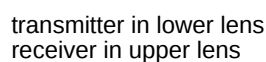


OGH-HPKG/US/V4A/CUBE/100MM



red light

rectangular with M18 thread

Diffuse reflection sensor

10...30 DC

3

2

v

3

red light

645

PNP

light-on mode

2.5

200

1000

yes

pulsed

< 100; (white paper 200 x 200 mm 90% remission)



Diffuse reflection sensor with background suppression

OGH-HPKG/US/IV4A/CUBE/100MM

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]	7
Light spot dimensions refer to	at maximum range
Background suppression available	yes

Interfaces

Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Measuring Sensor, Identification and Diagnosis, Switching Signal Channel, Teach Channel	
SIO mode	yes	
Required master port type	A	
Min. process cycle time [ms]	10	
IO-Link process data (cyclical)	function	bit length
	process value	16
	device status	4
	binary switching information	1
IO-Link functions (acyclical)	application specific tag; operating hours counter; switching cycles counter	
Supported DeviceIDs	Type of operation	DeviceID
	default	1131
Note	For further information please see the IODD PDF file under "Downloads"	

Operating conditions

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...80
Protection	IP 65; IP 67; IP 68; IP 69K

Tests / approvals

EMC	EN 60947-5-2	
MTTF [years]	782	
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	power supply	Class 2
	File number UL	E174191

Mechanical data

Weight [g]	74.65
Housing	rectangular with M18 thread
Dimensions [mm]	52.9 x 20 x 35.9
Thread designation	M18 x 1
Materials	stainless steel (630/1.4542/17-4 PH); PEI
Lens material	PEI

OGH380



Diffuse reflection sensor with background suppression

OGH-HPKG/US/V4A/CUBE/100MM

Lens alignment	side lens
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Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	1 x LED, green

Accessories

Items supplied	lock nut: 1
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Remarks

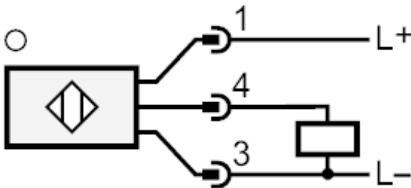
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection





Diffuse reflection sensor with background suppression

OGH-HPKG/US/V4A/CUBE/100MM

Other data

Repeatability / precision: 6 σ

	repeatability of the measured values	
Abstand	white (90 % remission)	black (6 %...90 % remission)
20 mm	0.5 mm	1.0 mm
50 mm	0.8 mm	2.0 mm
100 mm	1.5 mm	4.5 mm
	accuracy	
Abstand	white (90 % remission)	black (6 %...90 % remission)
20 mm	± 1.5 mm	± 1.8 mm
50 mm	± 3.0 mm	± 3.5 mm
100 mm	± 5.0 mm	± 6.5 mm

The values apply at		
Extraneous light on the object	< 10 klx	
constant ambient conditions	23 °C / 960 hPa	
minimum power-on time in minutes	10	