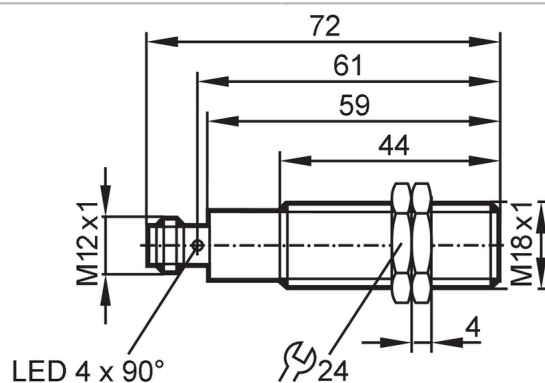




Diffuse reflection sensors with background suppression

OGH-DPKG/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	dark-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]	< 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]	59.2
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

