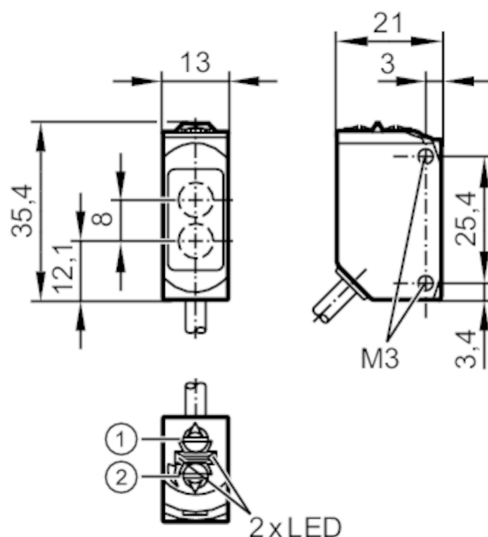


Diffuse reflection sensor

O6T-FNKG



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



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



Diffuse reflection sensor

O6T-FNKG

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
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	897
UL approval		UL Approval no. E008
Mechanical data		
Weight	[g]	56.8
Housing		rectangular
Dimensions	[mm]	35.4 x 13 x 21
Materials		housing: ABS; PPSU; Sealing: EPDM
Lens material		PMMA
Lens alignment		side lens
Tightening torque	[Nm]	0.5
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.

O6T204



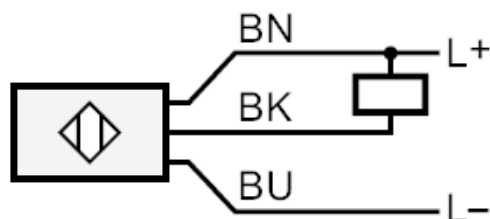
Diffuse reflection sensor

O6T-FNKG

Electrical connection

Cable: 2 m, PUR; 3 x 0.25 mm²

Connection

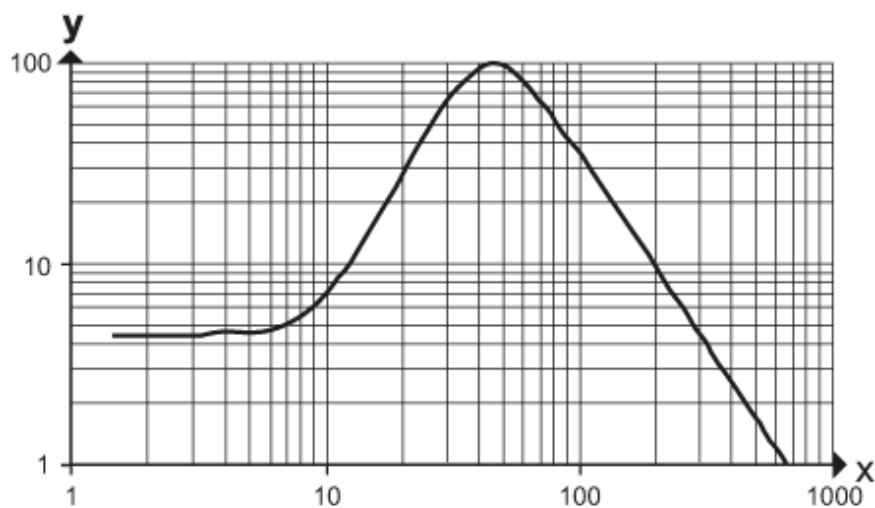


Core colours :

BN = brown
BK = black
BU = blue

Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor