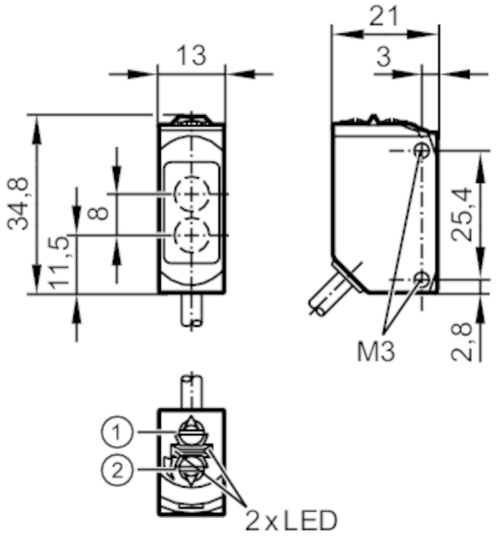
O6T403

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
Dimensions	[mm]	34.8 x 13 x 21
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

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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	
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.	E018
Mechanical data			
Weight	[g]	133.3	
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.	

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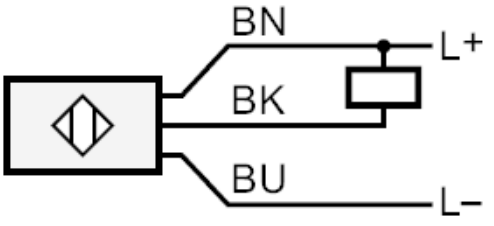
Electrical connection

Cable: 5 m, PUR; 3 x 0.25 mm²

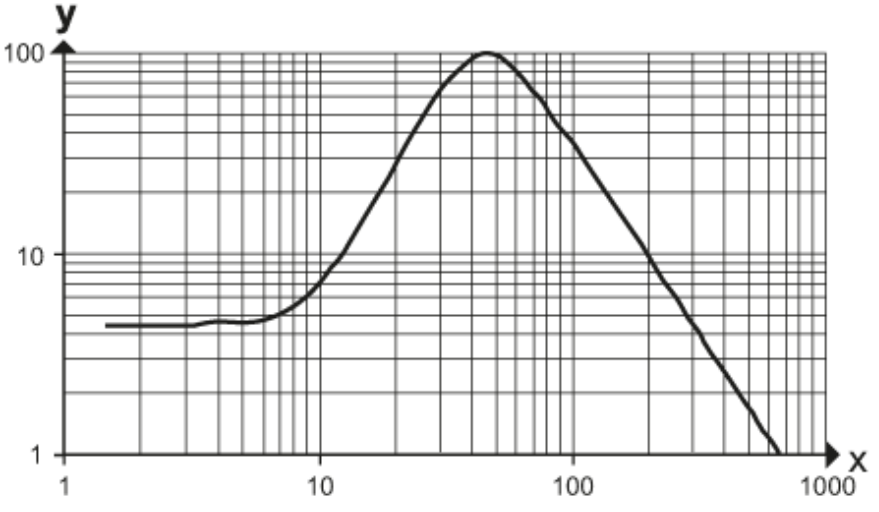
Connection



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

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor