

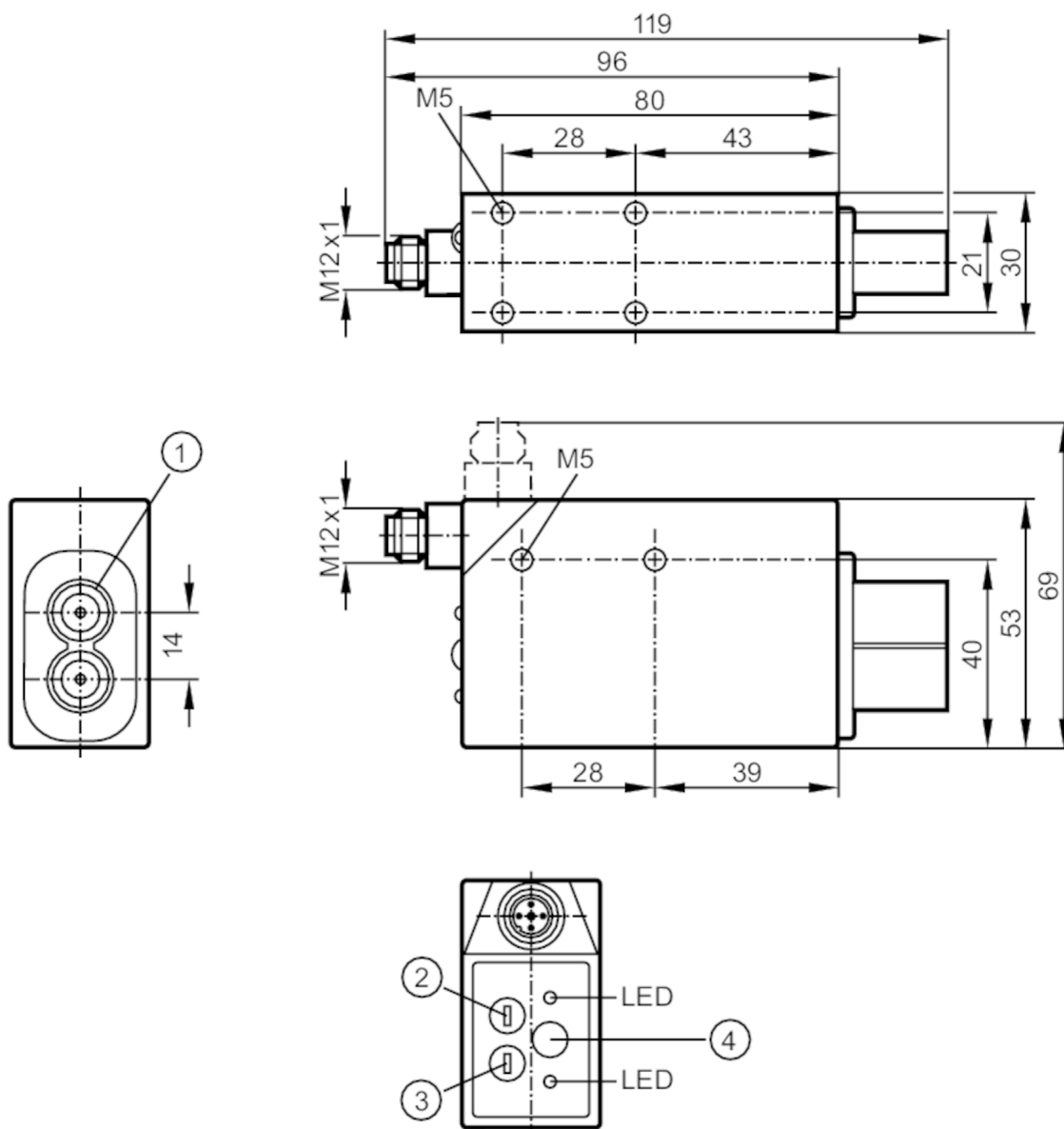
OD5014

Color sensor

ODC-MNKG/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	color recognition
-------------	-------------------

Electrical data

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

OD5014



Color sensor

ODC-MNKG/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	NPN
Max. voltage drop switching output DC [V]	2
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	1000

Monitoring range

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

Reaction times

Response time [s]	0.7
-------------------	-----

Operating conditions

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

Tests / approvals

EMC	EN 60947-5-2
-----	--------------

Mechanical data

Housing	rectangular
Dimensions [mm]	53 x 30 x 103
Material	diecast zinc

Displays / operating elements

Display	Power	1 x LED, green
	Function	1 x LED, yellow

Accessories

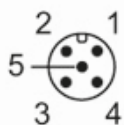
Items supplied	knurled nut: 2
----------------	----------------

Remarks

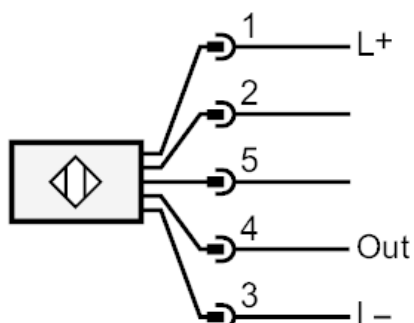
Pack quantity	1 pcs.
---------------	--------

Electrical connection

Connector: 1 x M12; coding: A



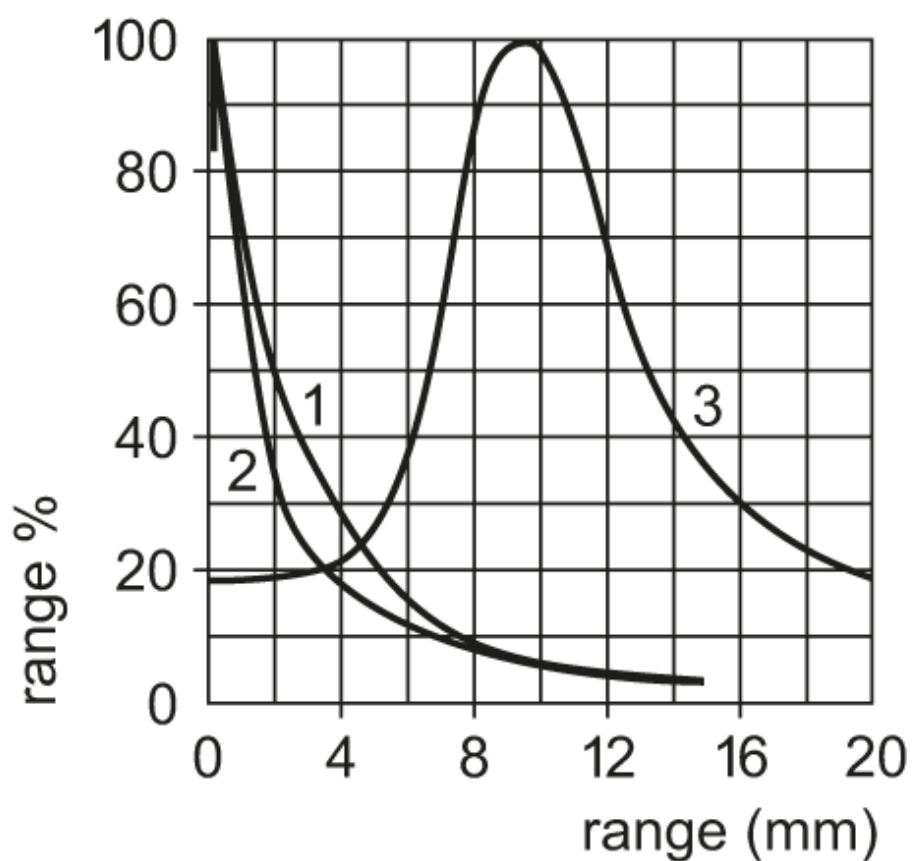
Connection



2	activation trigger AT
5	Eingang "External Teach"

Diagrams and graphs

Background suppression chart



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