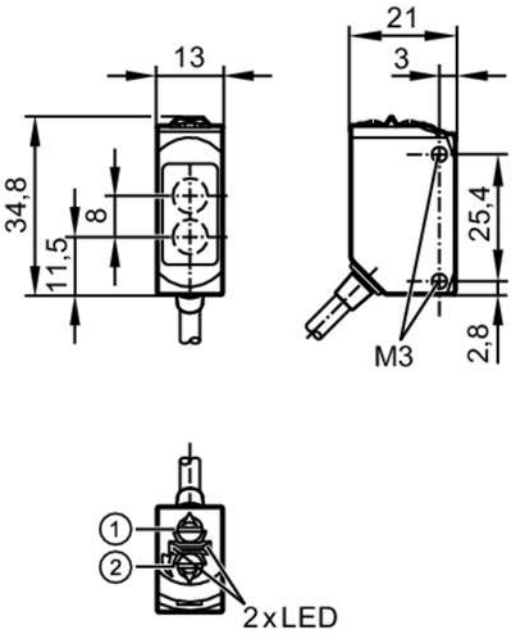
O6T304

Diffuse reflection sensor

O6T-FNKG



1 output function switch
1 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
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

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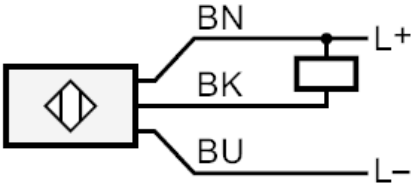
Diffuse reflection sensor

O6T-FNKG

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...80	
Protection		IP 65; IP 67; IP 68; IP 69K	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	910	
UL approval		power supply	Class 2
		UL Approval no.	E003
Mechanical data			
Weight	[g]	80.9	
Housing		rectangular	
Materials		housing: stainless steel (316L/1.4404); plastics: PPSU; Sealing: EPDM	
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			
Pack quantity		1 pcs.	
Electrical connection			

Cable: 2 m, PVC; 3 x 0.25 mm²

Connection



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

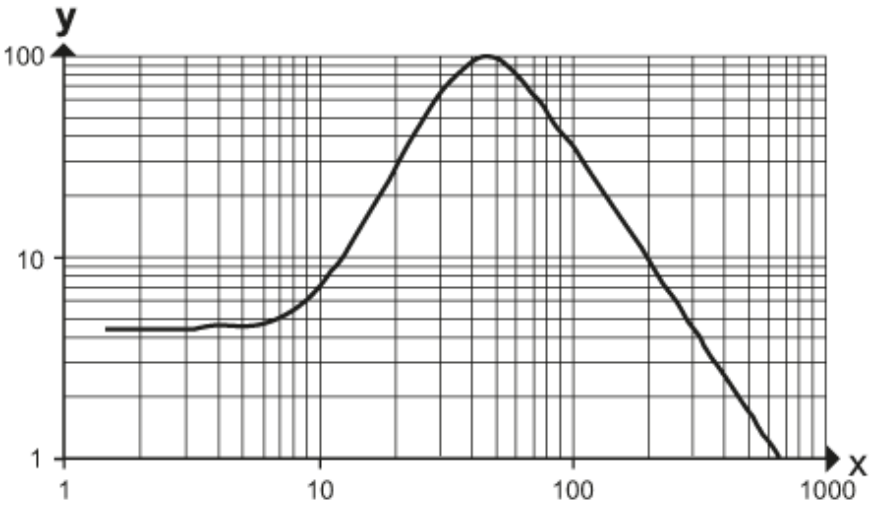
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Diffuse reflection sensor

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Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor