

# O7H207



## Diffuse reflection sensors with background suppression

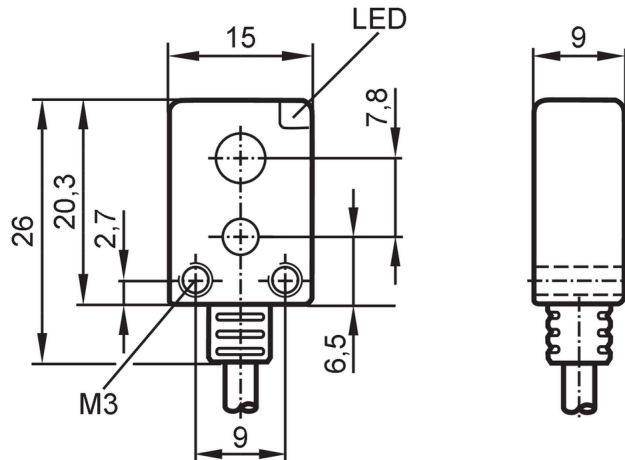
O7H-DNKG/0,20M/AS

Article to be discontinued

Discontinuation date: 03/31/2026

Alternative articles: O7H201

When selecting an alternative article and accessories please note that technical data may differ!



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	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

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Type of short-circuit protection	yes (non-latching)	
<b>Monitoring range</b>		
Range [mm]	5...30; (white paper 200 x 200 mm)	
Range on white object (90 % remission) [mm]	5...30	
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	
<b>Operating conditions</b>		
Ambient temperature [°C]	-25...60	
Protection	IP 65	
<b>Tests / approvals</b>		
EMC	EN 60947-5-2	
MTTF [years]	1610	
<b>Mechanical data</b>		
Weight [g]	14.4	
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	
<b>Displays / operating elements</b>		
Display	Switching status	1 x LED, yellow
<b>Remarks</b>		
Pack quantity	1 pcs.	
<b>Electrical connection</b>		
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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