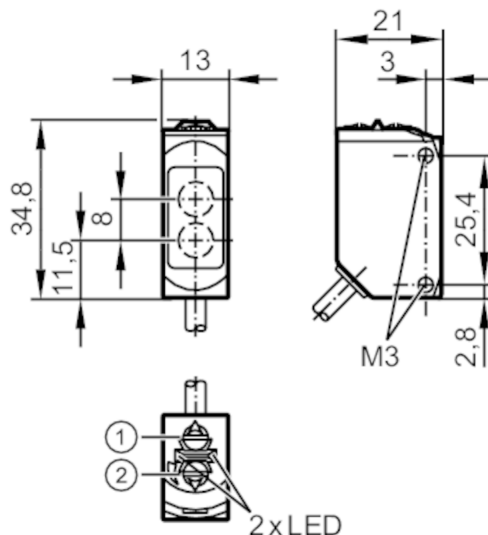


O6T405



Diffuse reflection sensor

O6T-FNKG/0,30m/US



- 1 output function switch
- 2 potentiometer sensitivity
- receiver in upper lens
- transmitter in lower lens



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		pulsed

O6T405



Diffuse reflection sensor

O6T-FNKG/0,30m/US

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]	100...500

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		UL Approval no. E20

Mechanical data		
Weight	[g]	51.2
Housing		rectangular
Dimensions	[mm]	34.8 x 13 x 21
Materials		housing: stainless steel (1.4404 / 316L); plastics: PPSU; Sealing: FKM
Lens material		PMMA
Lens alignment		side lens

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		
-----------------------	--	--

Cable: 0.3 m, PUR; 3 x 0.25 mm²

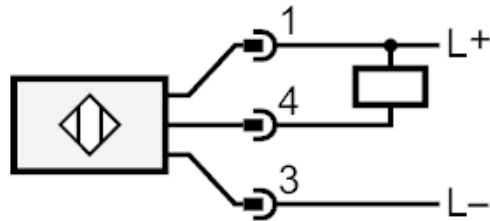
Connector: 1 x M12



Diffuse reflection sensor

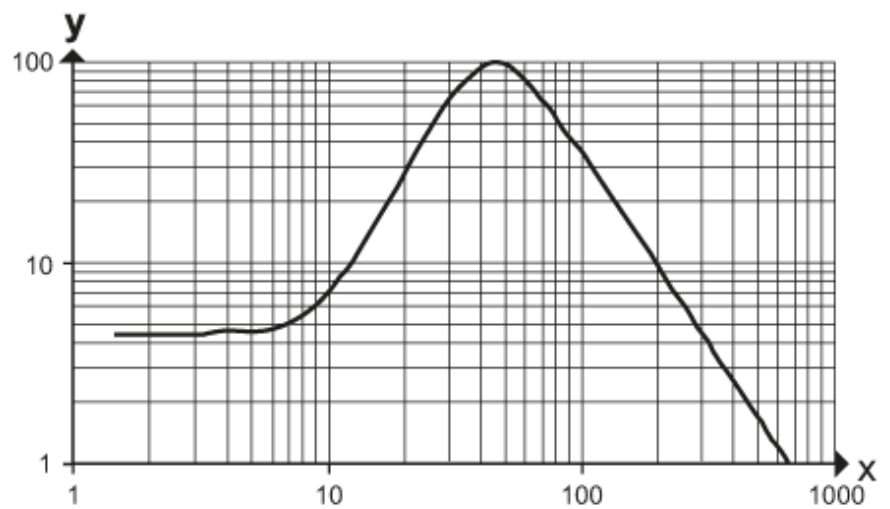
O6T-FNKG/0,30m/US

Connection



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor