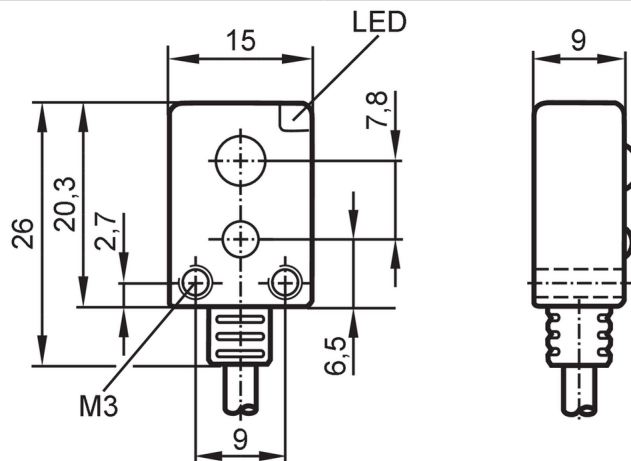


# O7H201



## Diffuse reflection sensor with background suppression

O7H-DPKG/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; ("supply class 2" according to UL)
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		PNP
Output function		dark-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		pulsed

### Detection zone

Range	[mm]	5...30; (white paper 200 x 200 mm)
Range on white object (90 % remission)	[mm]	5...30

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Range on grey object (18 % remission) [mm]	6...30
Range on black object (6 % remission) [mm]	7...29
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]	14.4
Housing	rectangular
Dimensions [mm]	20.3 x 15 x 9
Materials	housing: PA
Lens material	front pane: PMMA
Lens alignment	side lens
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 mm<sup>2</sup>

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





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### Connection

