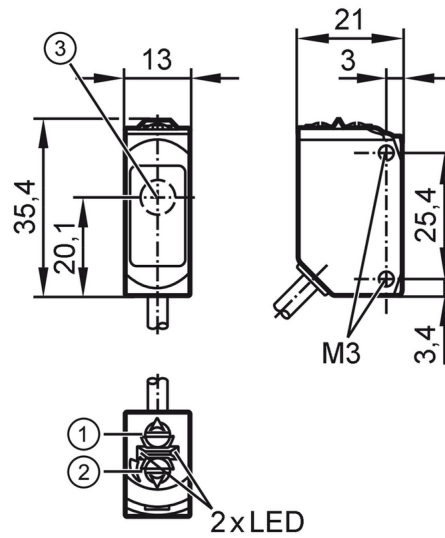


# O6E205



## 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	Industrial applications / factory automation

### 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

# O6E205



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Range adjustable	yes
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### Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 65; IP 67

### Tests / approvals

EMC	EN 60947-5-2	
MTTF [years]	956	
UL approval	Ta	-25...50 °C
	Enclosure type	Type 1
	power supply	Class 2
	UL approval no.	E012

### Mechanical data

Weight [g]	32.9
Housing	rectangular
Dimensions [mm]	35.4 x 13 x 21
Materials	housing: ABS orange; upper part of the housing: PPSU black; Sealing: EPDM
Lens material	front pane: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.

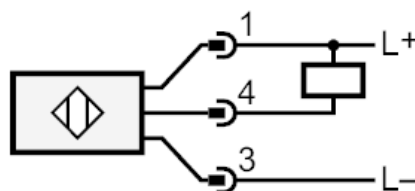
### Electrical connection

Cable: 0.3 m, PUR; 3 x 0.25 mm<sup>2</sup>

Connector: 1 x M12; coding: A; Contacts: 4



### Connection



# O6E205

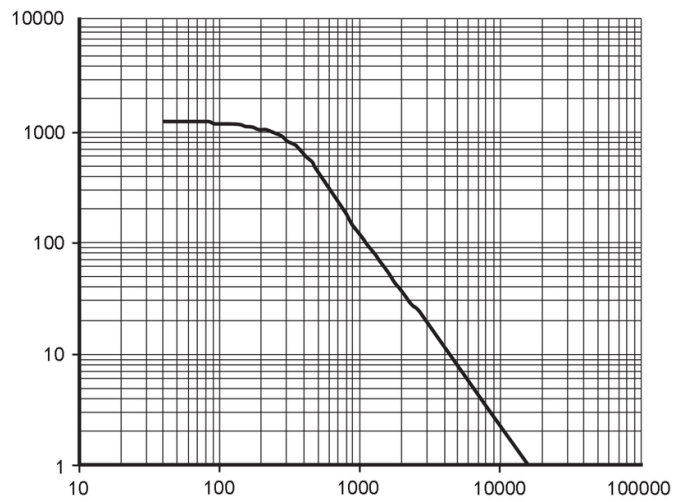


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### Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor