

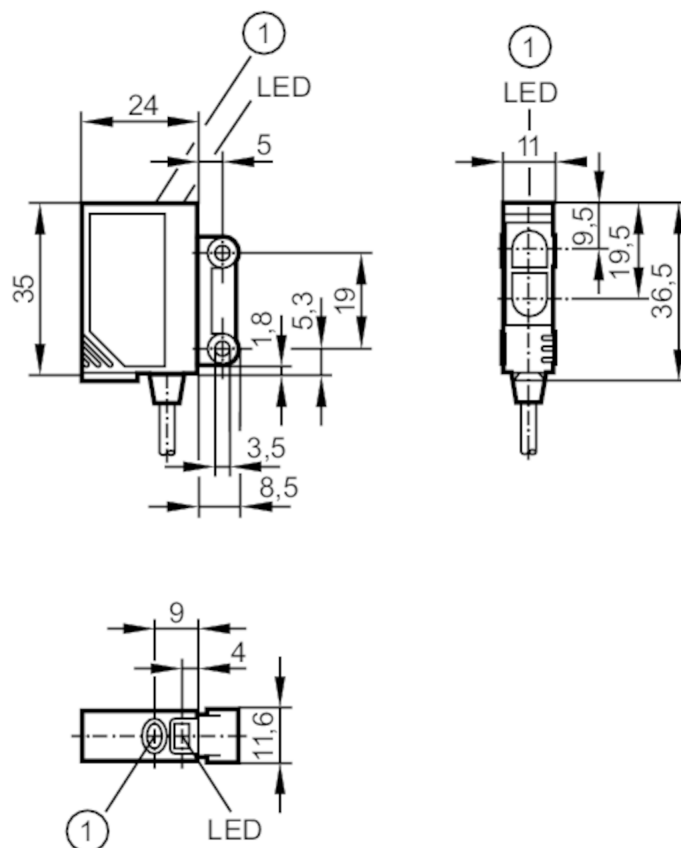
Diffuse reflection sensor with background suppression

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

Special feature	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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Diffuse reflection sensor with background suppression

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Output function		light-on/dark-on mode; (parameterisable)	
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		pulsed	
Overload protection		yes	
Detection zone			
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	
Mechanical data			
Weight [g]		0.241	
Housing		rectangular	
Dimensions [mm]		35 x 11 x 24	
Materials		housing: ABS; LED window: SEPS; pushbutton: SEPS	
Lens material		PMMA	
Lens alignment		side lens	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		operation	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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Electrical connection

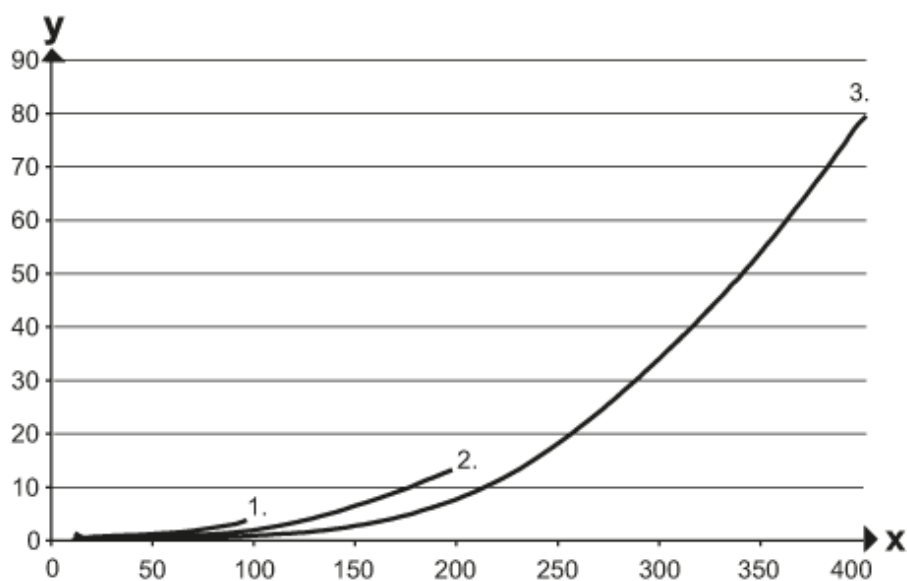
Cable: 12 m, PVC; 4 x 0.14 mm²

Connection



Diagrams and graphs

accuracy graph



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]