

OC10 SERIES

ARTICLE PROPERTIES

<b>SENSOR TYPE</b>	Fiber optic sensor	<b>CONNECTION TYPES</b> (see table)	
<b>FUNCTION TYPE</b>	High-performance single type	• Cable	PVC, 0.18 mm <sup>2</sup> , 2 m**
<b>OPERATING DISTANCE</b>	Depends on the fiber optic used	• M8 connector	
<b>DETECTION MODE</b>	Depends on the fiber optic used	** Other cable lengths are available on request	

TECHNICAL DATA

<b>OPERATING VOLTAGE</b>	10 ... 30 V DC	<b>RESPONSE TIME</b>	23 μs / 50 μs / 250 μs / 500 μs / 1 ms / 4 ms / 16 ms
<b>RIPPLE VOLTAGE</b>	≤ 10 %	<b>HOUSING MATERIAL</b>	PC
<b>LIGHT SOURCE</b>	Red 4-element LED (wavelength 660 nm)	<b>VOLTAGE WITHSTANDING</b>	650 V/AC, 50/60 Hz, 60 s
<b>OUTPUT</b>	PNP / NPN	<b>REVERSE POLARITY PROTECTION</b>	Yes
<b>SWITCHING MODE</b>	Light on / Dark on, switchable	<b>OVERLOAD RESISTANCE</b>	Yes (1 kV / 0.5 J)
<b>OUTPUT CURRENT</b>	≤ 100 mA (1-output), Total ≤ 100 mA (2-output)	<b>SHORT CIRCUIT PROTECTION</b>	Yes

ENVIRONMENTAL CONDITIONS

<b>OPERATING ENVIRONMENT HUMIDITY</b>	35 % to 85 % RH (no condensation)	<b>INSULATION IMPEDENCE</b>	≥ 50 MΩ (500 V DC)
<b>PROTECTION CLASS</b>	IP50	<b>SHOCK RESISTANCE (EN 60068-2-27)</b>	500 m/s <sup>2</sup> (50 G) 3 times X, Y, Z respectively
<b>STORAGE TEMPERATURE</b>	-40 ... +70 °C	<b>IMPACT RESISTANCE (EN 60068-2-6)</b>	Complex amplitude 1.5 mm 10 ... 50 Hz (2hr X, Y, Z respectively)
<b>AMBIENT TEMPERATURE</b>	-20 ... +55 °C	<b>ANTI-AMBIENT LIGHT</b>	Incandescent light: ≤ 20000 Lux Sunlight: ≤ 30000 Lux

STANDARDS AND DIRECTIVES

<b>EMC DIRECTIVE 2014/30/EU</b>	EN IEC 60947-5-2	<b>ROHS DIRECTIVE 2011/65/EU</b>	EN IEC 63000
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APPROVALS



OC10 SERIES

PRODUCT TYPE

Article number	Control output	External input	Output	Switching mode	Connection	Wiring	Dimensions
OC10-CNLX	1 output	--	NPN	Light on / Dark on	2 m cable	WD1	see Fig. 1
OC10-CPLX	1 output	--	PNP	Light on / Dark on	2 m cable	WD1	see Fig. 1
OC10-IC2NLX	2 output	1 input	NPN	Light on / Dark on	2 m cable	WD3	see Fig. 1
OC10-IC2PLX	2 output	1 input	PNP	Light on / Dark on	2 m cable	WD3	see Fig. 1
OC10-ICNLQ8	1 output	1 input	NPN	Light on / Dark on	M8 connector	WD2	see Fig. 2
OC10-ICPLQ8	1 output	1 input	PNP	Light on / Dark on	M8 connector	WD2	see Fig. 2
OC10-C2NLQ8	2 output	--	NPN	Light on / Dark on	M8 connector	WD4	see Fig. 2
OC10-C2PLQ8	2 output	--	PNP	Light on / Dark on	M8 connector	WD4	see Fig. 2

DIMENSIONS

Fig. 1 OC10-CNLX/OC10-CPLX OC10-IC2NLX/OC10-IC2PLX

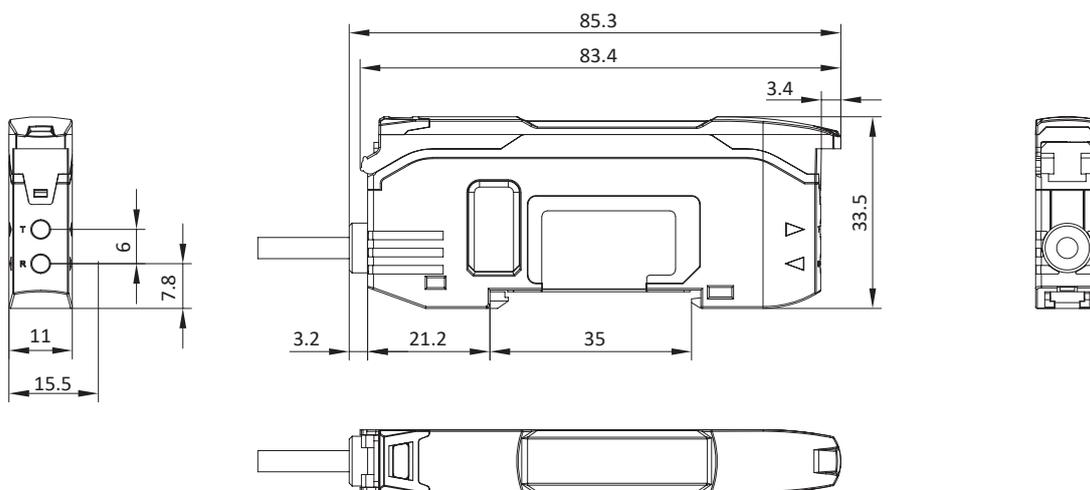
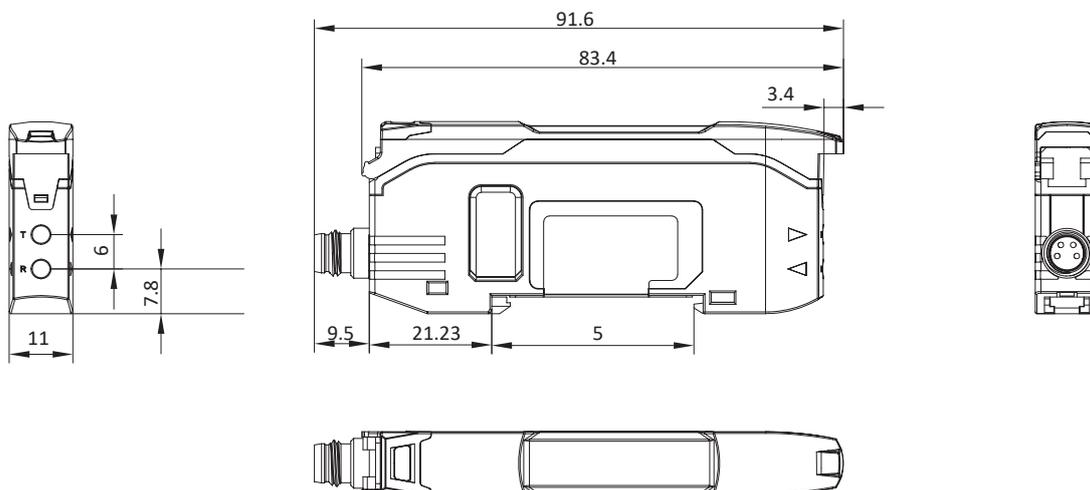


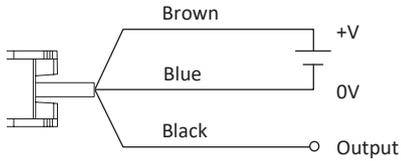
Fig. 2 OC10-ICNLQ8/OC10-ICPLQ8 OC10-C2NLQ8 / OC10-C2PLQ8



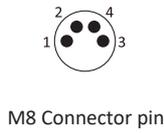
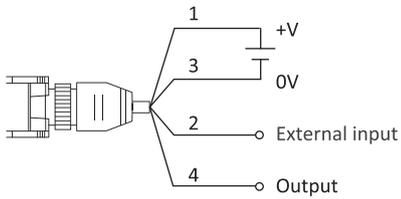
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WIRING DIAGRAMS

**WD1** OC10-CNLX/OC10-CPLX

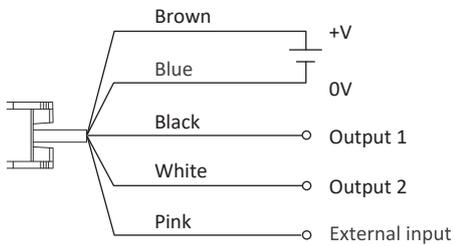


**WD2** OC10-ICNLQ8/OC10-ICPLQ8

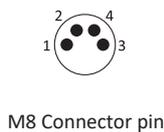
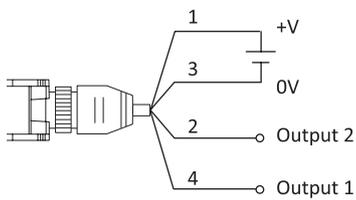


Number	Cable color	Function
1	Brown	+V
2	White	External input
3	Blue	0 V
4	Black	Output

**WD3** OC10-IC2NLX/OC10-IC2PLX



**WD4** OC10-C2NLQ8 / OC10-C2PLQ8

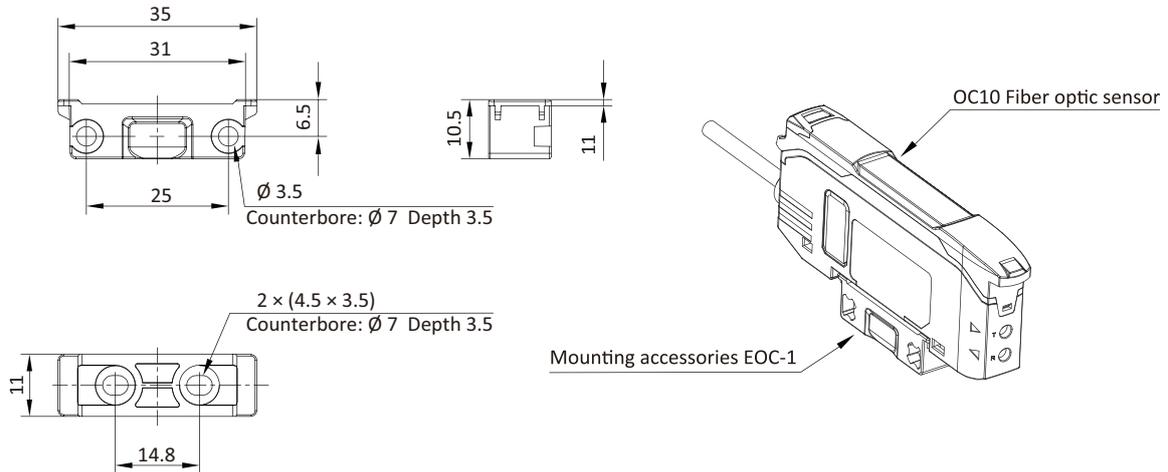


Number	Cable color	Function
1	Brown	+V
2	White	Output 2
3	Blue	0 V
4	Black	Output 1

OC10 SERIES

ACCESSORIES

EOC10-1



Product name	Mounting accessories
Function	It is connected to the fiber optic sensor and provides two mounting holes
Material	Plastic

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