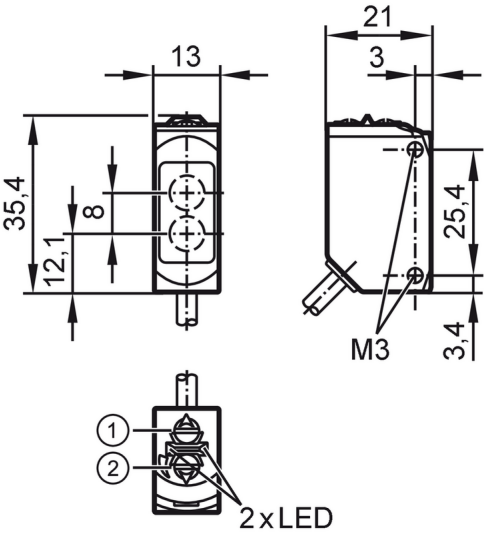
O6T205

Diffuse reflection sensor

O6T-FNKG/0,30m/US



1: output function switch
2: 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		Industrial applications / factory automation
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
Detection zone		
Range	[mm]	5...500; (white paper 200 x 200 mm 90% remission)

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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...60	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	897	
UL approval		Ta	-25...50 °C
		Enclosure type	Type 1
		voltage supply	Class 2
		UL approval no.	E012
Mechanical data			
Weight	[g]	33	
Housing		rectangular	
Dimensions	[mm]	35.4 x 13 x 21	
Materials		housing: ABS orange; upper part of the housing: PPSU black; Sealing: EPDM	
Lens material		front pane:PMMA	
Lens alignment		side lens	
Tightening torque	[Nm]	0.5	
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, PUR; 3 x 0.25 mm²

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

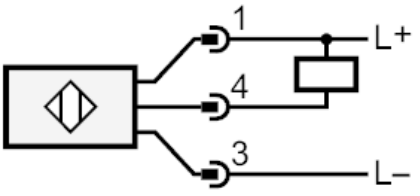


O6T205

Diffuse reflection sensor

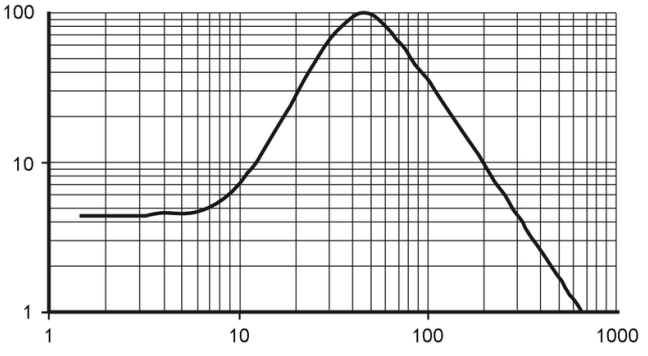
O6T-FNKG/0,30m/US

Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor