



Diffuse reflection sensor with background suppression

OGH-DBOW/LS/CUBE/100MM

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Product characteristics

Type of light	red light
Housing	rectangular with M18 thread

Application

Special feature	Background suppression
Function principle	Diffuse reflection sensor

Electrical data

Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...250 AC
Protection class		II; (double insulated)
Type of light		red light
Wave length	[nm]	633

Outputs

Output function		dark-on mode
Max. voltage drop switching output AC	[V]	8
Minimum load current	[mA]	5
Max. leakage current	[mA]	1.7
Permanent current rating of switching output AC	[mA]	150; (200 (...40 °C))
Short-time current rating of switching output	[mA]	1200; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	20
Short-circuit protection		no
Overload protection		no

Detection zone

Range	[mm]	< 100; (white paper 200 x 200 mm 90% remission)
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Range adjustable	no
Max. light spot diameter [mm]	11
Light spot dimensions refer to	at maximum range
Background suppression available	yes

Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 67

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011 emission	class B

Mechanical data

Weight [g]	60.8
Housing	rectangular with M18 thread
Dimensions [mm]	52.6 x 19.1 x 36.9
Thread designation	M18 x 1
Materials	diecast zinc; PEI
Lens material	PMMA
Lens alignment	side lens

Displays / operating elements

Display	switching status	1 x LED, yellow
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Electrical connection

Required protection	miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
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Accessories

Items supplied	lock nut: 1
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Remarks

Remarks	Do not connect without a load.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x 1/2"; coding: C

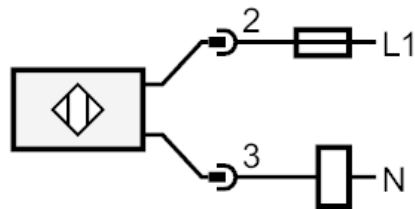




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Connection



Note : miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting