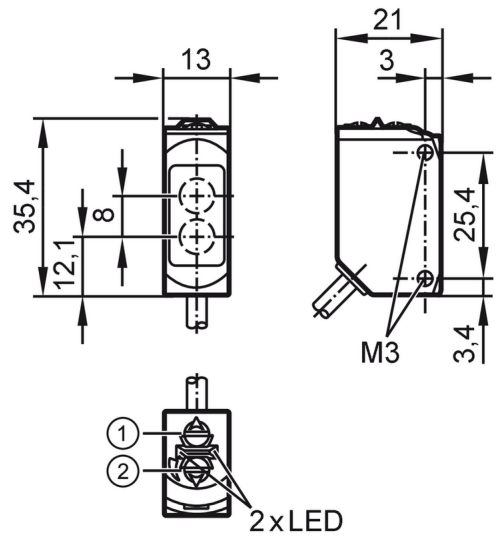


O6T204



Diffuse reflection sensor

O6T-FNKG



- 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

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		yes (non-latching)

Monitoring range

Range	[mm]	5...500; (white paper 200 x 200 mm 90 % remission)
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O6T204



Diffuse reflection sensor

O6T-FNKG

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...60 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	UL approval number	E008
Mechanical data		
Weight	[g]	60
Housing		rectangular
Dimensions	[mm]	35.4 x 13 x 21
Material		housing: ABS orange; upper part of the housing: PPSU black; sealing: EPDM
Lens material		front lens:PMMA
Lens alignment		Side sensing
Tightening torque	[Nm]	0.5
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.



Diffuse reflection sensor

O6T-FNKG

Electrical connection

Cable: 2 m, PUR; 3 x 0.25 mm²

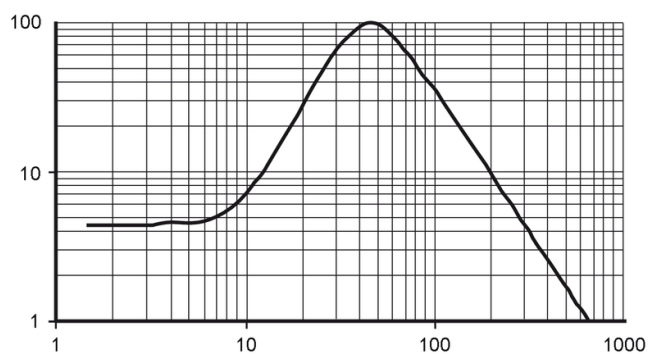
Connection



Core colors :
 BN = brown
 BK = black
 BU = blue

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor