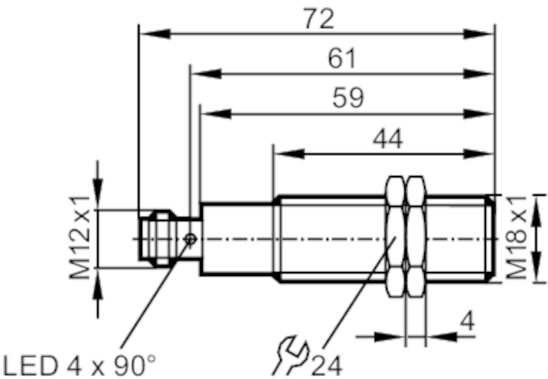




Diffuse reflection sensors with background suppression

OGH-DPKG/US100



transmitter in lower lens
Receiver in upper lens



Product characteristics		
Type of light		red light
Housing		Threaded type
Application		
System		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		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



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Range on grey object (18 % remission) [mm]	< 270
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	PMMA

Displays / operating elements		
Display	Switching status	1 x LED, yellow

Accessories	
Items supplied	lock nuts: 2

Remarks	
Remarks	cULus - Class 2 source required
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A





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Connection

