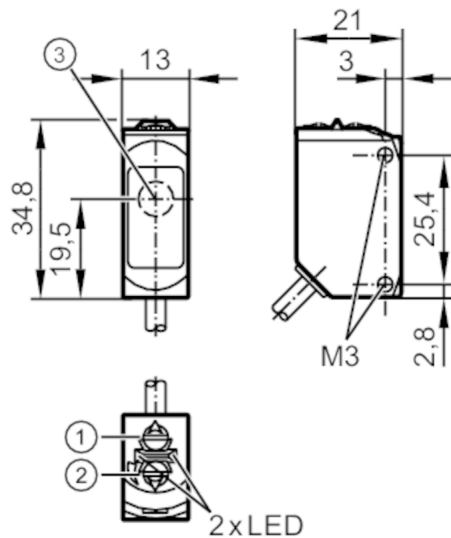




Through-beam sensor receiver

O6E-FNKG/0,30m/US



- 1: output function switch
- 2: potentiometer sensitivity
- 3: Light incidence



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Function principle		Through-beam sensor
Application		suited for use in the machine tool industry
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



Through-beam sensor receiver

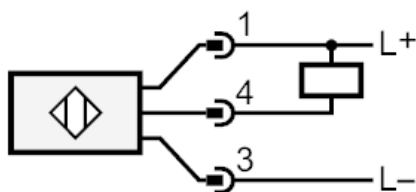
O6E-FNKG/0,30m/US

Detection zone		
Transmitter / receiver		receiver
Range [m]		< 10
Range adjustable		yes
Operating conditions		
Ambient temperature [°C]		-25...60
Protection		IP 65; IP 67; IP 68
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]		954
UL approval	UL Approval no.	E020
Mechanical data		
Weight [g]		49.7
Housing		rectangular
Dimensions [mm]		34.8 x 13 x 21
Materials		housing: stainless steel (316L/1.4404); plastics: PPSU; Sealing: FKM
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		
Remarks		operating voltage "supply class 2" according to cULus
Pack quantity		1 pcs.
Electrical connection		
Cable: 0.3 m, PUR; 3 x 0.25 mm ²		
Connector: 1 x M12; coding: A		
		

Through-beam sensor receiver

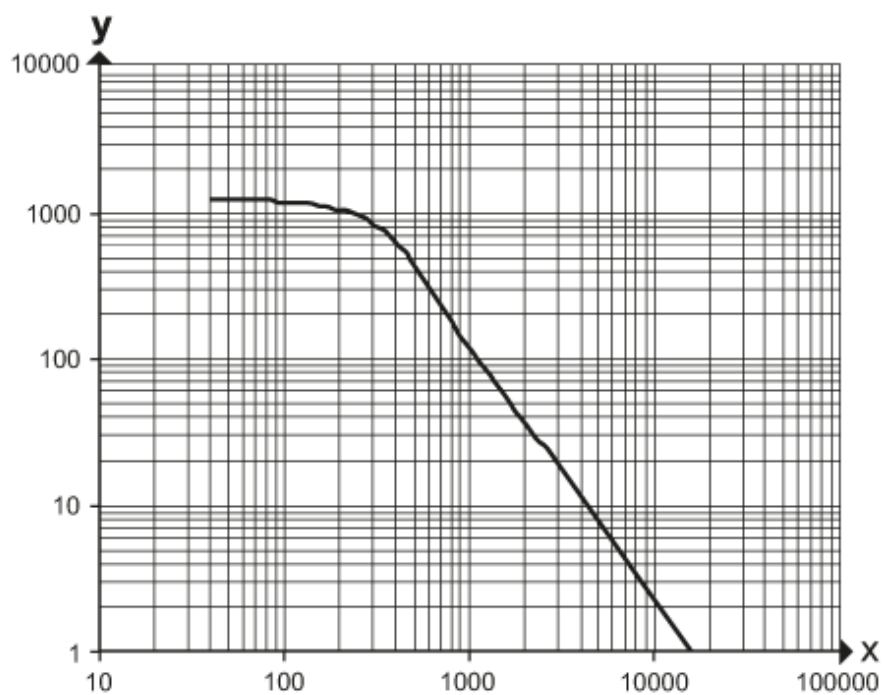
O6E-FNKG/0,30m/US

Connection



Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor