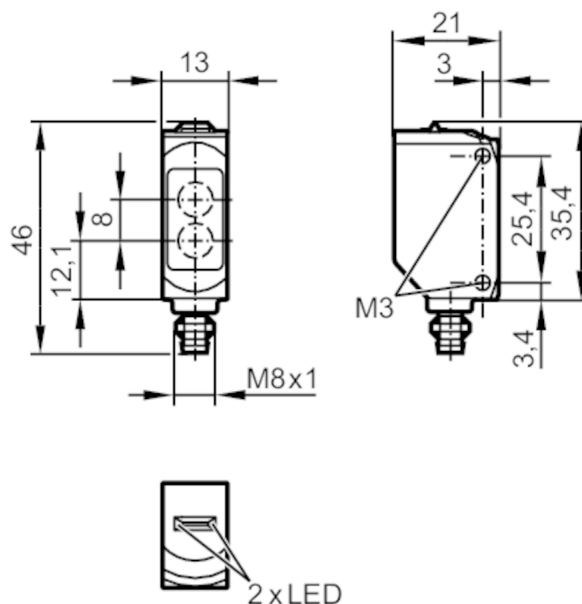


O6H212



Diffuse reflection sensor with background suppression

O6H-HPKG/AS/4P



receiver in upper lens
transmitter in lower lens



Product characteristics

Type of light	red light
Housing	rectangular
Dimensions [mm]	46 x 13 x 21

Application

Special feature	Background suppression
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	22; ((24 V))
Protection class	III
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	633



Diffuse reflection sensor with background suppression

O6H-HPKG/AS/4P

Outputs		
Electrical design		PNP
Output function		light-on mode
Max. voltage drop switching output DC [V]		2.5
Permanent current rating of switching output DC [mA]		100
Switching frequency DC [Hz]		1000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Detection zone		
Range [mm]	< 200; (white paper 200 x 200 mm)	
Range on white object (90 % remission) [mm]	< 200	
Range on grey object (18 % remission) [mm]	4...200	
Range on black object (6 % remission) [mm]	8...200	
Max. light spot diameter [mm]	8	
Light spot dimensions refer to	at maximum range	
Background suppression available	yes	
Operating conditions		
Ambient temperature [°C]	-25...60	
Protection	IP 65; IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	1113	
UL approval	UL Approval no.	E001
Mechanical data		
Weight [g]	13.1	
Housing	rectangular	
Dimensions [mm]	46 x 13 x 21	
Materials	housing: ABS; PPSU; connector thread: brass coated; Sealing: EPDM	
Lens material	PMMA	
Lens alignment	side lens	
Material nut	brass, coated	
Tightening torque [Nm]	0.5	
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
Remarks		
Remarks	operating voltage "supply class 2" according to cULus	
Pack quantity	1 pcs.	

Diffuse reflection sensor with background suppression

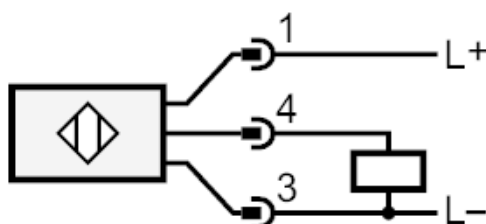
O6H-HPKG/AS/4P

Electrical connection

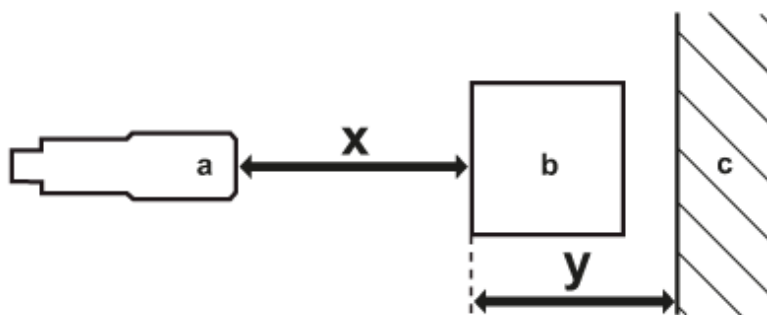
Connector: 1 x M8; Locking: brass, coated



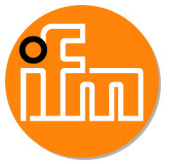
Connection



Diagrams and graphs



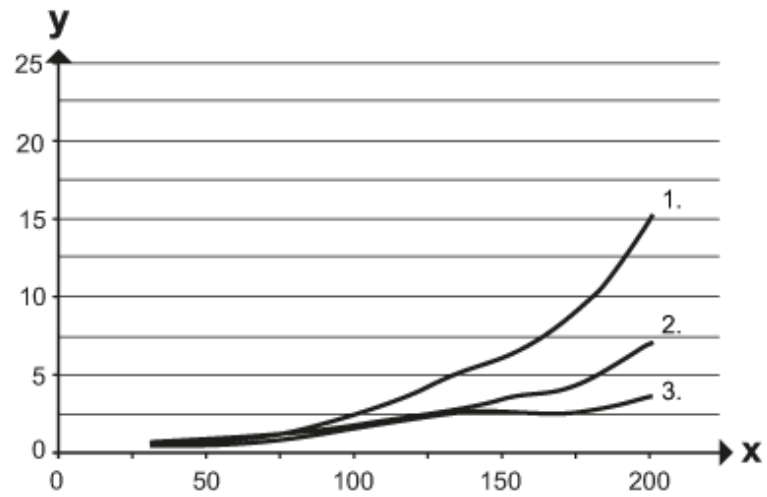
- a: sensor
- b: object
- c: background
- x: distance sensor/object [mm]
- y: min. distance object/background [mm]



Diffuse reflection sensor with background suppression

O6H-HPKG/AS/4P

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)