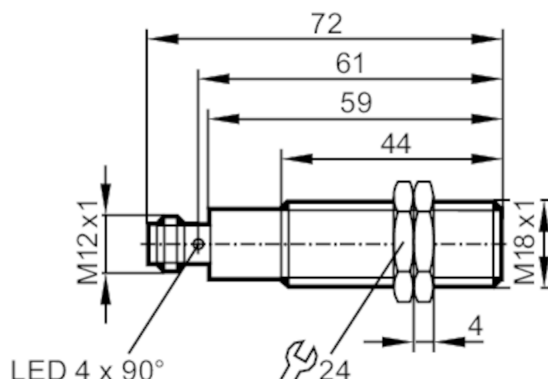




Diffuse reflection sensor with background suppression

OGH-HPKG/US100



receiver in upper lens



Product characteristics

Type of light	red light
Housing	threaded type

Application

Special feature	Background suppression
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	25
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	624

Outputs

Electrical design		PNP
Output function		light-on mode
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	150; (200 (...60 °C))
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Range	[mm]	< 300; (white paper 200 x 200 mm 90% remission)
Range on white object (90 % remission)	[mm]	< 300
Range on grey object (18 % remission)	[mm]	< 270



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Range on black object (6 % remission) [mm]	< 190
Range adjustable	no
Max. light spot diameter [mm]	25
Light spot dimensions refer to	Range
Background suppression available	yes

Operating conditions

Ambient temperature [°C]	-25...80
Protection	IP 65; IP 67; IP 68; IP 69K

Tests / approvals

EMC	EN 60947-5-2
MTTF [years]	372

Mechanical data

Weight [g]	58.7
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 72
Thread designation	M18 x 1
Materials	housing: stainless steel (316L/1.4404); Sealing: EPDM
Lens material	PMMA

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Remarks	operating voltage "supply class 2" according to cULus
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A





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Connection

