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Product characteristics

Type of light	red light; green light; blue light
Housing	rectangular

Application

Application	colour recognition ; retro-reflective operation; diffuse reflection operation
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Electrical data

Operating voltage	[V]	12...30 DC; (Max. residual ripple: 5 Vss)
Current consumption	[mA]	80
Protection class		II
Type of light		red light; green light; blue light



Colour sensor

ODC-MNKG/US-100

Typ. lifetime	[h]	100000
Reference temperature for service life	[°C]	25

Outputs

Electrical design		NPN
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	300

Detection zone

Range	[m]	0.25...1; (retro-reflective operation)
Range	[mm]	< 60; (diffuse reflection operation ± 9)
Max. light spot diameter	[mm]	13
Light spot dimensions refer to		Range

Response times

Response time	[s]	< 2.5
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Operating conditions

Ambient temperature	[°C]	-10...55
Protection		IP 67
Max. immunity to extraneous light	[klx]	20

Tests / approvals

EMC	EN 60947-5-2	
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Mechanical data

Housing		rectangular
Dimensions	[mm]	53 x 30 x 80
Materials		diecast zinc
Lens material		glass

Displays / operating elements

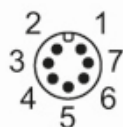
Display	operation	1 x LED, green
	function	1 x LED, yellow

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A

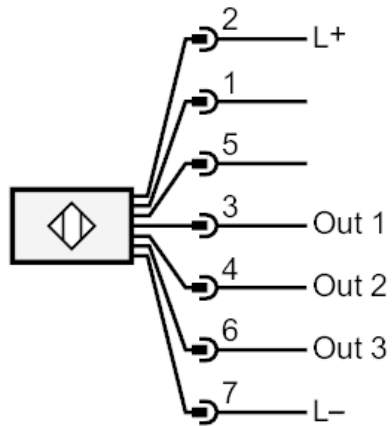




Colour sensor

ODC-MNKG/US-100

Connection



- | | |
|---|--------------------------|
| 1 | Austasteingang AT |
| 5 | Eingang "External Teach" |