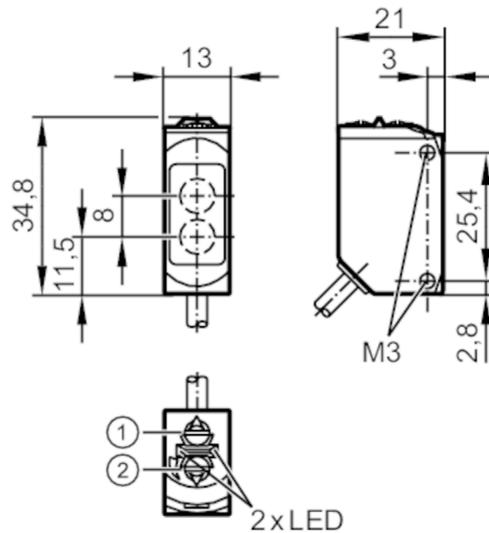


O6T405



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	suited for use in the machine tool industry

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)

O6T405



Diffuse reflection sensor

O6T-FNKG/0,30m/US

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; IP 68

Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	896
UL approval	Ta	-25...50 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	UL approval number	E020

Mechanical data		
Weight	[g]	51.4
Housing		rectangular
Dimensions	[mm]	34.8 x 13 x 21
Material		housing: stainless steel (1.4404 / 316L); plastics: PPSU; sealing: FKM
Lens material		PMMA
Lens alignment		Side sensing
Tightening torque	[Nm]	1; (screws)

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

Cable: 0.3 m, PUR; 3 x 0.25 mm²

Connector: 1 x M12; coding: A

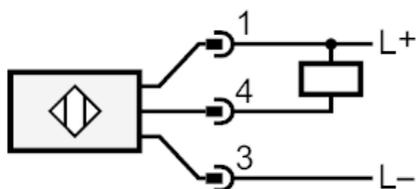




Diffuse reflection sensor

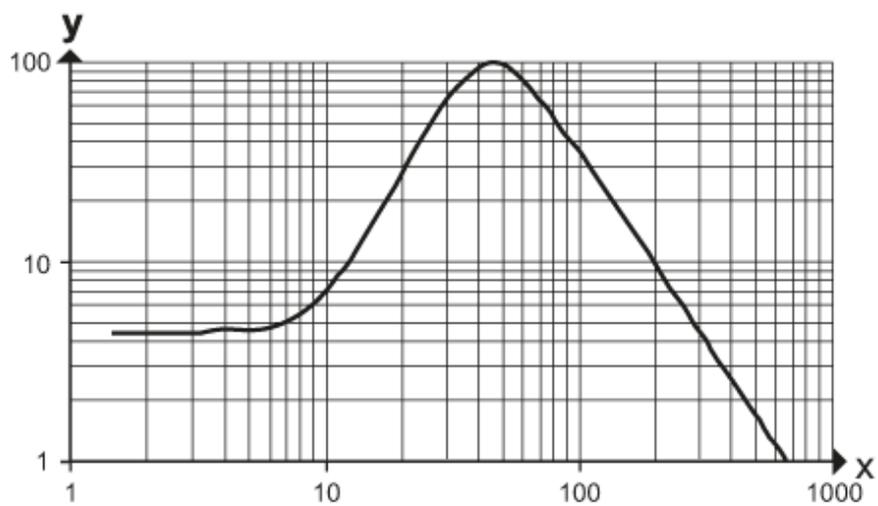
O6T-FNKG/0,30m/US

Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor