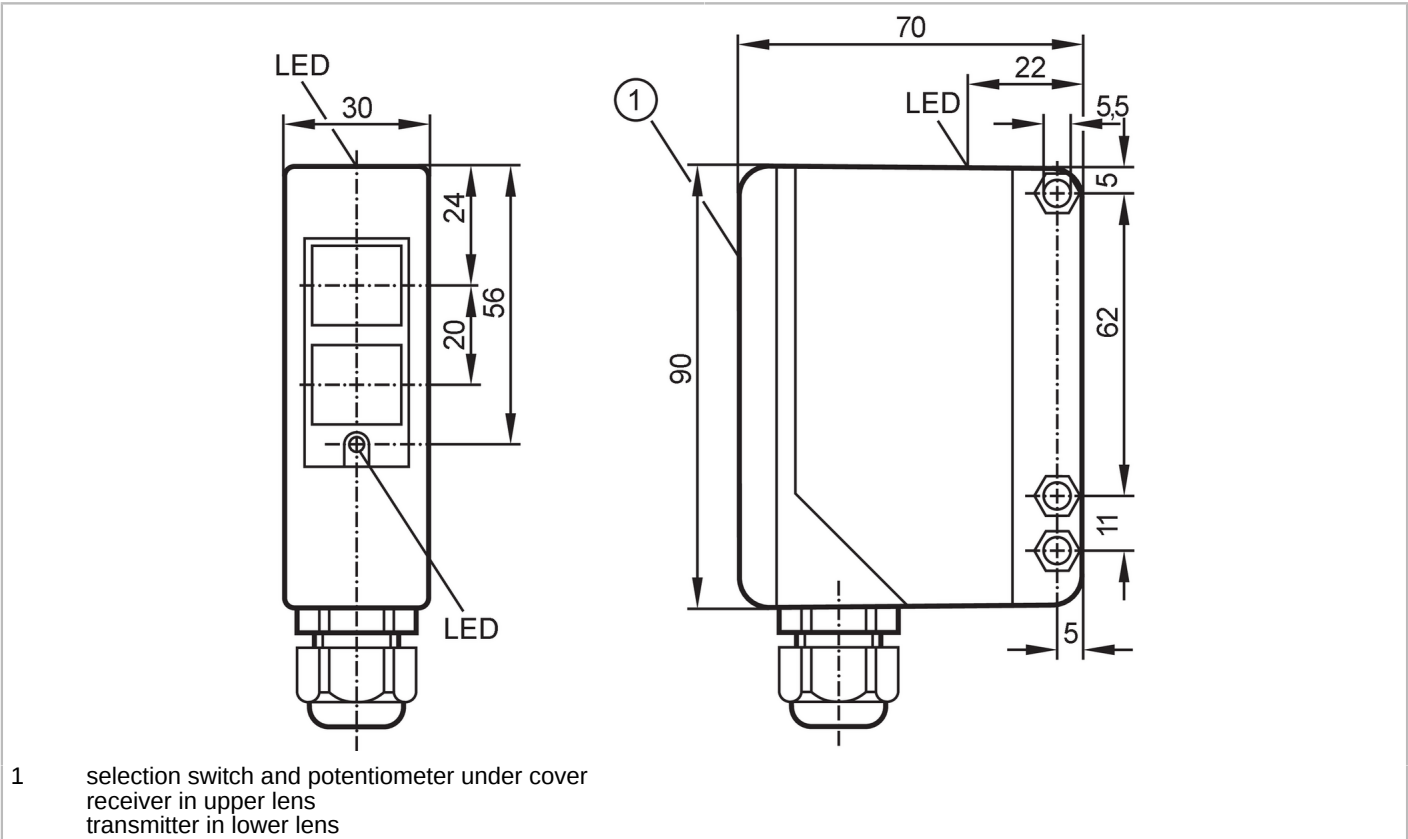




Diffuse reflection sensor

OAT-FCKG



Product characteristics

Type of light	infrared light
Housing	rectangular

Application

Special feature	Function check output
Function principle	Diffuse reflection sensor
Application	Industrial applications / factory automation

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
Permanent current rating of switching output DC	[mA]	250



Diffuse reflection sensor

OAT-FCKG

Max. current load in dual output mode	[mA]	100
Switching frequency DC	[Hz]	300
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

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]	402
UL approval	Ta	< 40 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	UL approval no.	E029
	File number UL	E174191

Mechanical data

Weight	[g]	287
Housing		rectangular
Dimensions	[mm]	90 x 30 x 70
Materials		housing: PPO modified
Lens material		front pane: 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

Accessories

Items supplied	Angle bracket: 1, E20514
	screwdrivers

Remarks

Pack quantity	1 pcs.
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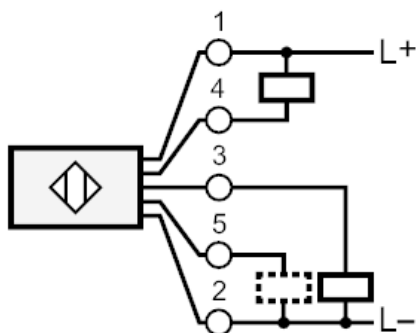
Diffuse reflection sensor

OAT-FCKG

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

