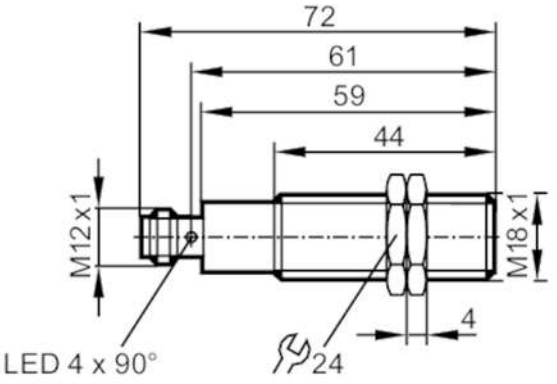
OGH300

Diffuse reflection sensor 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
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]	< 100; (white paper 200 x 200 mm 90% remission)
Range on white object (90 % remission)	[mm]	< 100

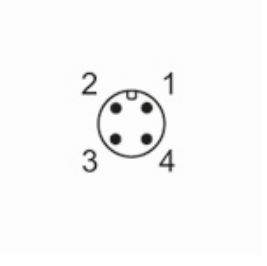
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Range on grey object (18 % remission) [mm]	< 100	
Range on black object (6 % remission) [mm]	< 100	
Range adjustable	no	
Max. light spot diameter [mm]	9	
Light spot dimensions refer to	Range	
Background suppression available	yes	
Operating conditions		
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]	54.5	
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
Accessories		
Items supplied	lock nuts: 2	
Remarks		
Remarks	operating voltage "supply class 2" according to cULus	
Pack quantity	1 pcs.	
Electrical connection		

Connector: 1 x M12; coding: A



OGH300

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Connection

