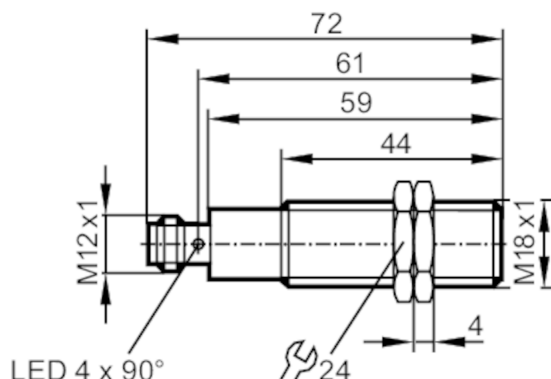




Diffuse reflection sensor with background suppression

OGH-HPKG/US100



transmitter in lower lens
receiver in upper lens



Application

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



Diffuse reflection sensor with background suppression

OGH-HPKG/US100

Detection zone		
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
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 67; IP 68; IP 69K
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	372
Mechanical data		
Weight	[g]	62
Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 72
Thread designation		M18 x 1
Materials		housing: stainless steel (1.4404 / 316L); Sealing: EPDM
Lens material		PMMA
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)		lock nuts: 2 x
Remarks		
Remarks		operating voltage "supply class 2" according to cULus
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12		
		



Diffuse reflection sensor with background suppression

OGH-HPKG/US100

Connection

