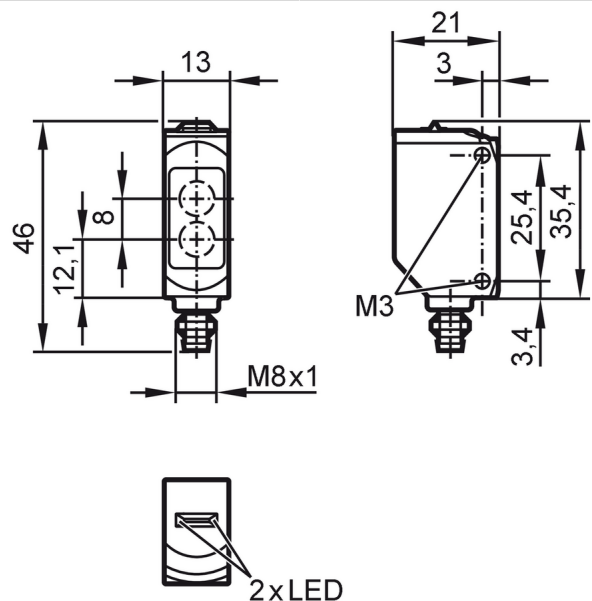


O6H213



Diffuse reflection sensors 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
Application		Industrial applications
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		yes (non-latching)



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Monitoring range		
Range	[mm]	< 100; (white paper 200 x 200 mm)
Range on white object (90 % remission)	[mm]	< 100
Range on grey object (18 % remission)	[mm]	4...100
Range on black object (6 % remission)	[mm]	8...100
Max. light spot diameter	[mm]	6
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	Ta	-25...40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	UL approval number	E001
Mechanical data		
Weight	[g]	13.1
Housing		rectangular
Dimensions	[mm]	46 x 13 x 21
Material		housing: ABS orange; upper part of the housing: PPSU black
Lens material		front lens:PMMA
Lens alignment		Side sensing
Sealing material		EPDM
Tightening torque	[Nm]	0.5
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
Remarks		
Remarks		cULus - Class 2 source required
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M8; coding: A; Contacts: 4; Locking: brass, coated; sealing: EPDM		

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Connection

