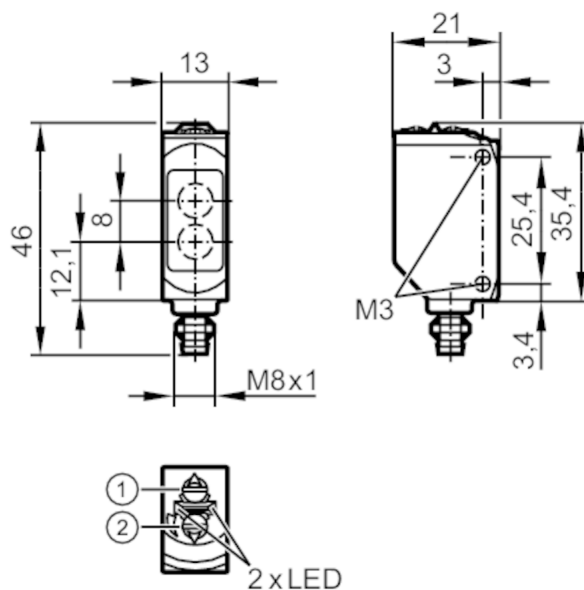# O6T210

Diffuse reflection sensor

O6T-CPKG/AS/4P

1: output function switch
2: potentiometer sensitivity

Product characteristics

Type of light		red light
Housing		rectangular
Dimensions	[mm]	46 x 13 x 21

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

O6T210

Diffuse reflection sensor

O6T-CPKG/AS/4P

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	
Type of short-circuit protection		pulsed	

Detection zone			
Range	[mm]	5...500; (white paper 200 x 200 mm 90% remission)	
Range adjustable		yes	
Max. light spot diameter	[mm]	15	
Light spot dimensions refer to		at maximum range	
Monitoring range final value	[mm]	5...500	

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]	17.4	
Housing		rectangular	
Dimensions	[mm]	46 x 13 x 21	
Materials		housing: ABS; PPSU; connector thread: metal coated; Sealing: EPDM	
Lens material		PMMA	
Lens alignment		side lens	
Material nut		metal, coated	
Tightening torque	[Nm]	0.5; (screws)	

Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	1 x LED, green

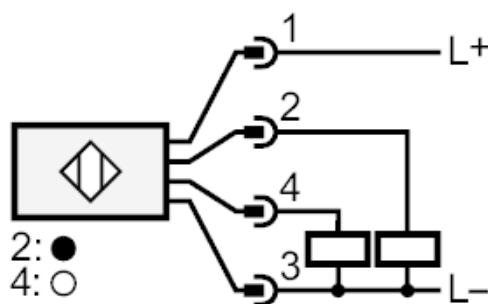| Remarks			
Remarks		operating voltage "supply class 2" according to cULus	
Pack quantity		1 pcs.	

O6T210

Diffuse reflection sensor

O6T-CPKG/AS/4P

Electrical connection

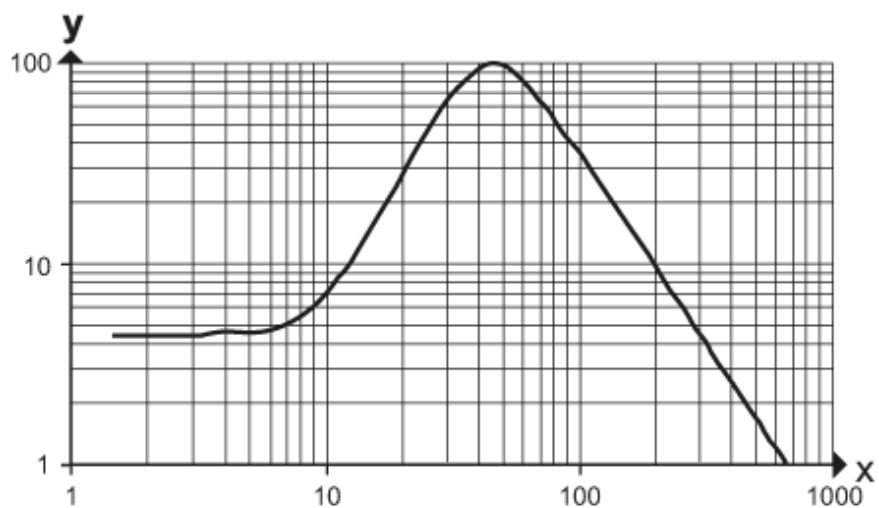Connector: 1 x M8; Locking: metal, coated

Connection

Diagrams and graphs

excess gain graph

x: distance [mm]

y: excess gain factor