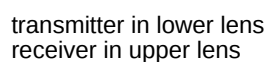


OGH-HNKG/US/V4A/CUBE/200MM



red light

rectangular with M18 thread

Diffuse reflection sensor

10...30 DC

25

III

yes

ed lic

645

NPN

light-on mode

2.5

200

1000

yes

pulsed

yes

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



Diffuse reflection sensor with background suppression

OGH-HNKG/US/IV4A/CUBE/200MM

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]	13
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	1139
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 [ANN]	782	
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	подача напруги	Class 2
	File number UL	E174191

Mechanical data

Weight [g]	74.5
Housing	rectangular with M18 thread
Dimensions [mm]	52.9 x 20 x 35.9
Thread designation	M18 x 1
Materials	1.4542 (17-4 PH / 630); PEI
Lens material	PEI



Diffuse reflection sensor with background suppression

OGH-HNKG/US/V4A/CUBE/200MM

Lens alignment	side lens
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Displays / operating elements

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

Аксессуары

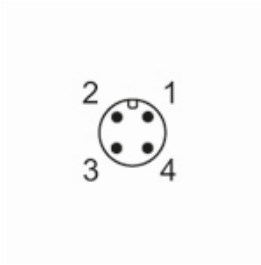
Items supplied	lock nut: 1, stainless steel
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Remarks

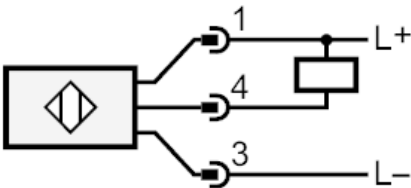
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection



4 OUT / IO-Link



Diffuse reflection sensor with background suppression

OGH-HNKG/US/IV4A/CUBE/200MM

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
150 mm	3.0 mm	9.0 mm
200 mm	6.0 mm	20.0 mm
	accuracy	
Abstand	white (90 % remission)	black (6 %...90 % remission)
20 mm	± 2.0 mm	± 2.5 mm
50 mm	± 3.5 mm	± 4.5 mm
100 mm	± 6.0 mm	± 7.5 mm
150 mm	± 7.5 mm	± 11.0 mm
200 mm	± 10.0 mm	± 17.0 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