

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
UL approval	Ta	< 40 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	E029
	File number UL	E174191

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

