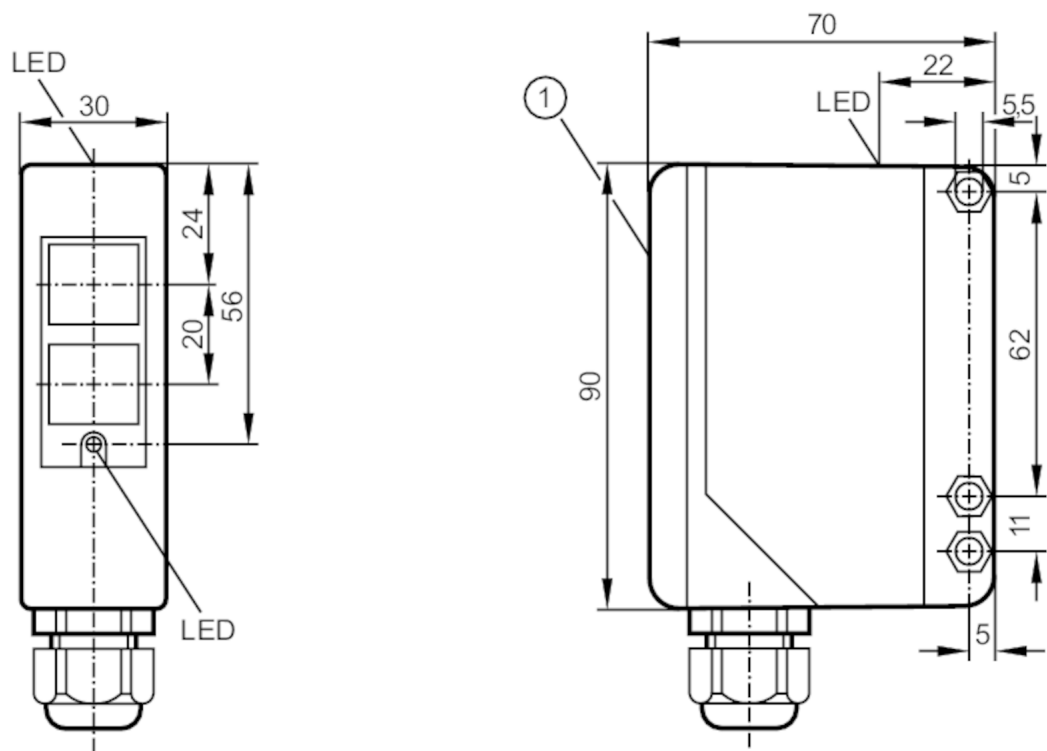


OA5104



Retro-reflective sensor

OAR-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	Retro-reflective 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



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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 referred to prismatic reflector	[m]	0.25...10; (Prismatic reflector Ø 80 E20005)
Range adjustable		yes
Max. light spot diameter	[mm]	350
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	
	EN 55011	class B
MTTF	[years]	402

Mechanical data		
Weight	[g]	284.5
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

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

