

Retro-reflective sensor

OGP-FNKG/US100



1 programming buttons



Product characteristics

Type of light	red light
Housing	threaded type

Application

Special feature	polarisation filter
Function principle	Retro-reflective sensor

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	20
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	624

Outputs

Electrical design		NPN
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	150; (200 (...60 °C))
Switching frequency DC	[Hz]	2000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Range referred to prismatic reflector	[m]	0.03...5; (Prismatic reflector Ø 80 E20005)
Factory setting		dark-on mode
Range adjustable		yes



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Max. light spot diameter	[mm]	200
Light spot dimensions refer to		at maximum range
Polarisation filter available		yes

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

EMC		EN 60947-5-2
MTTF	[years]	442

Mechanical data

Weight	[g]	60.8
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 72
Thread designation		M18 x 1
Materials		stainless steel (316L/1.4404); PA; LCP; EPDM; TPU
Lens material		PMMA

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied		lock nuts: 2
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Remarks

Remarks		operating voltage "supply class 2" according to cULus
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



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Connection



Diagrams and graphs

excess gain graph

