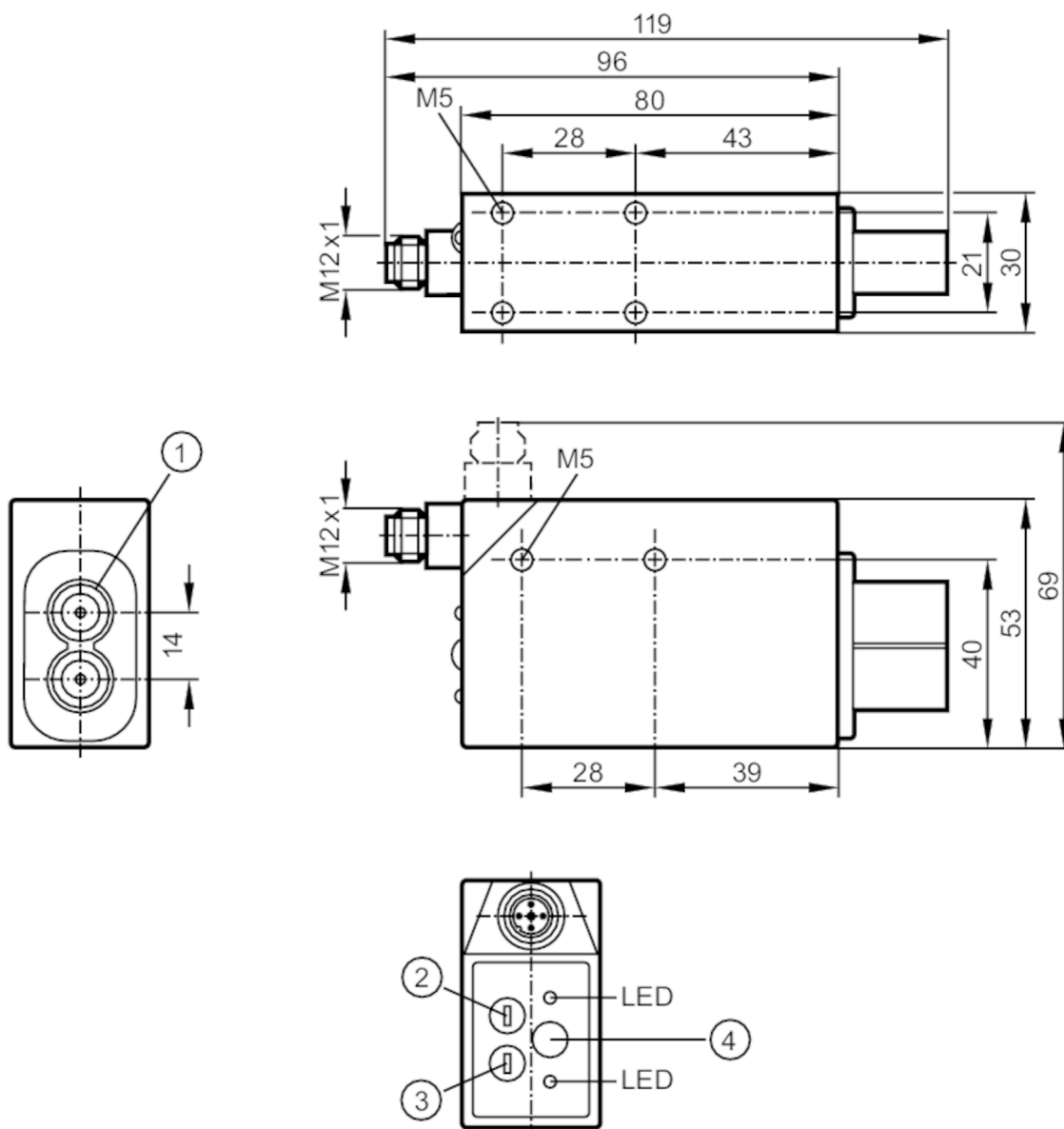


Colour sensor

ODF-MPKG/US

Article no longer available - archive entry



- 1 Lichtleiteradaption
- 2 Wahlschalter Farbtoleranz
- 3 Programmwahlschalter
- 4 Teach-Taste

Product characteristics

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

Application

Application	colour recognition
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Electrical data

Operating voltage	[V]	12...30 DC; (Max. residual ripple: 5 Vss)
Current consumption	[mA]	80



Colour sensor

ODF-MPKG/US

Protection class	II
Type of light	red light; green light; blue light
Typ. lifetime [h]	100000
Reference temperature for service life [°C]	25

Outputs

Electrical design	PNP
Max. voltage drop switching output DC [V]	2
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	1000

Detection zone

Range [m]	0.002...0.004; (Through-beam sensor)
Range [mm]	< 9; (in diffuse reflection mode)

Response times

Response time [s]	0.7
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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

Weight [g]	377
Housing	rectangular
Dimensions [mm]	53 x 30 x 103
Materials	diecast zinc

Displays / operating elements

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

Accessories

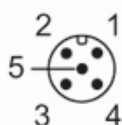
Items supplied	Lock nut: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection

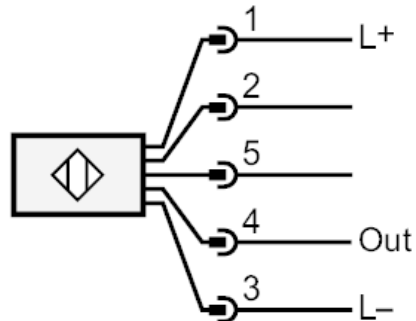
Connector: 1 x M12; coding: A



Colour sensor

ODF-MPKG/US

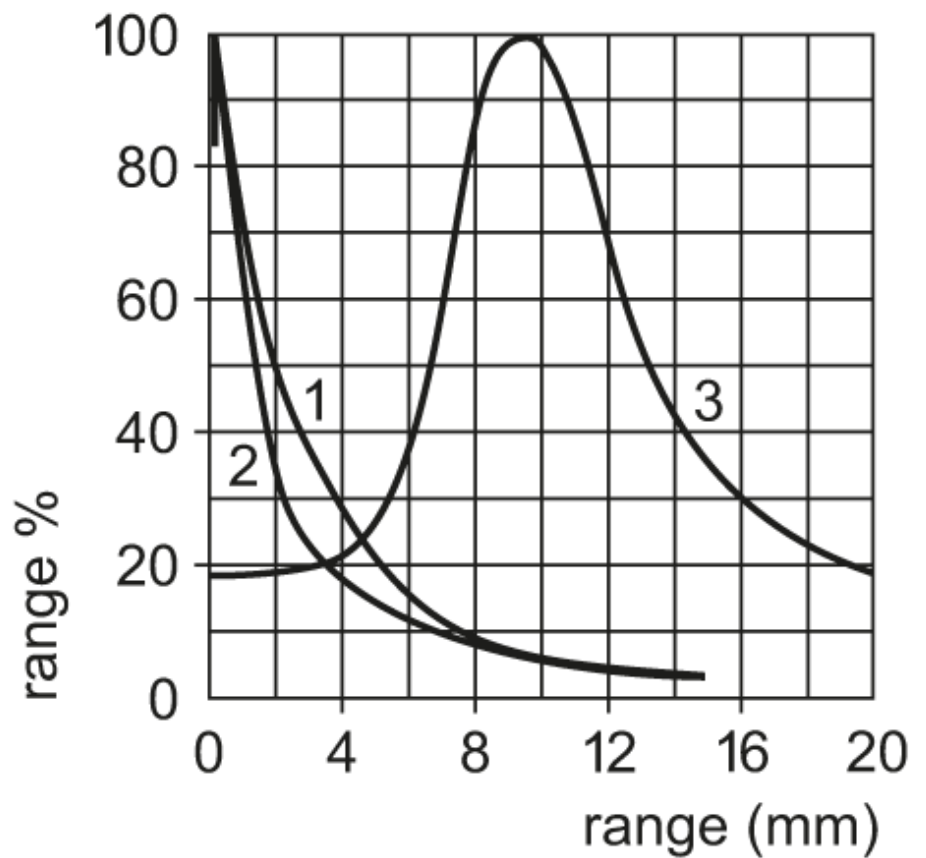
Connection



2	activation trigger AT
5	Eingang "External Teach"

Diagrams and graphs

accuracy graph



x: distance sensor/object [mm]

y: min. distance object/background [mm]

1 = object black (6 % remission) , background white (90 % remission)

2 = object grey (18 % remission) , background white (90 % remission)

3 = object white (90 % remission) , background white (90 % remission)

Note : range % = setting in % of the range