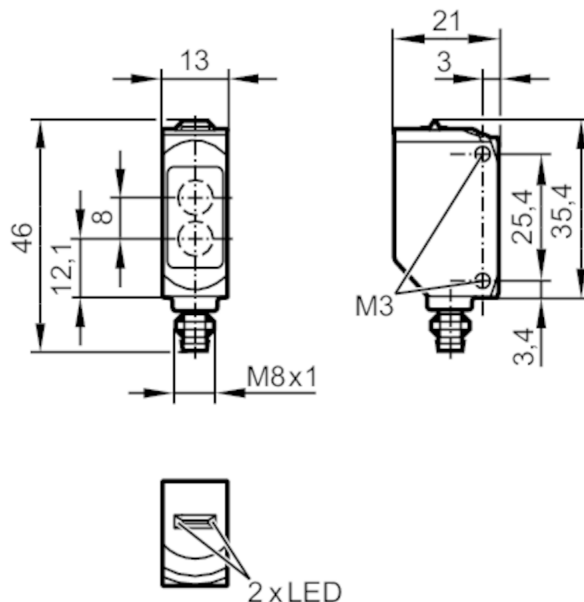


O6H214



Diffuse reflection sensor with background suppression

O6H-HNKG/AS/4P



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]	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

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]	100
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		pulsed

O6H214



Diffuse reflection sensor with background suppression

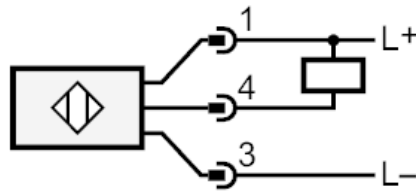
O6H-HNKG/AS/4P

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	[ANN]	1113
UL approval	UL Approval no.	E001
Mechanical data		
Weight	[g]	14.4
Housing		rectangular
Dimensions	[mm]	46 x 13 x 21
Materials		housing: ABS; PPSU
Lens material		PMMA
Lens alignment		side lens
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.	
Electrical connection		
Connector: 1 x M8; coding: A; Locking: brass, coated		
		

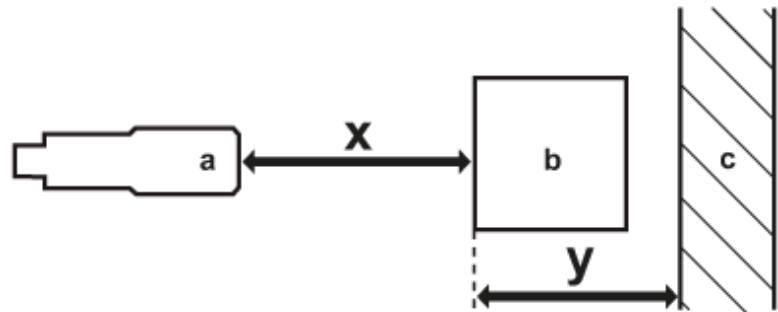
Diffuse reflection sensor with background suppression

O6H-HNKG/AS/4P

Connection



Diagrams and graphs



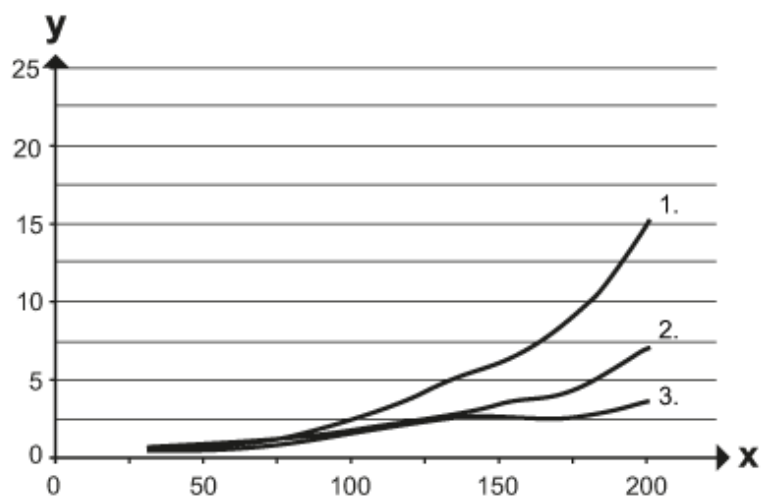
- a: sensor
- b: object
- c: background
- x: distance sensor/object [mm]
- y: min. distance object/background [mm]



Diffuse reflection sensor with background suppression

O6H-HNKG/AS/4P

accuracy graph



x: distance sensor/object [mm]

y: min. distance object/background [mm]

1 = object black (6 % remission) , Фон білий (90 % ремісія)

2 = object grey (18 % remission) , Фон білий (90 % ремісія)

3 = object white (90 % remission) , Фон білий (90 % ремісія)