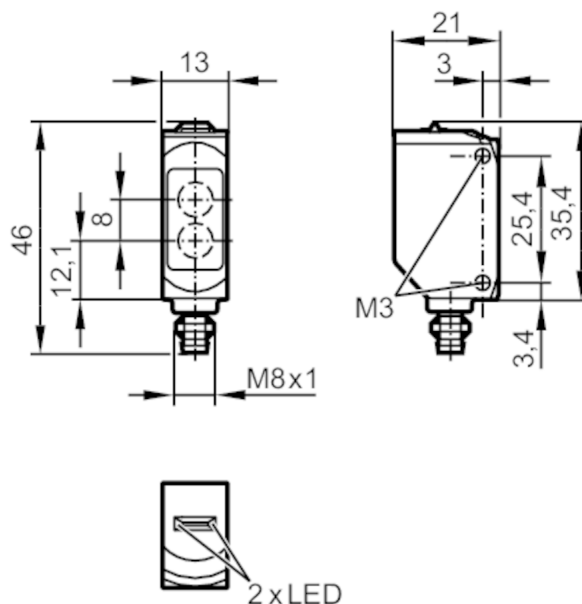


O6H213



Diffuse reflection sensor with background suppression

O6H-HNKG/AS/4P



receiver in upper lens
transmitter in lower lens



Application

Function principle	Diffuse reflection sensor
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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



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Detection zone		
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		UL Approval no. E001
Mechanical data		
Weight	[g]	14.4
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
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; Locking: brass, coated		

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Connection

