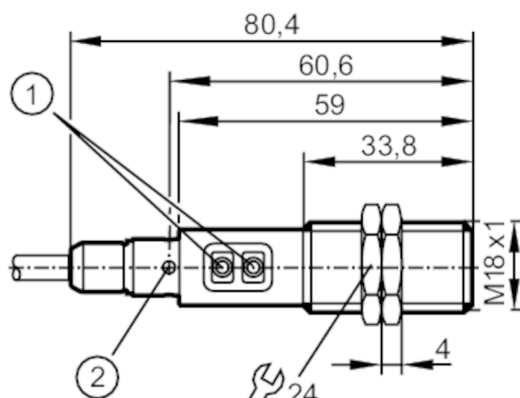




Diffuse reflection sensors with background suppression

OGH-FPKG/2M



- 1 Programming buttons
- 2 LED 4 x 90°



Product characteristics

Type of light	red light
Housing	Threaded type

Application

System	Background suppression
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	25
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	624

Outputs

Electrical design		PNP
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	150; (200 (...60 °C))
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...300; (white paper 200 x 200 mm 90 % remission)
Range on white object (90 % remission)	[mm]	15...300

OGH501



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Range on grey object (18 % remission) [mm]	15...290
Range on black object (6 % remission) [mm]	15...190
Factory setting	light-on mode
Range adjustable	yes
Max. light spot diameter [mm]	25
Light spot dimensions refer to	at maximum range
Background suppression available	yes
Operating conditions	
Ambient temperature [°C]	-25...80
Protection	IP 67
Tests / approvals	
EMC	EN 60947-5-2
MTTF [years]	362
Mechanical data	
Weight [g]	124.7
Housing	Threaded type
Dimensions [mm]	M18 x 1 / L = 80.4
Thread designation	M18 x 1
Material	stainless steel (1.4404 / 316L); PA; LCP; EPDM; TPU (urethane)
Lens material	PMMA
Displays / operating elements	
Display	Switching status 1 x LED, yellow
Teach function	yes
Electronic lock	yes
Accessories	
Items supplied	lock nuts: 2
Remarks	
Remarks	cULus - Class 2 source required
Pack quantity	1 pcs.



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Electrical connection

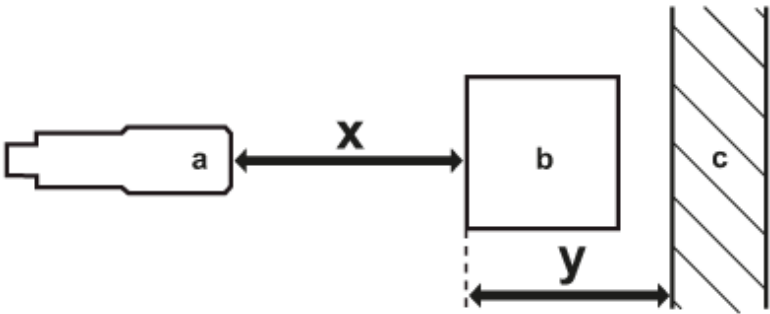
Cable: 2 m, PUR; 3 x 0.34 mm²

Connection



Core colors :
BK = black
BN = brown
BU = blue

Diagrams and graphs



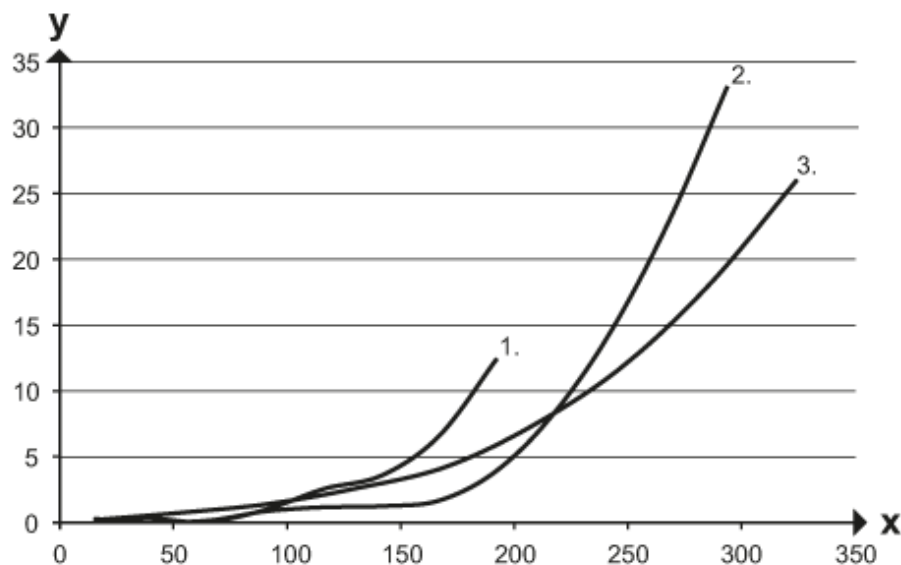
a: sensor
b: object
c: background
x: distance sensor/object [mm]
y: min. distance object/background [mm]



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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)