

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

System	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

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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]	14.4
Housing		rectangular
Dimensions	[mm]	20.3 x 15 x 9
Material		PA
Lens material		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; Locking: snap-fit



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Connection

