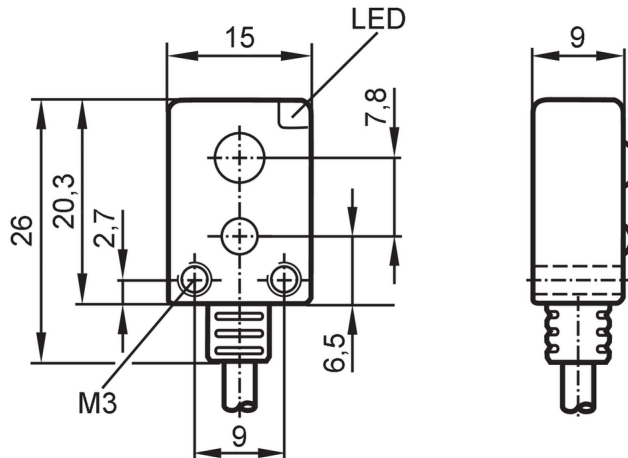


O7H208



Diffuse reflection sensors with background suppression

O7H-HNKG/0,20M/AS



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	For applications in robotics, assembly and handling technology
Electrical data	
Operating voltage [V]	10...30 DC; (UL - Class 2 source required)
Current consumption [mA]	20; ((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]	750
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Monitoring range	
Range [mm]	5...50; (white paper 200 x 200 mm)
Range on white object (90 % remission) [mm]	5...50

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Range on grey object (18 % remission) [mm]	6...48
Range on black object (6 % remission) [mm]	7...46
Range adjustable	no
Max. light spot diameter [mm]	2.5
Light spot dimensions refer to	at maximum range
Background suppression available	yes

Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 65

Tests / approvals

EMC	EN 60947-5-2
MTTF [years]	1610

Mechanical data

Weight [g]	14.5
Housing	rectangular
Dimensions [mm]	20.3 x 15 x 9
Material	housing: PA
Lens material	front lens:PMMA
Lens alignment	Side sensing
Tightening torque [Nm]	0.5

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Remarks

Pack quantity	1 pcs.
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Electrical connection

Cable: 0.2 m, PUR; 3 x 0.14 mm²

Connector: 1 x M8; coding: A; Contacts: 3; Locking: snap-fit



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Connection

