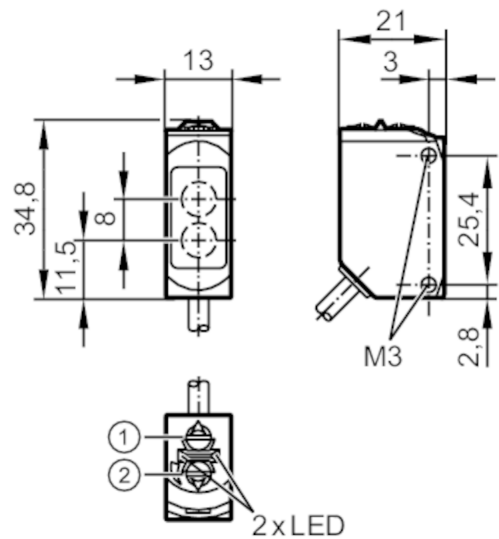


O6T403



Diffuse reflection sensor

O6T-FNKG/5M



- 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		pulsed



Diffuse reflection sensor

O6T-FNKG/5M

Detection zone		
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...60 °C
	Enclosure type	Type 1
	power supply	Class 2
	UL approval no.	E018
Mechanical data		
Weight	[g]	133.3
Housing		rectangular
Dimensions	[mm]	34.8 x 13 x 21
Materials		housing: stainless steel (316L/1.4404); plastics: PPSU; Sealing: FKM
Lens material		PMMA
Lens alignment		side lens
Tightening torque	[Nm]	1; (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.

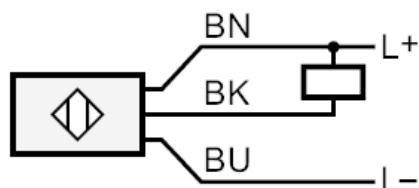
Diffuse reflection sensor

O6T-FNKG/5M

Electrical connection

Cable: 5 m, PUR; 3 x 0.25 mm²

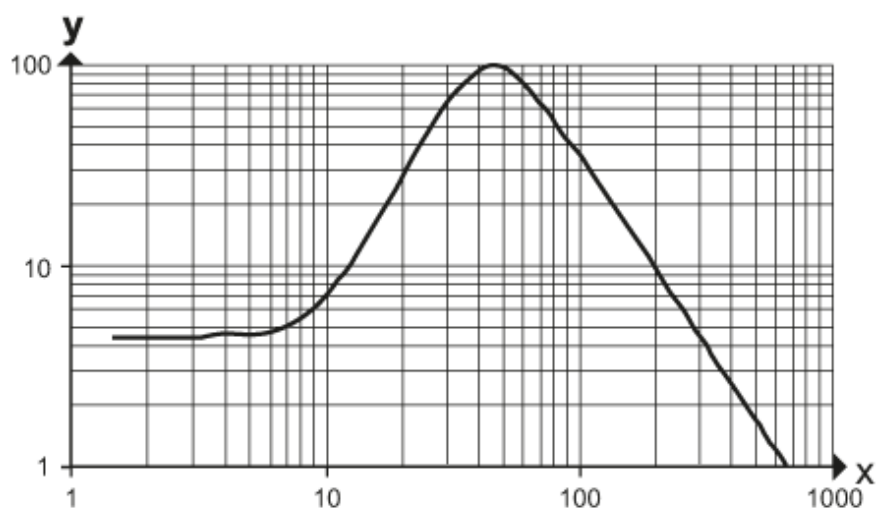
Connection



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

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor