



Diffuse reflection sensor

OAT-FKOA



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



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
Short-circuit proof	no
Overload protection	no



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Detection zone		
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]	305
Housing		rectangular
Dimensions	[mm]	90 x 30 x 70
Materials		PPO modified
Lens material		PMMA
Lens alignment		side lens
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	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		
Accessories (supplied)		Angle bracket: 1 x, E20514
		screwdrivers
Remarks		
Remarks		Recommendation: Check the safe functioning of the unit after a short circuit.
Pack quantity		1 pcs.

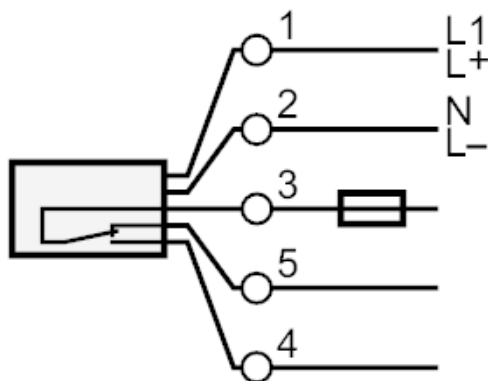
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Electrical connection

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

