



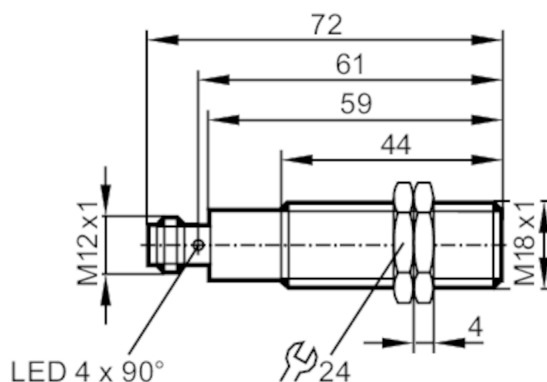
## Diffuse reflection sensor with background suppression

OGH-HPKG/US100

phase-out article

Alternative articles: OGH500

When selecting an alternative article and accessories please note that technical data may differ!



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

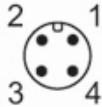
### Outputs

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]	< 100; (white paper 200 x 200 mm 90% remission)
Range on white object (90 % remission)	[mm]	< 100
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 67
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	362
Mechanical data		
Weight	[g]	60
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		
		



## Diffuse reflection sensor with background suppression

OGH-HPKG/US100

### Connection

