



Diffuse reflection sensor with background suppression

O7H-DNKG/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; ("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		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
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	[ANN]	1610

Mechanical data

Weight	[g]	14.4
Housing		rectangular
Dimensions	[mm]	20.3 x 15 x 9
Materials		PA
Lens material		PMMA
Lens alignment		side lens

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



O7H207



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Connection

