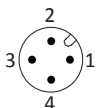


KM18 HIGH PRESSURE RESISTANT SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Inductive sensor	CONNECTION TYPES (<i>see table</i>)
SIZE	M18x1	<ul style="list-style-type: none"> • cable PVC, 0.34 mm², 2 m** • M12 connector, A-coded
RATED OPERATING DISTANCE	<i>see table</i>	
NUMBER OF CONDUCTORS	3-wire (<i>see table</i>)	

** other cable lengths are available on request

MECHANICAL DATA

MOUNTING (mounting nuts included in delivery)	flush (<i>see table</i>)
HOUSING	threaded cylindrical
PRESSURE RESISTANT	MAX 500 bar
MATERIAL HOUSING	stainless steel
MATERIAL SENSING SURFACE	ceramics
TIGHTENING TORQUE LOCKING	50 Nm
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	<i>see table</i>
SWITCHING OUTPUT	<i>see table</i>
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



KM18 HIGH PRESSURE RESISTANT SERIES

DC 3-WIRE OUTPUT CABLE

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi3D-KM18-OP6	flush	3 mm	PNP NO (WD7)	800 Hz	see Fig. 1
Fi3D-KM18-ON6	flush	3 mm	NPN NO (WD8)	800 Hz	see Fig. 1
Fi3D-KM18-CP6	flush	3 mm	PNP NC (WD9)	800 Hz	see Fig. 1
Fi3D-KM18-CN6	flush	3 mm	NPN NC (WD10)	800 Hz	see Fig. 1

DC 3-WIRE OUTPUT M12 CONNECTOR

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi3D-KM18-OP6-Q12	flush	3 mm	PNP NO (WD7)	800 Hz	see Fig. 2
Fi3D-KM18-ON6-Q12	flush	3 mm	NPN NO (WD8)	800 Hz	see Fig. 2
Fi3D-KM18-CP6-Q12	flush	3 mm	PNP NC (WD9)	800 Hz	see Fig. 2
Fi3D-KM18-CN6-Q12	flush	3 mm	NPN NC (WD10)	800 Hz	see Fig. 2

DIMENSIONS

Fig. 1 Inductive sensor with cable (flush)

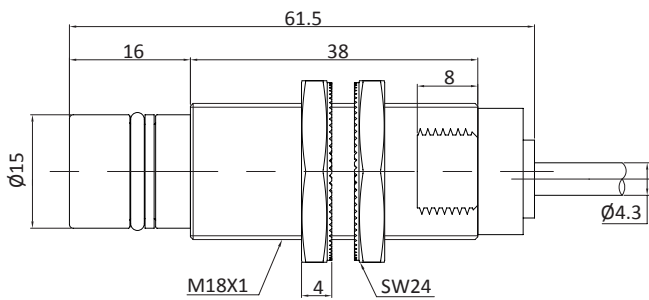
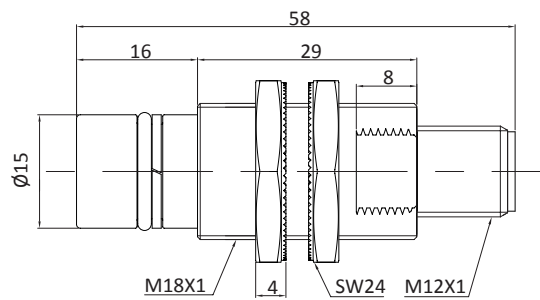


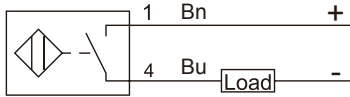
Fig. 2 Inductive sensor with M12 connector (flush)



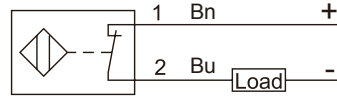
KM18 HIGH PRESSURE RESISTANT SERIES

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

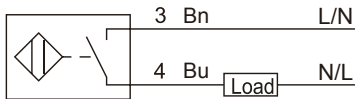
WD1 DC 2-wire NO



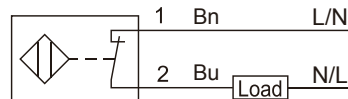
WD2 DC 2-wire NC



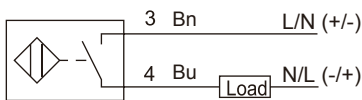
WD3 AC 2-wire NO



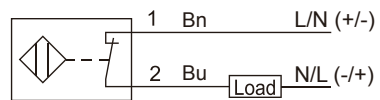
WD4 AC 2-wire NC



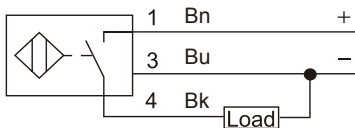
WD5 AC / DC 2-wire NO



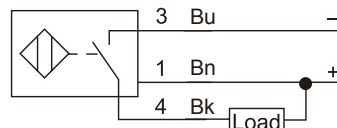
WD6 AC / DC 2-wire NC



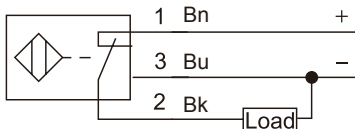
WD7 DC 3-wire PNP NO



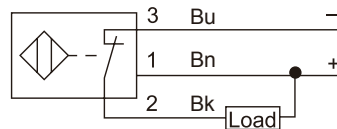
WD8 DC 3-wire NPN NO



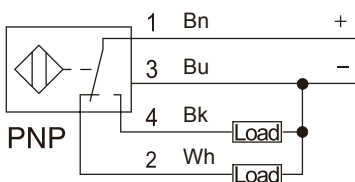
WD9 DC 3-wire PNP NC



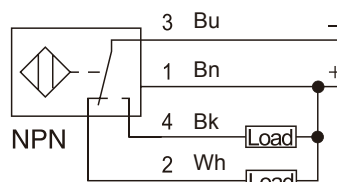
WD10 DC 3-wire NPN NC



WD11 DC 4-wire PNP NO + NC



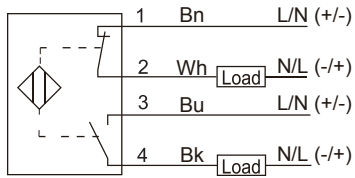
WD12 DC 4-wire NPN NO + NC



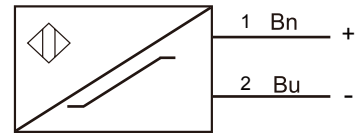
KM18 HIGH PRESSURE RESISTANT SERIES

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

