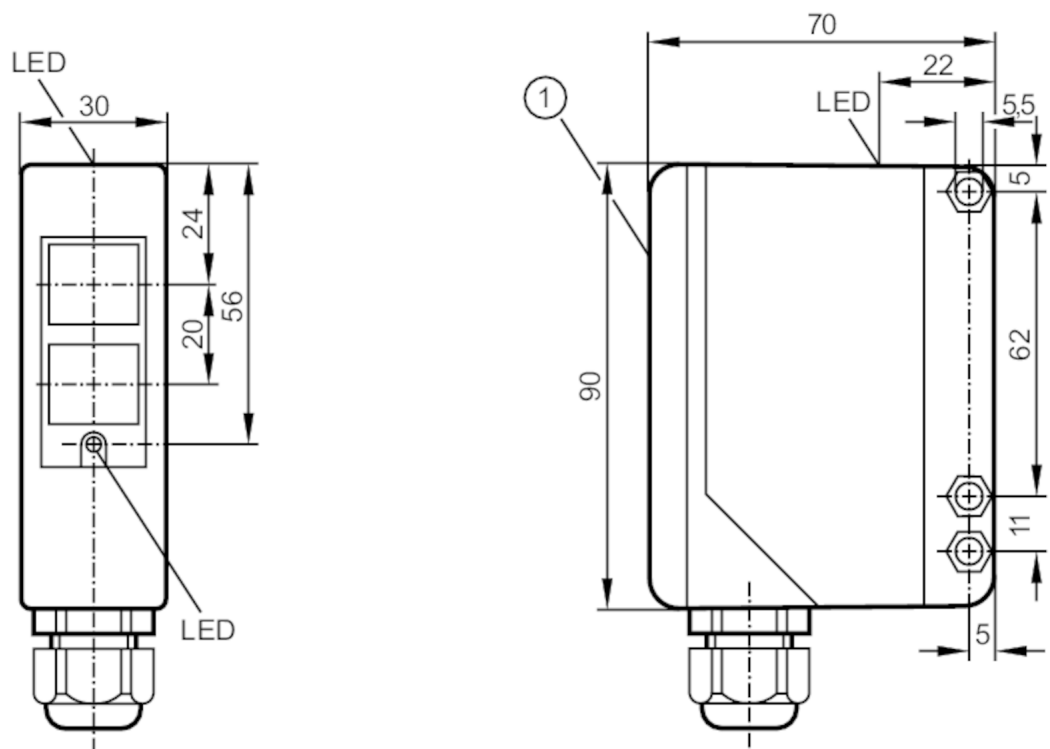


OA5108

Diffuse reflection sensor

OAT-FCKG



- 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

System	Function check output
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 50
Protection class		II
Reverse polarity protection		yes
Type of light		Infrared light
Wave length	[nm]	880

Outputs

Electrical design	PNP/NPN
Output function	light-on/dark-on mode; (programmable)
Function check output	yes
Max. current load for function check output	[mA] 10



Diffuse reflection sensor

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Permanent current rating of switching output DC	[mA]	250
Max. current load in dual output mode	[mA]	100
Switching frequency DC	[Hz]	300
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

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]	402

Mechanical data		
Weight	[g]	287
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

Accessories		
Items supplied	Angle bracket: 1, E20514	
	screwdrivers	

Remarks		
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



5 Function check output

Diagrams and graphs

excess gain graph

