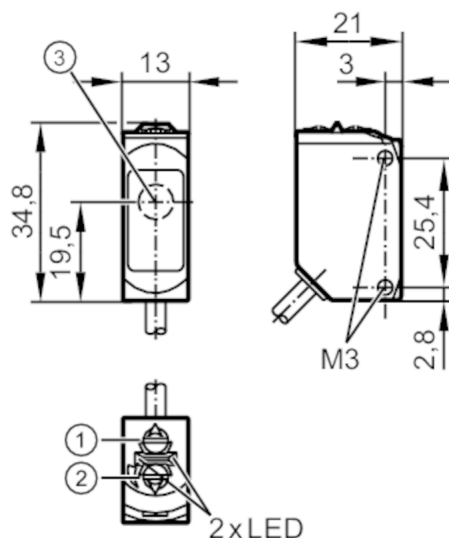




Through-beam sensor receiver

O6E-FNKG



- 1 output function switch
 2 potentiometer sensitivity
 3 Light incidence



Application

Function principle Through-beam sensor

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	7; ((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

Transmitter / receiver	receiver
Range [m]	< 10
Range adjustable	yes

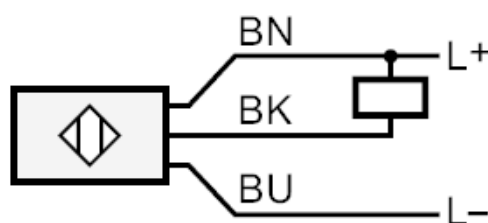
O6E304



Through-beam sensor receiver

O6E-FNKG

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]	1014
UL approval		UL Approval no. E003
Mechanical data		
Weight	[g]	35.7
Housing		rectangular
Dimensions	[mm]	34.8 x 13 x 21
Materials		housing: stainless steel (1.4404 / 316L); 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		
Remarks	operating voltage "supply class 2" according to cULus	
Pack quantity	1 pcs.	
Electrical connection		
Cable: 2 m, PVC; 3 x 0.25 mm²		
Connection		



Core colours :

BN = brown
BK = black
BU = blue

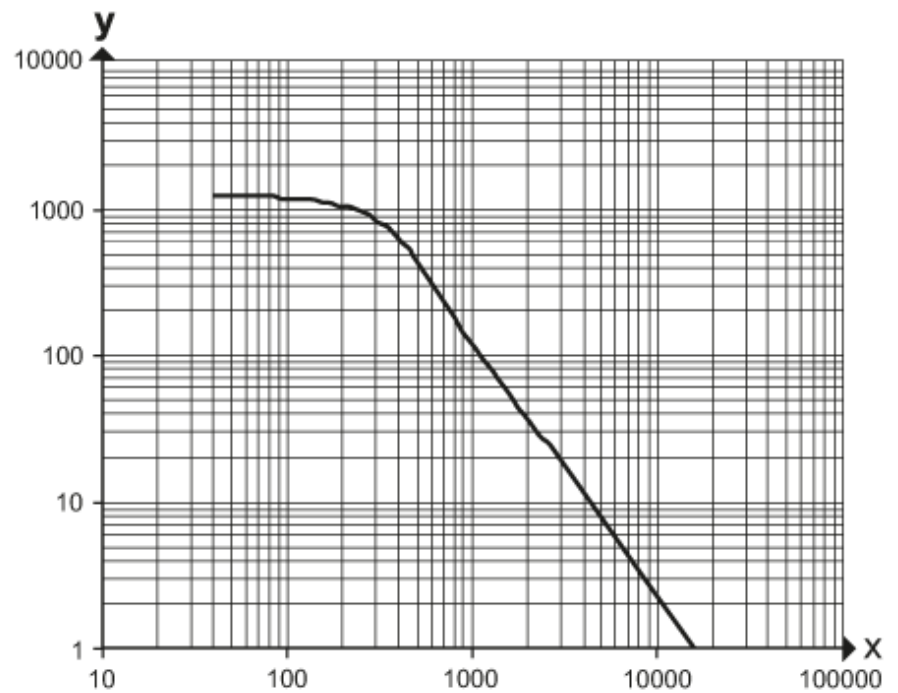


Through-beam sensor receiver

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Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor