

OS10S-TK SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Photoelectric sensor
SIZE	See dimensions
OPERATING DISTANCE	See table
DETECTION MODE	Vitreous body detect dif-fused

CONNECTION TYPES (see table)

- M8 connector
3-pin, A-coded



** Other cable lengths are available on request

TECHNICAL DATA

OPERATING VOLTAGE	10 ... 30 V DC	LOAD CURRENT	≤ 100 mA
RIPPLE VOLTAGE	≤ 10 %	HOUSING MATERIAL	PC + PBT
LASER CLASS	Red beam 630 nm Blue beam 460 nm	VOLTAGE WITHSTANDING	1000 V/AC, 50/60 Hz, 60 s
LIGHT SPOT SIZE	8 cm @100 mm (TK100) 8 mm @100 mm (TK250)	REVERSE POLARITY PROTECTION	Yes
OUTPUT	PNP / NPN	OVERLOAD RESISTANCE	Yes
FREQUENCY	See table	SHORT CIRCUIT PROTECTION	Yes
CURRENT CONSUMPTION	24 V 25 mA	MTTF	268 years

ENVIRONMENTAL CONDITIONS

OPERATING ENVIRONMENT HUMIDITY	35 % to 85 % RH (no condensation)	INSULATION IMPEDENCE	≥ 50 MΩ (500 V DC)
PROTECTION CLASS	IP67	SHOCK RESISTANCE (EN 60068-2-27)	500 m/s ² (50 G) 3 times X, Y, Z respectively
STORAGE TEMPERATURE	-40 ... +70 °C	IMPACT RESISTANCE (EN 60068-2-6)	Complex amplitude 1.5 mm 10 ... 50 Hz (2hr X, Y, Z respectively)
AMBIENT TEMPERATURE	-20 ... +60 °C	ANTI-AMBIENT LIGHT	≤ 5000 Lux

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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APPROVALS



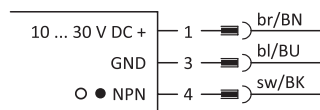
OS10S-TK SERIES

DETECTION MODE VITREOUS BODY DETECT DIFFUSED

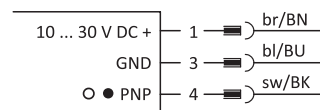
Article number	Operating distance	Light source	Frequency	Output (wiring diagram)	Switching mode	Connection	Dimensions
OS10S-TK100CN6-0.3-Q8.3	100 mm	Red	200 Hz	NPN (WD1)	L.O / D.O	0.3 m cable + M8, 3-pin	see Fig. 1
OS10S-TK100CP6-0.3-Q8.3	100 mm	Red	200 Hz	PNP (WD2)	L.O / D.O	0.3 m cable + M8, 3-pin	see Fig. 1
OS10S-TK250CN6-0.3-Q8.3	250 mm	Blue	200 Hz	NPN (WD1)	L.O / D.O	0.3 m cable + M8, 3-pin	see Fig. 2
OS10S-TK250CP6-0.3-Q8.3	250 mm	Blue	200 Hz	PNP (WD2)	L.O / D.O	0.3 m cable + M8, 3-pin	see Fig. 2

WIRING DIAGRAMS

WD1 NPN / Light on | Dark on



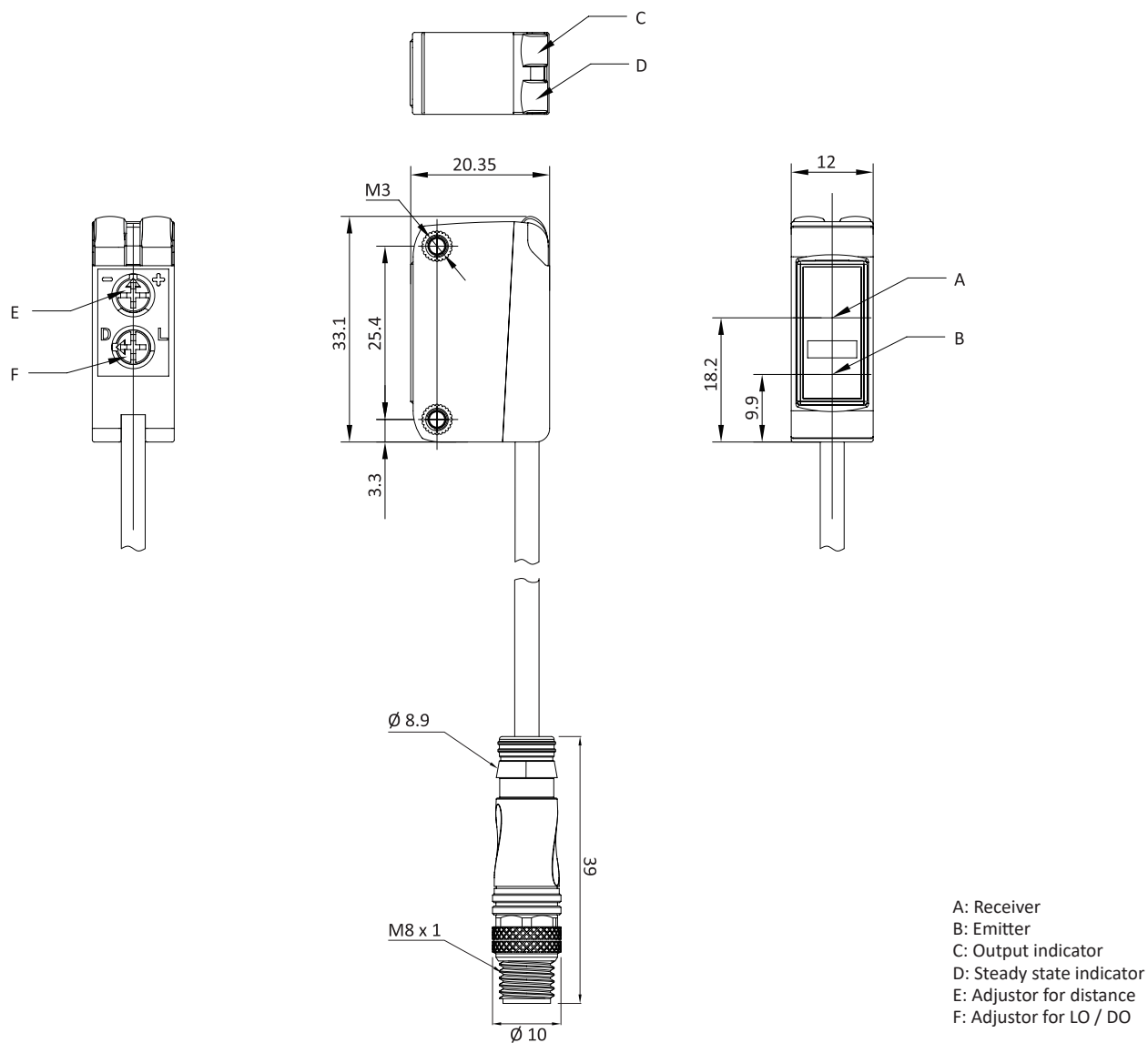
WD2 PNP / Light on | Dark on



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DIMENSIONS (mm)

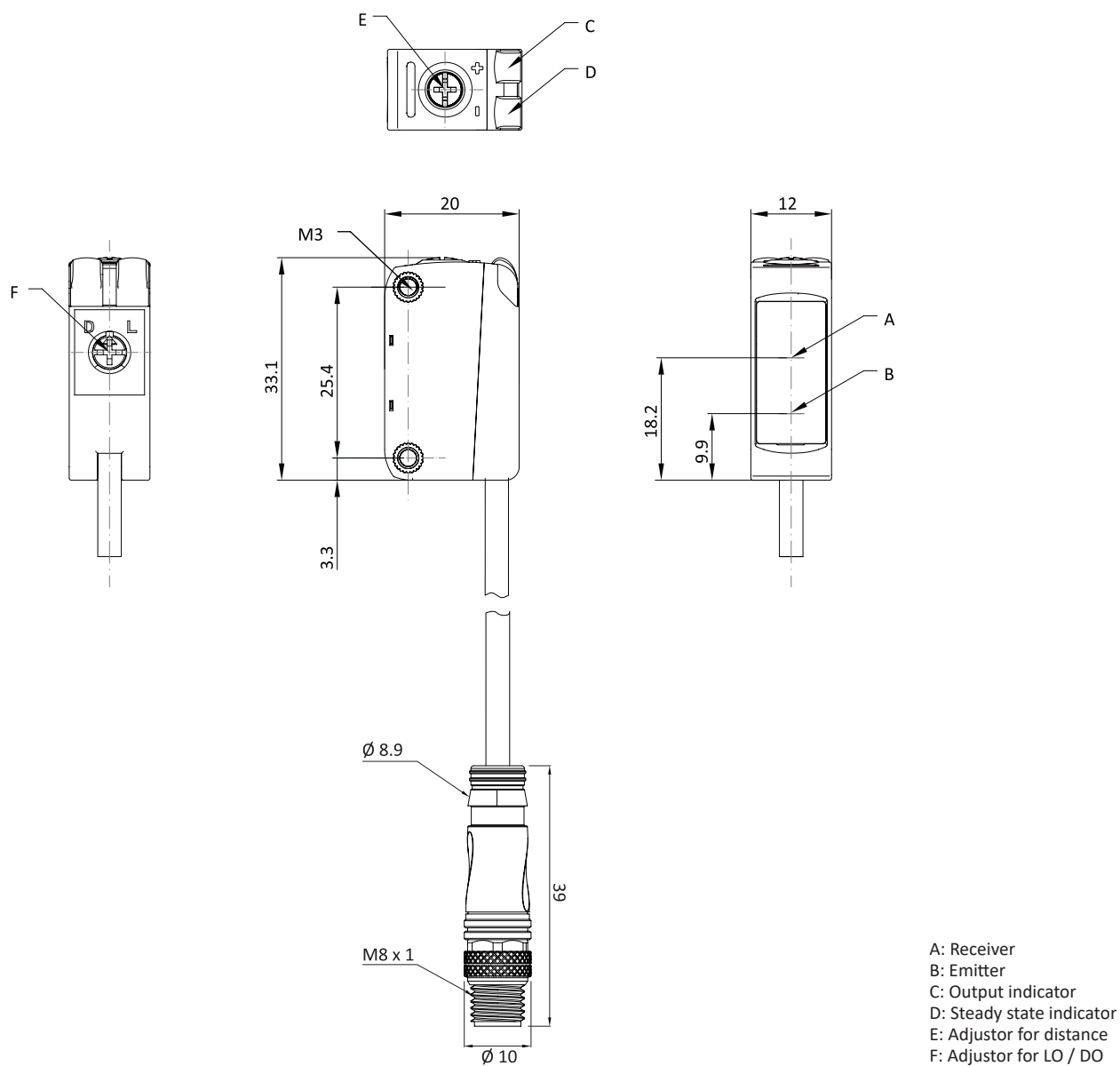
Fig. 1 OS10S-TK100



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DIMENSIONS (mm)

Fig. 2 OS10S-TK250



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SALES AND SERVICE

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