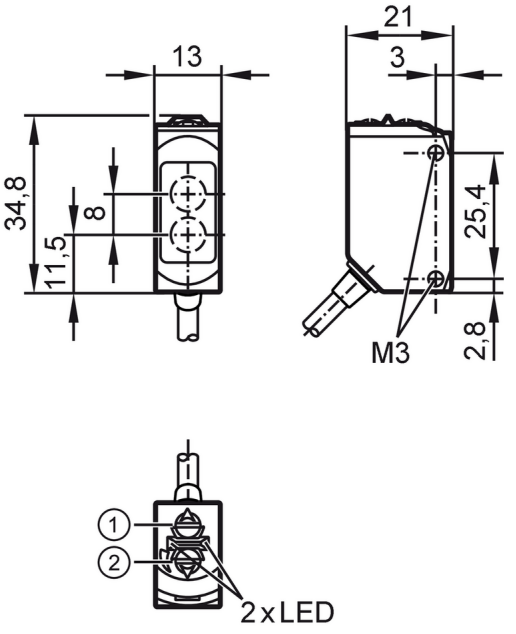
O6T305

Diffuse reflection sensor

O6T-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		
Function principle		Diffuse reflection sensor
Application		food and beverage industry
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	16; ((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

O6T305

Diffuse reflection sensor

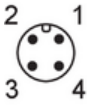
O6T-FNKG/0,30m/US

Detection zone			
Range	[mm]	5...500; (white paper 200 x 200 mm 90% remission)	
Setting range	[mm]	100...500	
Range adjustable		yes	
Max. light spot diameter	[mm]	15	
Light spot dimensions refer to		at maximum range	
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]	910	
UL approval		Ta	-25...40 °C
		Enclosure type	Type 1
		voltage supply	Class 2
		UL approval no.	E006
Mechanical data			
Weight	[g]	51.2	
Housing		rectangular	
Dimensions	[mm]	34.8 x 13 x 21	
Materials		housing: stainless steel (316L/1.4404); Sealing: EPDM; plastics: PPSU	
Lens material		front pane:PMMA	
Lens alignment		side lens	
Tightening torque	[Nm]	1; (screws)	
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; coding: A; Contacts: 4

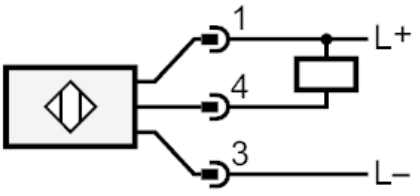


O6T305

Diffuse reflection sensor

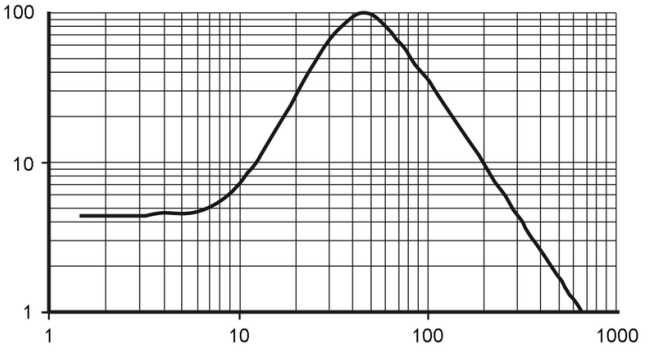
O6T-FNKG/0,30m/US

Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor