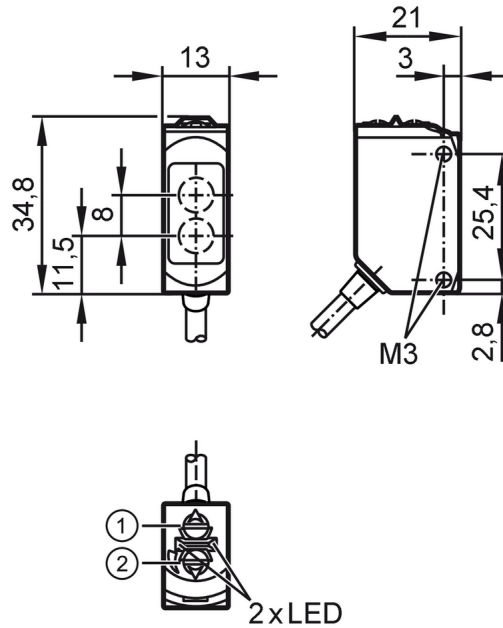


O6P305



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	polarization filter
Function principle	Retro-reflective sensor
Application	food and beverage 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

O6P305



Retro-reflective sensor

O6P-FNKG/0,30m/US

Type of short-circuit protection	yes (non-latching)
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Monitoring range

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
Polarization 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	Ta	-25...40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	UL approval number	E006

Mechanical data

Weight [g]	51.2
Housing	rectangular
Dimensions [mm]	34.8 x 13 x 21
Material	housing: stainless steel (1.4404 / 316L); sealing: EPDM; plastics: PPSU
Lens material	front lens:PMMA
Lens alignment	Side sensing
Tightening torque [Nm]	1; (screws)

Displays / operating elements

Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

Remarks

Remarks	cULus - Class 2 source required
Pack quantity	1 pcs.

Electrical connection

Cable: 0.3 m, PVC; 3 x 0.25 mm²

Connector: 1 x M12; coding: A; Contacts: 4



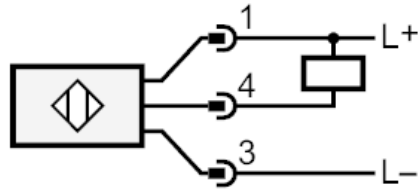
O6P305



Retro-reflective sensor

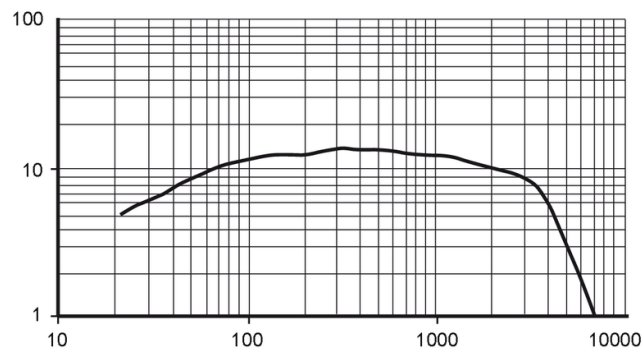
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Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor