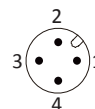


KM12 HIGH PRESSURE RESISTANT SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Inductive sensor	CONNECTION TYPES (see table)
SIZE	M12x1	- cable PVC, 0.25 mm², 2 m** - M12 connector, A-coded
RATED OPERATING DISTANCE	see table	
NUMBER OF CONDUCTORS	3-wire (see table)	



** other cable lengths are available on request

MECHANICAL DATA

MOUNTING (mounting nuts included in delivery)	flush (see table)
HOUSING	threaded cylindrical
PRESSURE RESISTANT	MAX 500 bar
MATERIAL HOUSING	stainless steel
MATERIAL SENSING SURFACE	ceramics
TIGHTENING TORQUE	25 Nm
LOCKING	
STANDARD TEST	FE360
ATTENUATION COEFFICIENT	St37 = 1, V2A = 0.7, Al = 0.3

ELECTRICAL DATA

OPERATING VOLTAGE	DC: 10 ... 30 V DC
RATED OPERATING CURRENT	3-wire: ≤ 200 mA
SWITCHING FREQUENCY	see table
SWITCHING OUTPUT	see table
FUNCTION INDICATOR	no
HYSTERESIS	3 ... 15 %
TEMPERATURE DRIFT	±10 %
SHORT-CIRCUIT PROTECTION	yes
OVERLOAD RESISTANCE	yes
REVERSE POLARITY PROTECTION	yes

ENVIRONMENTAL CONDITIONS

PROTECTION CLASS	IP68	VIBRATION RESISTANCE (EN 60068-2-27)	55 Hz, 1 mm
AMBIENT TEMPERATURE	-25 ... 70 °C	SHOCK RESISTANCE (EN 60068-2-6)	30g/11 ms

STANDARDS AND DIRECTIVES

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR	DIN EN IEC 60947-5-2:2021-04
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APPROVALS



KM12 HIGH PRESSURE RESISTANT SERIES

DC 3-WIRE OUTPUT CABLE

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi1.5D-KM12-OP6	flush	1.5 mm	PNP NO (WD7)	1000 Hz	see Fig. 1
Fi1.5D-KM12-ON6	flush	1.5 mm	NPN NO (WD8)	1000 Hz	see Fig. 1
Fi1.5D-KM12-CP6	flush	1.5 mm	PNP NC (WD9)	1000 Hz	see Fig. 1
Fi1.5D-KM12-CN6	flush	1.5 mm	NPN NC (WD10)	1000 Hz	see Fig. 1

DC 3-WIRE OUTPUT M12 CONNECTOR

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi1.5D-KM12-OP6-Q12	flush	1.5 mm	PNP NO (WD7)	1000 Hz	see Fig. 2
Fi1.5D-KM12-ON6-Q12	flush	1.5 mm	NPN NO (WD8)	1000 Hz	see Fig. 2
Fi1.5D-KM12-CP6-Q12	flush	1.5 mm	PNP NC (WD9)	1000 Hz	see Fig. 2
Fi1.5D-KM12-CN6-Q12	flush	1.5 mm	NPN NC (WD10)	1000 Hz	see Fig. 2

DIMENSIONS

Fig. 1 Inductive sensor with cable (flush)

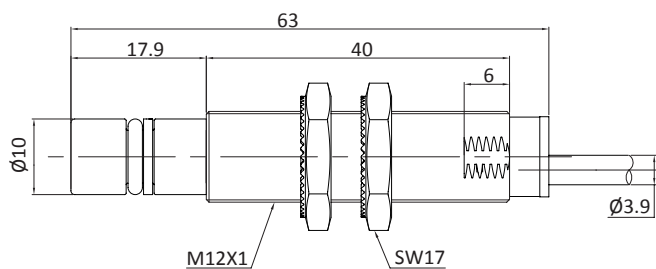
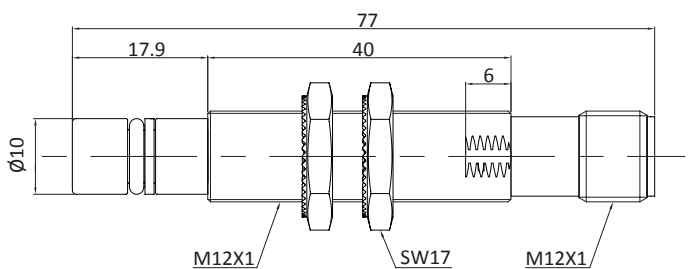
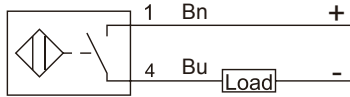
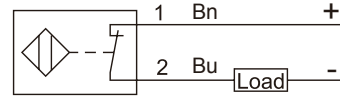
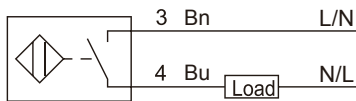
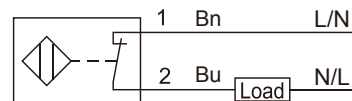
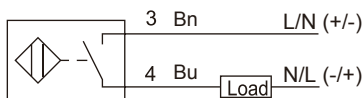
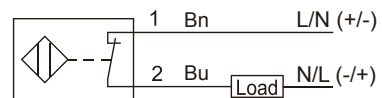
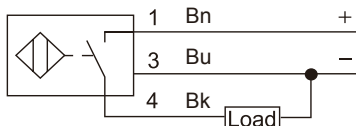
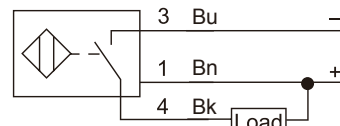
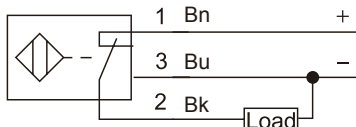
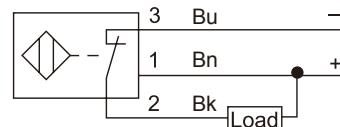
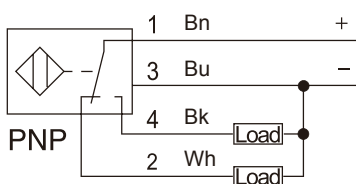
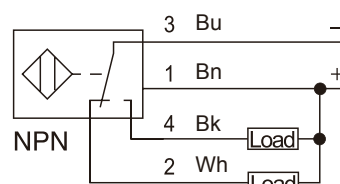


Fig. 2 Inductive sensor with M12 connector (flush)



KM12 HIGH PRESSURE RESISTANT SERIES

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

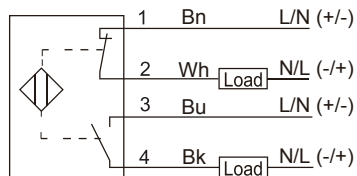
WD1 DC 2-wire NO**WD2 DC 2-wire NC****WD3 AC 2-wire NO****WD4 AC 2-wire NC****WD5 AC / DC 2-wire NO****WD6 AC / DC 2-wire NC****WD7 DC 3-wire PNP NO****WD8 DC 3-wire NPN NO****WD9 DC 3-wire PNP NC****WD10 DC 3-wire NPN NC****WD11 DC 4-wire PNP NO + NC****WD12 DC 4-wire NPN NO + NC**

The information contained in this data sheet was compiled with the greatest possible care. Liability for correctness, completeness and topicality is limited to gross negligence.

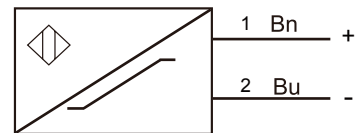
KM12 HIGH PRESSURE RESISTANT SERIES

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

WD13 AC/DC 4-wire NO+NC



WD14 NAMUR 2-wire NC



WD15 DC 4-wire 0-10V+0-20mA

