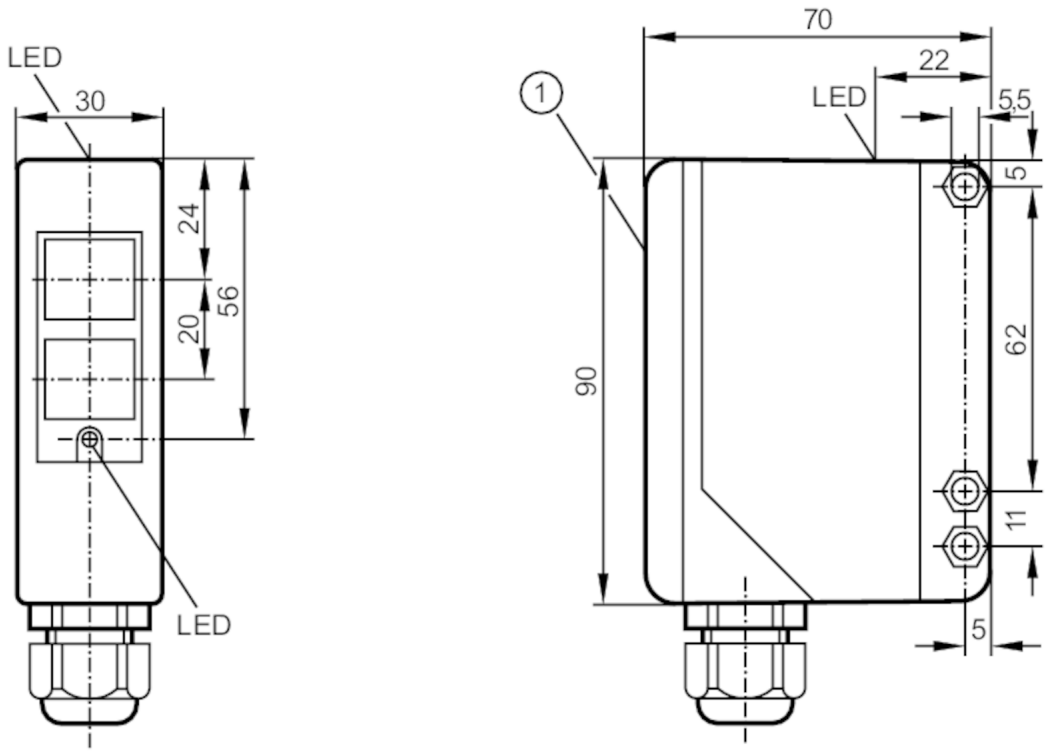
OA0108

Diffuse reflection sensor

OAT-FKOA



1 selection switch and potentiometer under cover
Receiver in upper lens
transmitter in lower lens

Product characteristics		
Type of light		Infrared light
Housing		rectangular
Application		
Function principle		Diffuse reflection sensor
Electrical data		
Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...250 AC/DC
Max. power consumption	[VA]	2
Protection class		II
Reverse polarity protection		no
Type of light		Infrared light
Wave length	[nm]	880
Outputs		
Electrical design		Relay
Output function		light-on/dark-on mode; (programmable)
Contact rating		250 V AC / 3 A / 360 VA, 125 V DC / 3 A / 30 W
Switching frequency AC	[Hz]	10
Switching frequency DC	[Hz]	10

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Short-circuit proof		no
Overload protection		no
Monitoring range		
Range [mm]		5...1500; (white paper 200 x 200 mm)
Range adjustable		yes
Max. light spot diameter [mm]		370
Light spot dimensions refer to		at maximum range
Operating conditions		
Ambient temperature [°C]		-25...60
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]		288
Mechanical data		
Weight [g]		304.5
Housing		rectangular
Dimensions [mm]		90 x 30 x 70
Material		PPO modified
Lens material		PMMA
Lens alignment		Side sensing
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
	Function	1 x LED, red
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 5 A; fast acting
Accessories		
Items supplied		Angle bracket: 1, E20514
		screwdrivers
Remarks		
Remarks		Recommendation: check the unit for reliable function after a short circuit.
Pack quantity		1 pcs.

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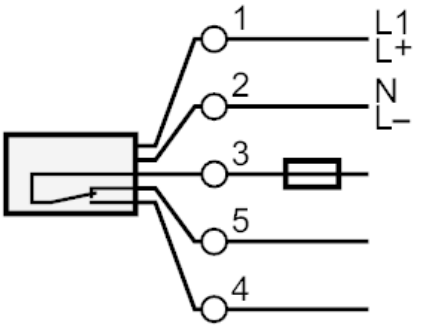
Diffuse reflection sensor

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Electrical connection

terminals: ...1.5 mm²; Cable sheath: Ø 4.5...10 mm; Cable gland: M16 X 1.5

Connection



Note : miniature fuse to IEC60127-2 sheet 1 ≤ 5 A fast acting

Diagrams and graphs

excess gain graph

