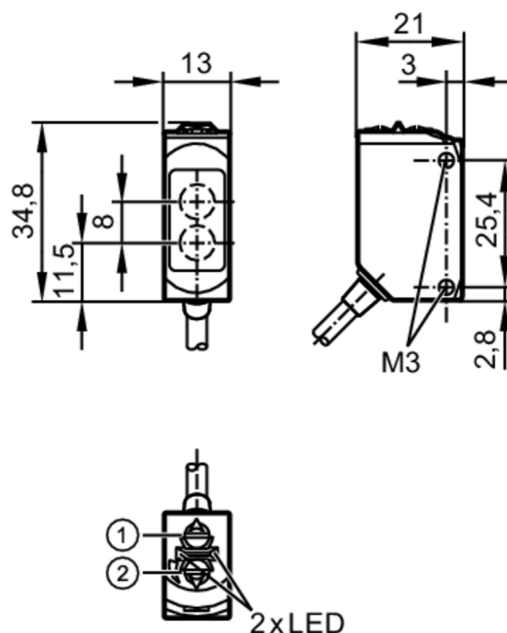




Retro-reflective sensor

O6P-FNKG/0,30m/US



- 1 output function switch
- 1 potentiometer sensitivity
- receiver in upper lens
- transmitter in lower lens



Product characteristics

Type of light	red light
Housing	rectangular

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

O6P305



Retro-reflective sensor

O6P-FNKG/0,30m/US

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	
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.	E006
Mechanical data		
Weight [g]	51.2	
Housing	rectangular	
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		
Cable: 0.3 m, PVC; 3 x 0.25 mm²		
Connector: 1 x M12		

O6P305

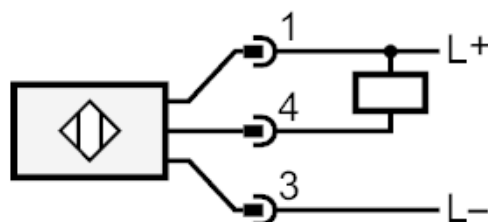


Retro-reflective sensor

O6P-FNKG/0,30m/US

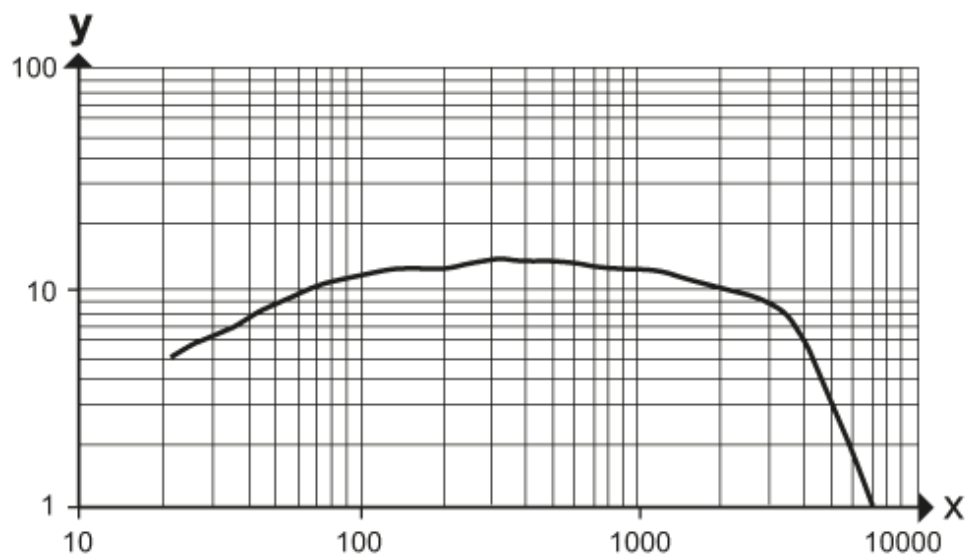


Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor