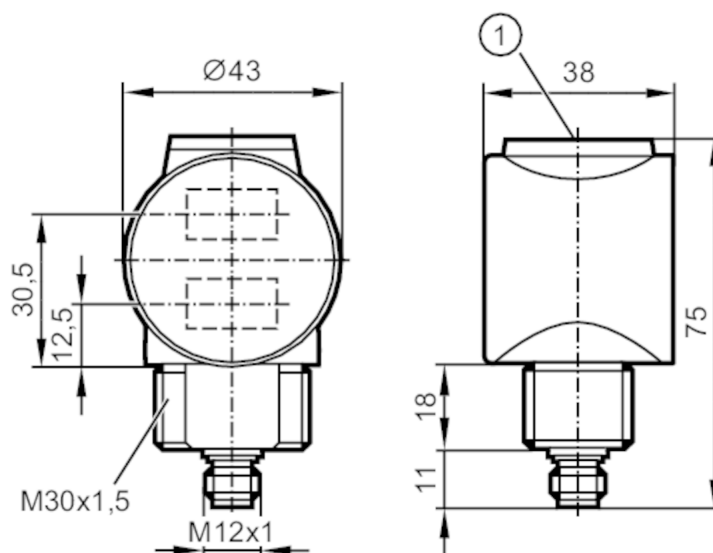




Diffuse reflection sensor with background suppression

OIH-HNKG/US/800MM

Article no longer available - archive entry



1 potentiometer



Product characteristics

Type of light red light

Application

Special feature Background suppression

Function principle Diffuse reflection sensor

Electrical data

Operating voltage [V] 10...30 DC; ("supply class 2" to cULus)

Current consumption [mA] 35

Protection class III

Reverse polarity protection yes

Type of light red light

Wave length [nm] 625

Outputs

Electrical design NPN

Output function light-on mode

Max. voltage drop switching output DC [V] 2.5

Permanent current rating of switching output DC [mA] 200

Switching frequency DC [Hz] 300

Short-circuit protection yes

Type of short-circuit protection pulsed

Overload protection yes



Diffuse reflection sensor with background suppression

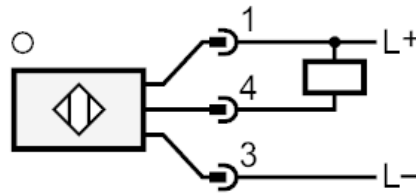
OIH-HNKG/US/800MM

Detection zone		
Range	[mm]	50...800; (white or black paper 200 x 200 mm +/- 6 %)
Range adjustable		no
Max. light spot diameter	[mm]	55
Light spot dimensions refer to		at maximum 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]	201.2
Dimensions	[mm]	64 x 43 x 38
Thread designation		M30 x 1.5
Materials		diecast zinc nickel-plated
Lens material		PMMA
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
Аксессуары		
Items supplied	lock nut: 1	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12; coding: A		
		

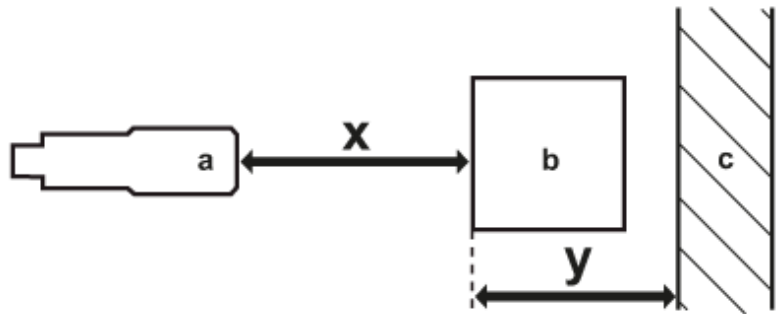
Diffuse reflection sensor with background suppression

OIH-HNKG/US/800MM

Connection



Diagrams and graphs



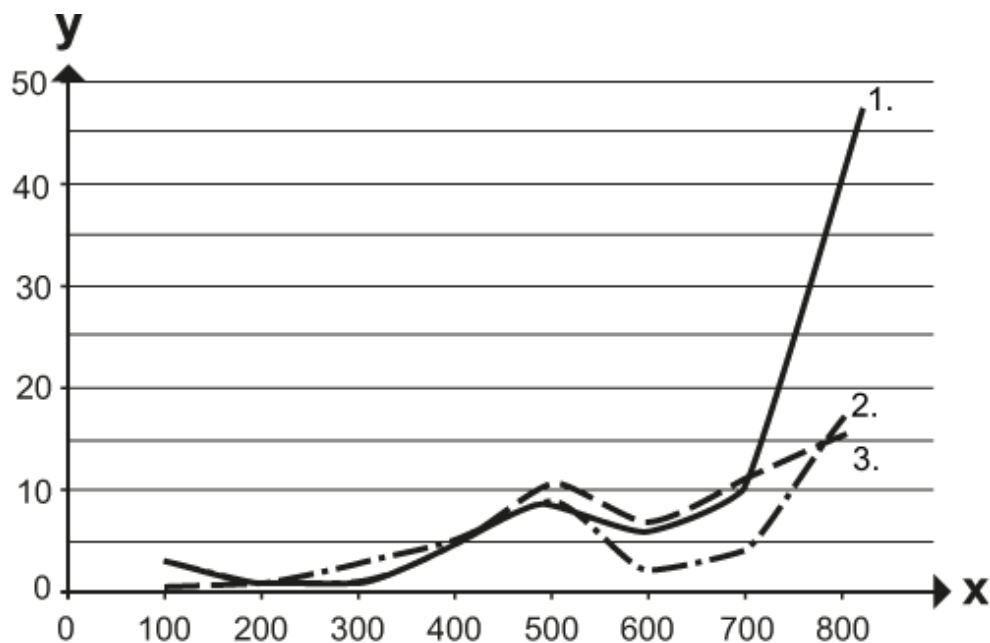
- a: sensor
- b: object
- c: background
- x: distance sensor/object [mm]
- y: min. distance object/background [mm]



Diffuse reflection sensor with background suppression

OIH-HNKG/US/800MM

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)