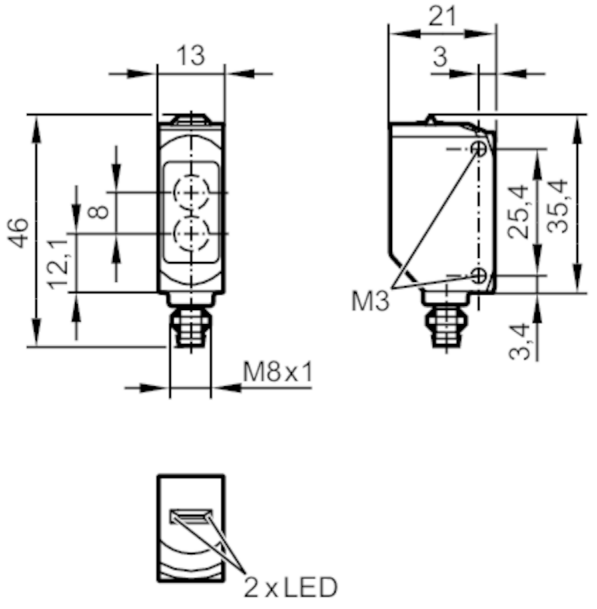
O6H213

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		
System		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		yes (non-latching)

O6H213

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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; PPSU
Lens material		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; Locking: brass, coated; sealing: EPDM

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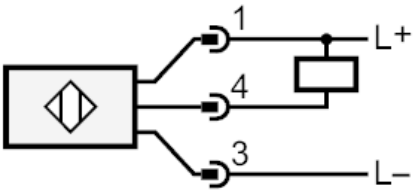
Connection