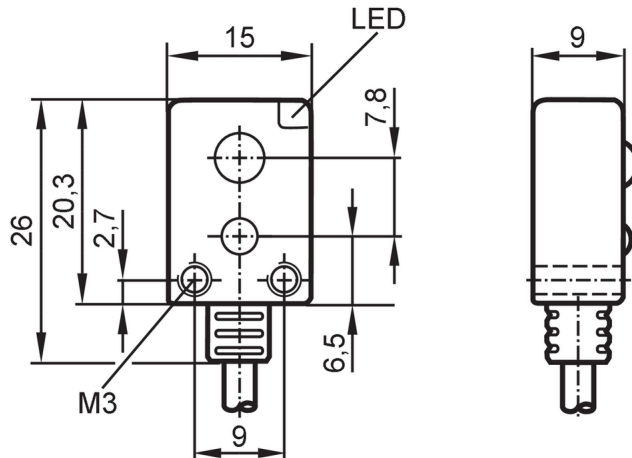


O7H203



Diffuse reflection sensors 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

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		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		yes (non-latching)

Monitoring range

Range	[mm]	5...50; (white paper 200 x 200 mm)
Range on white object (90 % remission)	[mm]	5...50
Range on grey object (18 % remission)	[mm]	6...48

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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]	14.4
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

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Remarks	
Pack quantity	1 pcs.

Electrical connection

Cable: 0.2 m, PUR; 3 x 0.14 mm²

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



Connection

