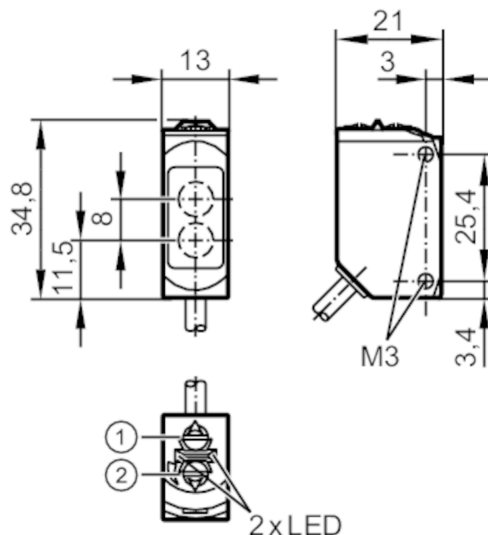




Diffuse reflection sensor

O6T-FNKG



- 1: output function switch
2: potentiometer sensitivity



Product characteristics

Type of light	red light
Housing	rectangular

Application

Function principle	Diffuse reflection sensor
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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

Detection zone

Range	[mm]	5...500; (white paper 200 x 200 mm 90% remission)
Setting range	[mm]	100...500

O6T304



Diffuse reflection sensor

O6T-FNKG

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
Dimensions [mm]	34.8 x 13 x 21
Materials	housing: stainless steel (316L/1.4404); plastics: PPSU; Sealing: EPDM
Lens material	PMMA
Lens alignment	side lens

Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	1 x LED, green

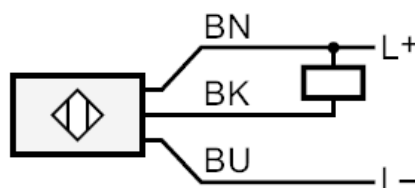
Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 2 m, PVC; 3 x 0.25 mm²

Connection



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

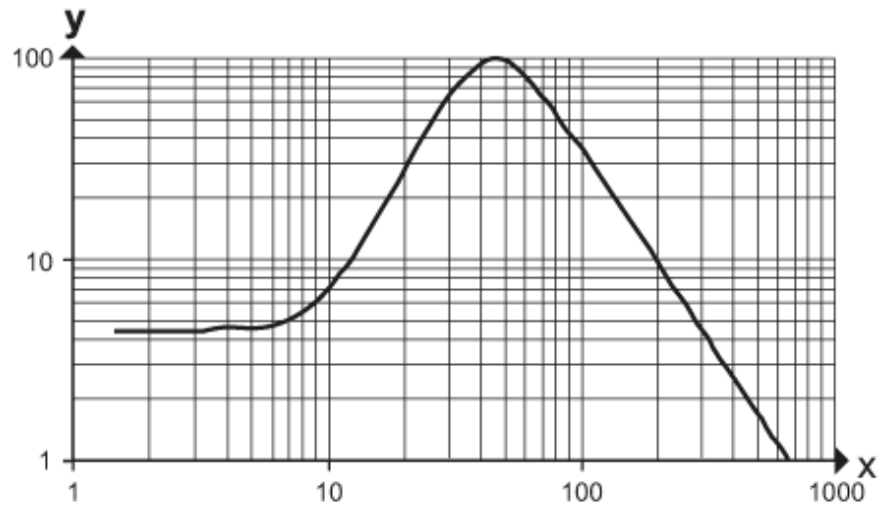


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Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor