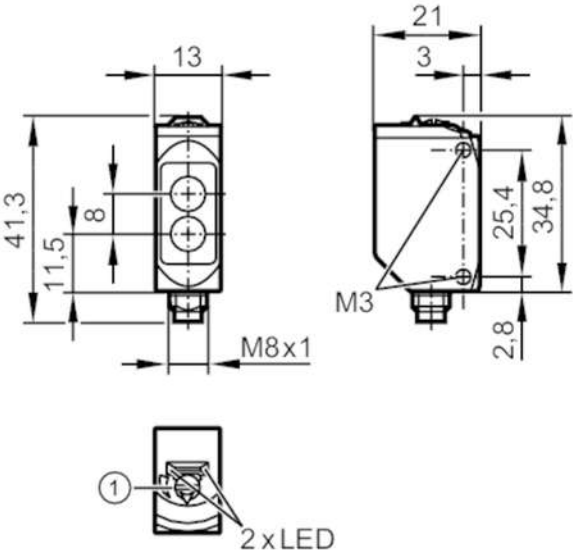
O6T210

Diffuse reflection sensor

O6T-CPKG/AS/4P



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
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	16; ((24 V))
Protection class		III
Reverse polarity protection		yes
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	633
Outputs		
Electrical design		PNP
Output function		complementary
Max. voltage drop switching output DC	[V]	0.5
Minimum load current	[mA]	10
Max. leakage current	[mA]	0.1
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes

O6T210

Diffuse reflection sensor

O6T-CPKG/AS/4P

Type of short-circuit protection		pulsed	
Detection zone			
Range	[mm]	5...500; (white paper 200 x 200 mm 90% remission)	
Setting range	[mm]	5...500	
Range adjustable		yes	
Max. light spot diameter	[mm]	15	
Light spot dimensions refer to		at maximum range	
Response times			
Response time	[s]	< 300	
Operating conditions			
Ambient temperature	[°C]	-10...60	
Protection		IP 65; IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	1172	
UL approval		UL Approval no.	E009
Mechanical data			
Weight	[g]	15.8	
Housing		rectangular	
Dimensions	[mm]	34.8 x 13 x 21	
Materials		housing: ABS; PPSU	
Lens material		PMMA	
Lens alignment		side lens	
Sealing material		EPDM	
Tightening torque	[Nm]	0.5; (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

Connector: 1 x M8; coding: A; Locking: metal, coated; Sealing: EPDM

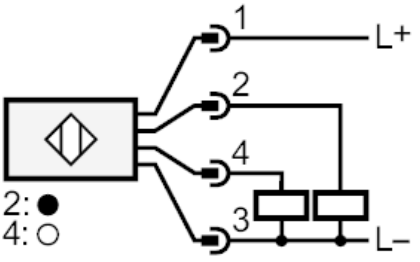


O6T210

Diffuse reflection sensor

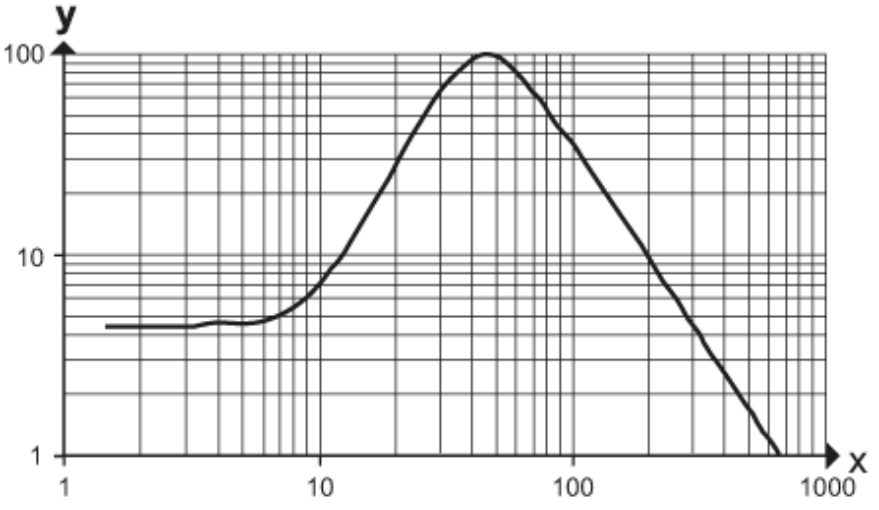
O6T-CPKG/AS/4P

Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor