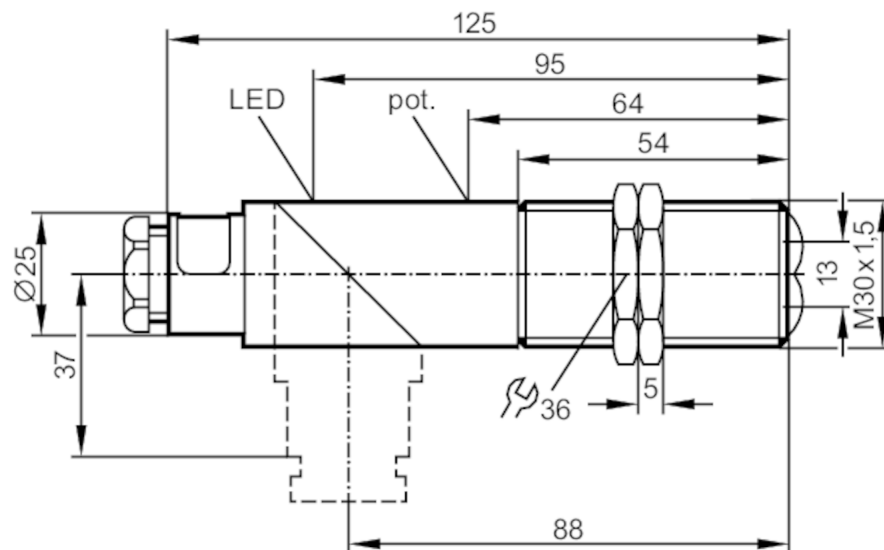


Diffuse reflection sensor

OIT-FBOA



Product characteristics

Type of light	infrared light
Housing	threaded type

Application

Function principle	Diffuse reflection sensor
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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

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



Diffuse reflection sensor

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Short-circuit proof	no
Overload protection	no
Detection zone	
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
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.

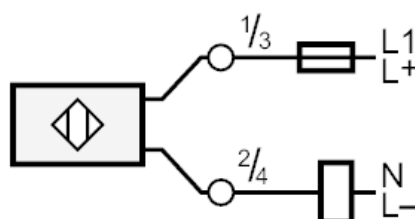
Diffuse reflection sensor

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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

