

P30 STANDARD SENSING PLASTIC SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Capacitive sensor	CONNECTION TYPES (see table)	
SIZE	M30x1.5	• Cable	PVC, 0.34 mm ² , 2 m**
RATED OPERATING DISTANCE	See table		
NUMBER OF CONDUCTORS	3-wire / 4-wire (see table)		** Other cable lengths are available on request

MECHANICAL DATA

MOUNTING (mounting nuts included in delivery)	Flush / non-flush (see table)
HOUSING	Threaded cylindrical
MATERIAL HOUSING	PBT
MATERIAL SENSING SURFACE	PBT
TIGHTENING TORQUE LOCKING	7.5 N·m
STANDARD TEST	FE360

ELECTRICAL DATA

OPERATING VOLTAGE	DC: 10 ... 30 V DC
RATED OPERATING CURRENT	3-wire: ≤ 200 mA 4-wire: ≤ 200 mA
SWITCHING FREQUENCY	See table
SWITCHING OUTPUT	See table
FUNCTION INDICATOR	Yellow LED
HYSTERESIS	3 ... 15 %
TEMPERATURE DRIFT	±10 %
SHORT-CIRCUIT PROTECTION	Yes
OVERLOAD RESISTANCE	Yes
REVERSE POLARITY PROTECTION	Yes

ENVIRONMENTAL CONDITIONS

PROTECTION CLASS	IP67	VIBRATION RESISTANCE (EN 60068-2-6)	10 ... 55 Hz, 1 mm
AMBIENT TEMPERATURE	-25 ... +70 °C	SHOCK RESISTANCE (EN 60068-2-27)	30 g, 11 ms

STANDARDS AND DIRECTIVES

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

APPROVALS



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DC 3-WIRE OUTPUT CABLE

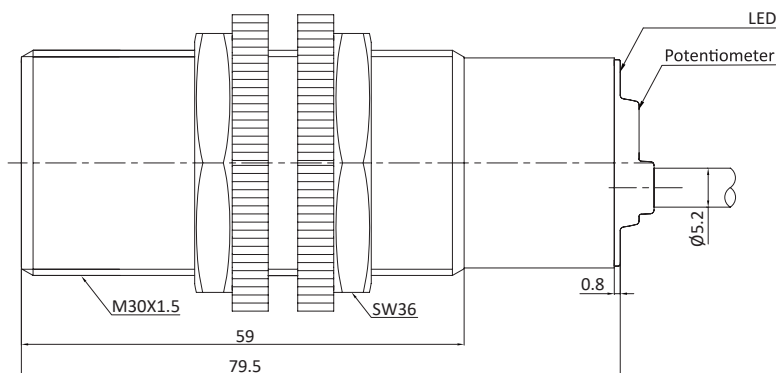
Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
FC10-P30-OP6L	flush	10 mm	PNP NO (WD5)	50 Hz	see Fig. 1
FC10-P30-ON6L	flush	10 mm	NPN NO (WD6)	50 Hz	see Fig. 1
FC10-P30-CP6L	flush	10 mm	PNP NC (WD7)	50 Hz	see Fig. 1
FC10-P30-CN6L	flush	10 mm	NPN NC (WD8)	50 Hz	see Fig. 1
NC15-P30-OP6L	non-flush	15 mm	PNP NO (WD5)	50 Hz	see Fig. 1
NC15-P30-ON6L	non-flush	15 mm	NPN NO (WD6)	50 Hz	see Fig. 1
NC15-P30-CP6L	non-flush	15 mm	PNP NC (WD7)	50 Hz	see Fig. 1
NC15-P30-CN6L	non-flush	15 mm	NPN NC (WD8)	50 Hz	see Fig. 1

DC 4-WIRE OUTPUT CABLE

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
FC10-P30-BP6L	flush	10 mm	PNP NO+NC (WD9)	50 Hz	see Fig. 1
FC10-P30-BN6L	flush	10 mm	NPN NO+NC (WD10)	50 Hz	see Fig. 1
NC15-P30-BP6L	non-flush	15 mm	PNP NO+NC (WD9)	50 Hz	see Fig. 1
NC15-P30-BN6L	non-flush	15 mm	NPN NO+NC (WD10)	50 Hz	see Fig. 1

DIMENSIONS

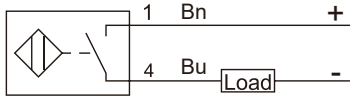
Fig. 1 Capacitive sensor with cable (flush/non-flush)



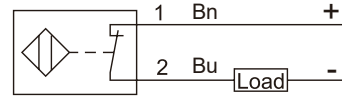
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WIRING DIAGRAMS (Note: 1 / 2 / 3 / 4 connector and terminals pin number Bn / Bu / Wh / Bk cable color)

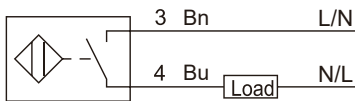
WD1 DC 2-wire NO



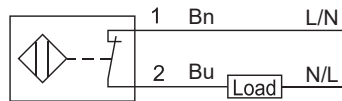
WD2 DC 2-wire NC



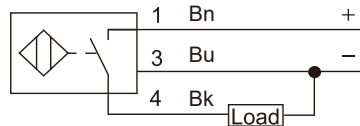
WD3 AC 2-wire NO



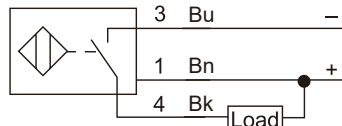
WD4 AC 2-wire NC



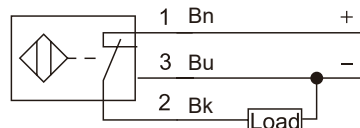
WD5 DC 3-wire PNP NO



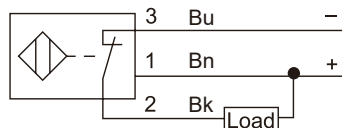
WD6 DC 3-wire NPN NO



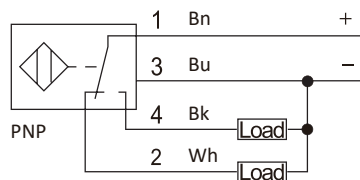
WD7 DC 3-wire PNP NC



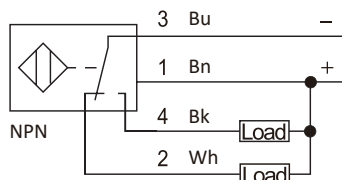
WD8 DC 3-wire NPN NC



WD9 DC 4-wire PNP NO + NC



WD10 DC 4-wire NPN NO + NC



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