

ODC300 SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Optical Data Transmission	CONNECTION TYPES (see table)
SIZE	100 x 156 x 110 mm	<ul style="list-style-type: none"> M12 connector
OPERATING DISTANCE	See table	A-coded
DETECTION MODE	Data Communication	D-coded



TECHNICAL DATA

OPERATING VOLTAGE	18 ... 30 V DC	INPUT	1 digital switch input
RIPPLE VOLTAGE	≤ 10 %	OUTPUT	1 digital switch output PNP / NPN, manually settable
LIGHT SOURCE	Red laser: 660 nm Infrared laser: 780 nm	HOUSING MATERIAL	Housing: aluminium alloy Front screen: glass
LASER CLASS	1 M	VOLTAGE WITHSTANDING	650 V/AC, 50/60 Hz, 60 s
LIGHT SPOT SIZE	1.75 m@100 m	REVERSE POLARITY PROTECTION	Yes
APERTURE ANGLE	1° (transmitter) 1.5° (receiver)	OVERLOAD RESISTANCE	Yes
TRANSMISSION SPEED	100 Mbit/s	SHORT CIRCUIT PROTECTION	Yes
TRANSMISSION INTERFACE	EtherCAT, EtherNet, PROFINET, PROFIsafe, TCP/IP	MTTF	47 years

ENVIRONMENTAL CONDITIONS

OPERATING ENVIRONMENT HUMIDITY	35 % to 85 % RH (no condensation)	INSULATION IMPEDENCE	≥20 MΩ (500 V DC)
PROTECTION CLASS	IP65	SHOCK RESISTANCE (EN 60068-2-27)	500 m/s ² (50 G) 3 times X, Y, Z respectively
STORAGE TEMPERATURE	-35 ... +70 °C	IMPACT RESISTANCE (EN 60068-2-6)	Complex amplitude 1.5 mm 10 ... 50 Hz (2hr X, Y, Z respectively)
AMBIENT TEMPERATURE	-20 ... +50 °C		

STANDARDS AND DIRECTIVES

EMC DIRECTIVE 2014/30/EU	EN IEC 60947-5-2	ROHS DIRECTIVE 2011/65/EU	EN IEC 63000
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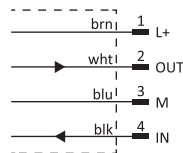
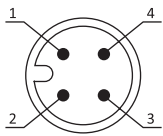
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DETECTION MODE DATA COMMUNICATION

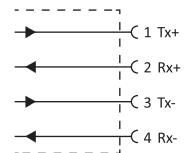
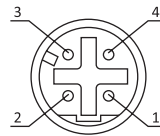
Article number		Operating distance	Light source	Output (wiring diagram)	Interface	Connection	Dimensions
ODC300-T120 (A+B)	ODC300-120ACBEN6Q12	0.3 ... 120 m	Red laser	NPN / PNP (WD1)	Ethernet (WD2)	M12 connector	see Fig. 1
	ODC300-120BCBEN6Q12	0.3 ... 120 m	Infrared laser	NPN / PNP (WD1)	Ethernet (WD2)	M12 connector	see Fig. 1

WIRING DIAGRAMS

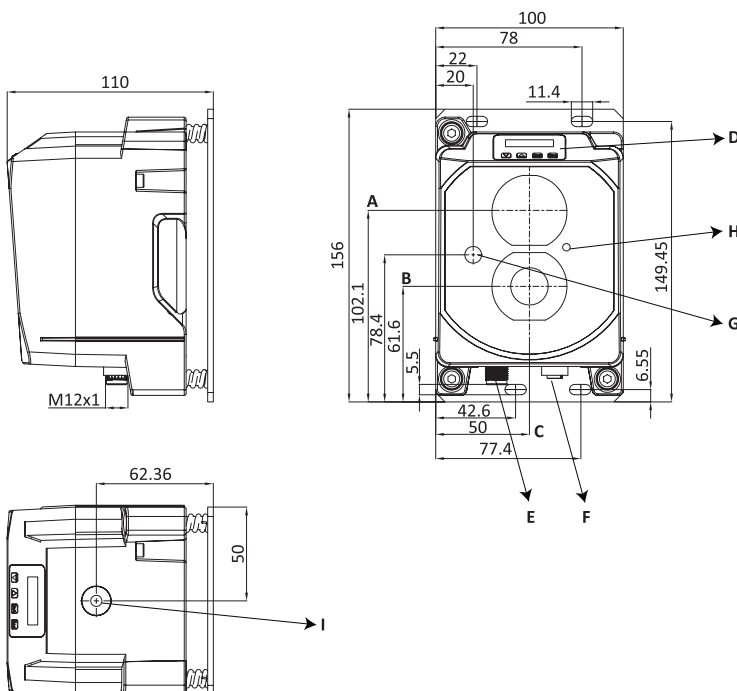
WD1



WD2



DIMENSIONS



- A: Central axis of the transmitter
- B: Central axis of the receiver
- C: Central axis of both transmitter and receiver
- D: Button-equipped display
- E: Power interface M12, 4-pin
- F: Ethernet M12, 4-hole
- G: Calibration laser
- H: Status indicator light
- I: Optical alignment assistance device

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