



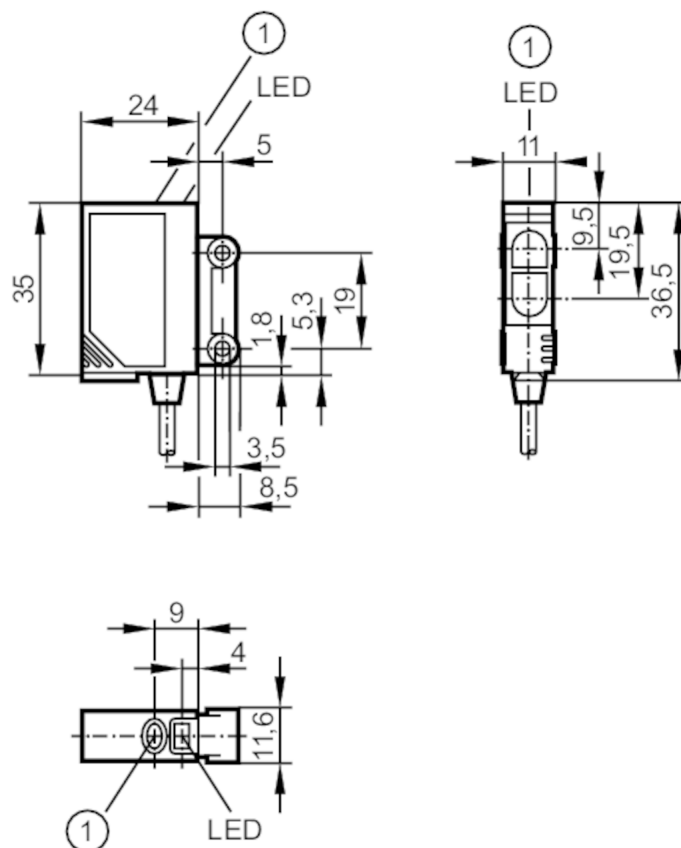
Diffuse reflection sensors with background suppression

OJH-FPKG/SO/12M

Article no longer available - archive entry

Alternative articles: OJ5148

When selecting an alternative article and accessories please note that technical data may differ!



- 1 pushbutton
Receiver in upper lens
transmitter in lower lens

Product characteristics

Type of light	red light
Housing	rectangular

Application

System	Background suppression
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	12...30 DC
Current consumption	[mA]	25
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	660

Outputs

Electrical design	PNP
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Output function		light-on/dark-on mode; (configurable)
Max. voltage drop switching output DC	[V]	3.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

Monitoring range

Range	[mm]	15...400; (white paper 200 x 200 mm 90 % remission)
Range adjustable		yes
Max. light spot diameter	[mm]	18
Light spot dimensions refer to		Range
Background suppression available		yes

Operating conditions

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

Tests / approvals

EMC	EN 60947-5-2	
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Mechanical data

Weight	[g]	0.241
Housing		rectangular
Dimensions	[mm]	35 x 11 x 24
Material		housing: ABS; LED window: SEPS; pushbutton: SEPS
Lens material		PMMA
Lens alignment		Side sensing

Displays / operating elements

Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
Electronic lock		yes

Accessories

Items supplied	screws: 2
	spring washers: 2
	Nuts: 2

Remarks

Pack quantity	1 pcs.
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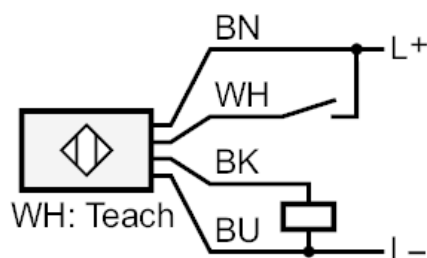
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Electrical connection

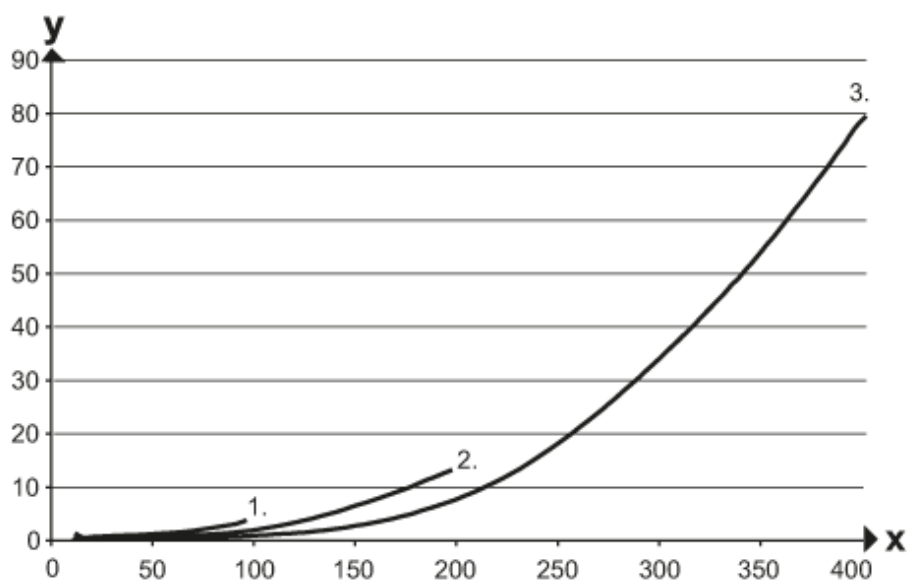
Cable: 12 m, PVC; 4 x 0.14 mm²

Connection



Diagrams and graphs

Background suppression chart



x: distance sensor/object [mm]

y: min. distance object/background [mm]

1 = object black (6 % remission) , Background white (90 % remission)

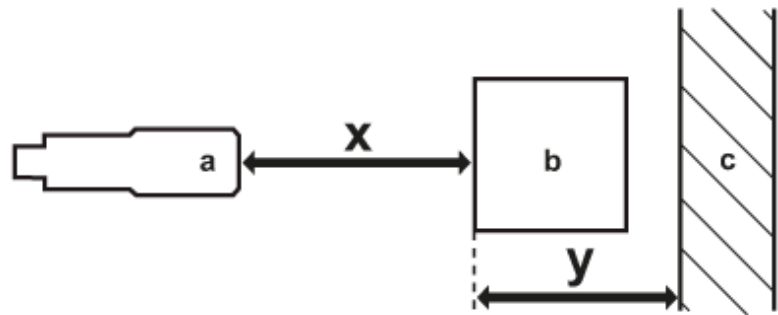
2 = object grey (18 % remission) , Background white (90 % remission)

3 = object white (90 % remission) , Background white (90 % remission)



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a: sensor

b: object

c: background

x: distance sensor/object [mm]

y: min. distance object/background [mm]