



Retro-reflective sensor

O6P-FNKG/AS/3P



- 1: output function switch
2: potentiometer sensitivity



Product characteristics

Type of light	red light
Housing	rectangular
Dimensions [mm]	41.3 x 13 x 21

Application

Special feature	polarisation filter
Function principle	Retro-reflective sensor

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	12; ((24 V))
Protection class	III
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	633

Outputs

Electrical design	NPN
Output function	light-on/dark-on mode; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	1000
Short-circuit protection	yes
Type of short-circuit protection	pulsed

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Detection zone	
Range referred to prismatic reflector [m]	0.05...5; (Prismatic reflector Ø 80 E20005)
Range adjustable	yes
Max. light spot diameter [mm]	150
Light spot dimensions refer to	at maximum range
Polarisation filter available	yes

Operating conditions	
Ambient temperature [°C]	-25...80
Protection	IP 65; IP 67; IP 68; IP 69K

Tests / approvals	
EMC	EN 60947-5-2
MTTF [years]	908
UL approval	UL Approval no. E001

Mechanical data	
Weight [g]	35.8
Housing	rectangular
Dimensions [mm]	41.3 x 13 x 21
Materials	housing: stainless steel (1.4404 / 316L); plastics: PPSU; Sealing: EPDM
Lens material	PMMA
Lens alignment	side lens

Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green

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

Electrical connection

Connector: 1 x M8



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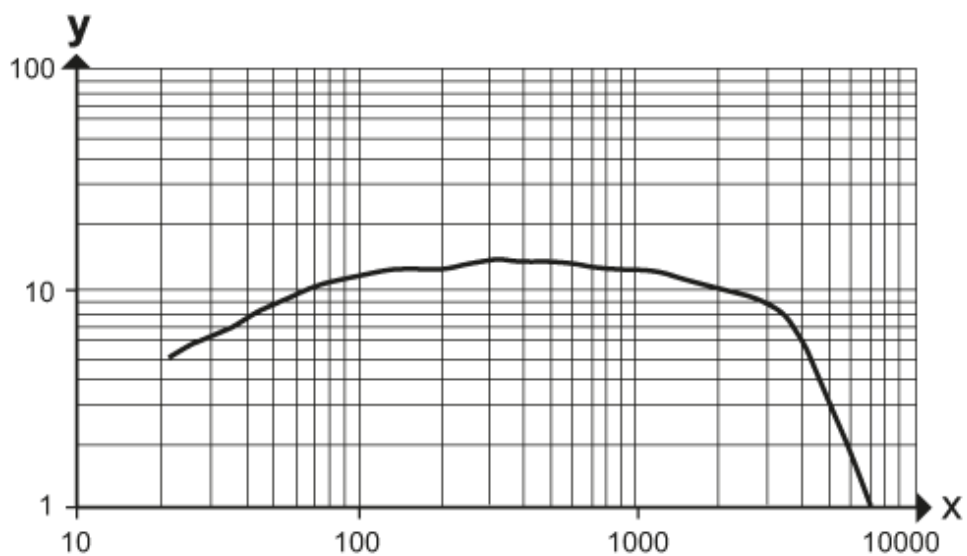
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Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor