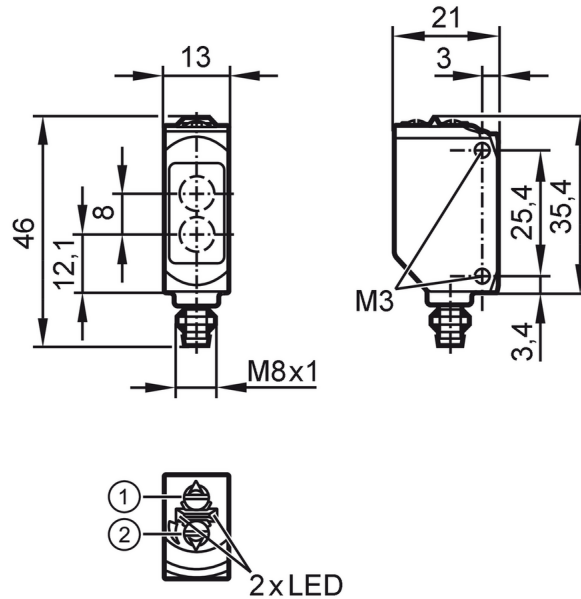


O6T206



Diffuse reflection sensor

O6T-FNKG/AS/3P



- 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)

O6T206



Diffuse reflection sensor

O6T-FNKG/AS/3P

Monitoring range		
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...60
Protection		IP 65; IP 67

Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	897
UL approval	Ta	-25...40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	UL approval number	E001

Mechanical data		
Weight	[g]	18.1
Housing		rectangular
Dimensions	[mm]	46 x 13 x 21
Material		housing: ABS orange; upper part of the housing: PPSU black
Lens material		front lens:PMMA
Lens alignment		Side sensing
Sealing material		EPDM
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.

Electrical connection
Connector: 1 x M8; coding: A; Contacts: 3; Locking: brass, coated; sealing: EPDM

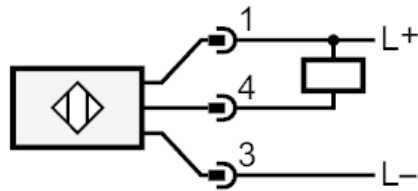




Diffuse reflection sensor

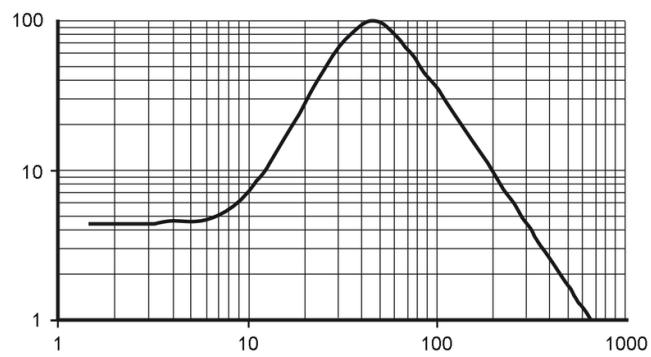
O6T-FNKG/AS/3P

Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor