

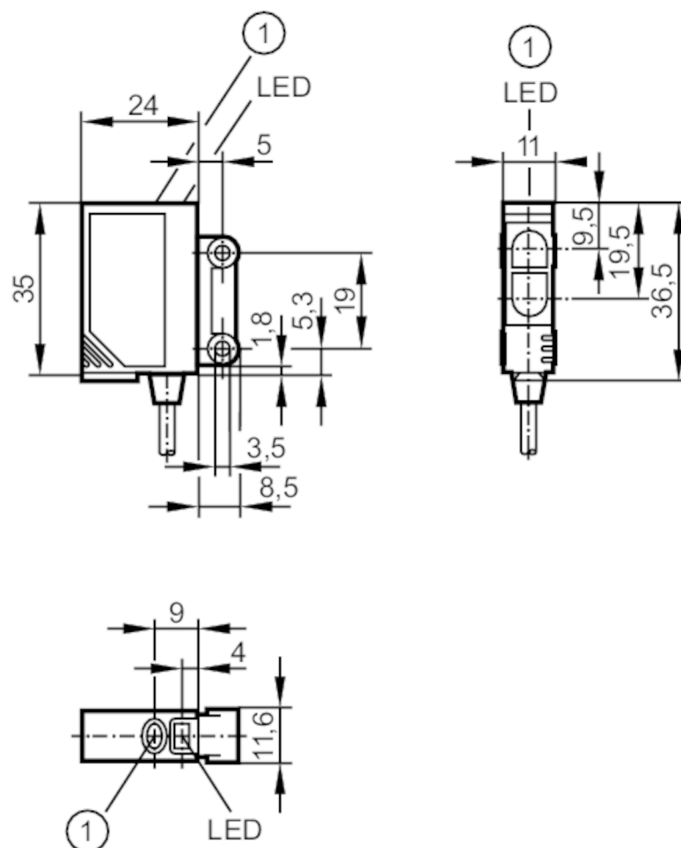
Diffuse reflection sensor with background suppression

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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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	
Аксессуары		
Items supplied	screws: 2	
	spring washers: 2	
	Nuts: 2	
Remarks		
Pack quantity	1 pcs.	

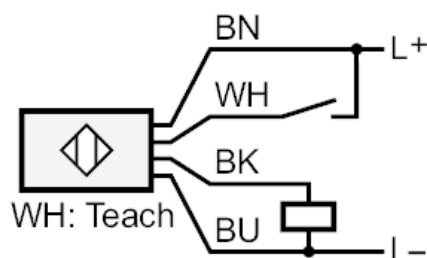
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Electrical connection

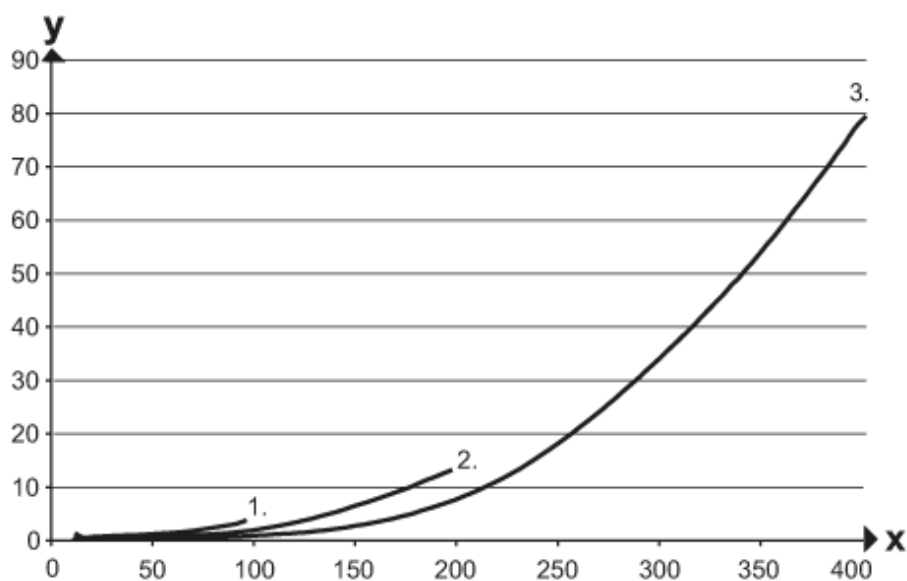
Cable: 12 m, PVC; 4 x 0.14 mm²

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)

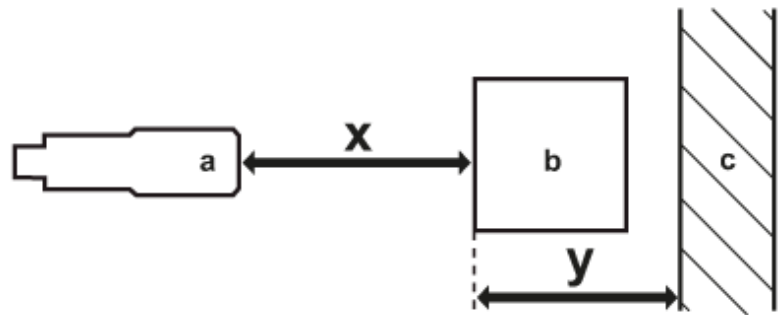
2 = object grey (18 % remission) , background white (90 % remission)

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]