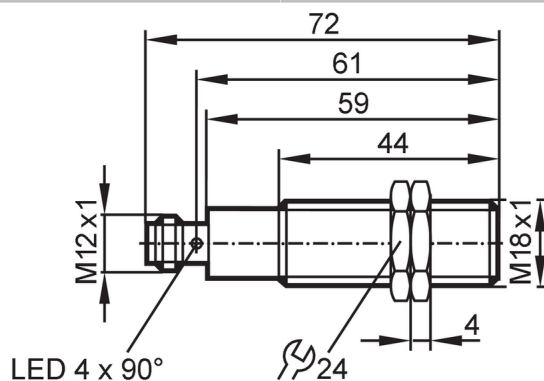




Diffuse reflection sensors with background suppression

OGH-HPKG/US100



transmitter in lower lens
Receiver in upper lens



Product characteristics

Type of light	red light
Housing	Threaded type

Application

Special feature	Background suppression
Function principle	Diffuse reflection sensor
Application	food and beverage industry

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	yes (non-latching)
Overload protection	yes

Monitoring range

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



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Range on black object (6 % remission)	[mm]	< 190
Range adjustable		no
Max. light spot diameter	[mm]	17
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]	59.3
Housing		Threaded type
Dimensions	[mm]	M18 x 1 / L = 72
Thread designation		M18 x 1
Material		housing: stainless steel (1.4404 / 316L); sealing: EPDM
Lens material		front lens: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		cULus - Class 2 source required
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4



Connection

