

O6P401



Retro-reflective sensor

O6P-FNKG/AS/4P



- 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
Application	suited for use in the machine tool industry

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...60	
Protection	IP 65; IP 67; IP 68	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	909	
UL approval	UL Approval no.	E010
Mechanical data		
Weight [g]	34.4	
Housing	rectangular	
Dimensions [mm]	41.3 x 13 x 21	
Materials	housing: stainless steel (1.4404 / 316L); plastics: PPSU; Sealing: FKM	
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		
		

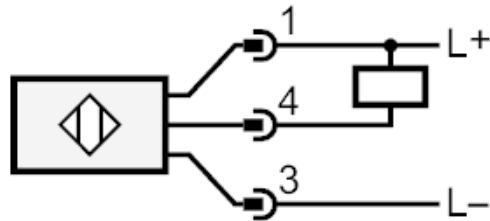
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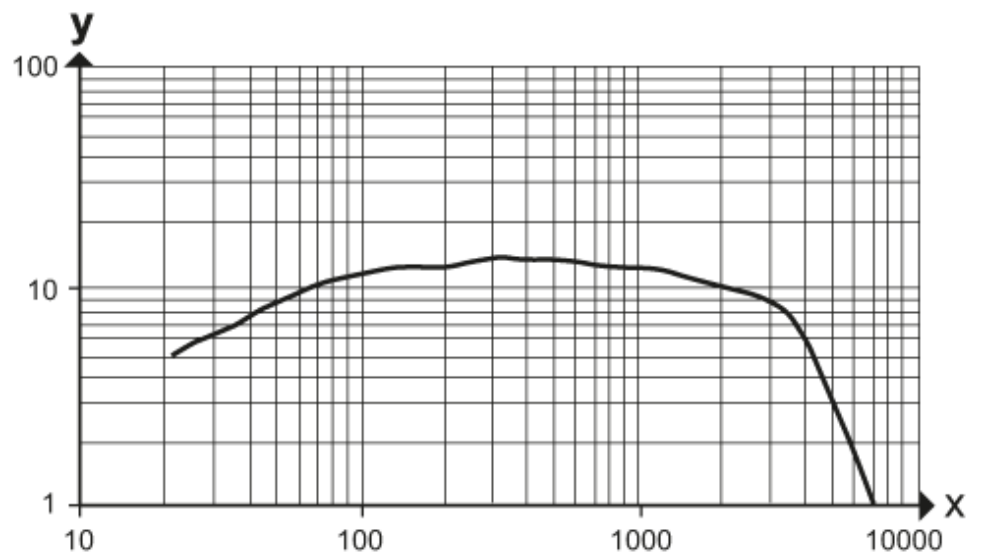
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Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor