

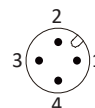
M18 ANALOG OUTPUT SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Inductive sensor
SIZE	M18x1
RATED OPERATING DISTANCE	See table
NUMBER OF CONDUCTORS	4-wire (see table)

CONNECTION TYPES (see table)

- Cable PVC, 0.34 mm², 2 m**
- M12 connector, A-coded



** Other cable lengths are available on request

MECHANICAL DATA

MOUNTING (mounting nuts included in delivery)	Flush / non-flush (see table)
HOUSING	Threaded cylindrical
LINEARITY ERROR	≤ 3 %
MATERIAL HOUSING	Brass nickel-plated
MATERIAL SENSING SURFACE	PBT
TIGHTENING TORQUE	20 N·m
LOCKING	
STANDARD TEST	FE360
ATTENUATION COEFFICIENT	St37 = 1, V2A = 0.7, Al = 0.3

ELECTRICAL DATA

OPERATING VOLTAGE	DC: 15 ... 30 V DC
RATED OPERATING CURRENT	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



M18 ANALOG OUTPUT SERIES

DC 4-WIRE OUTPUT CABLE

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi5-M18-LIU	flush	1.0 ... 5.0 mm	0 ... 10 V DC / 0 ... 20 mA (WD15)	800 Hz	see Fig. 1
Ni8-M18-LIU	non-flush	1.6 ... 8.0 mm	0 ... 10 V DC / 0 ... 20 mA (WD15)	500 Hz	see Fig. 2

DC 4-WIRE OUTPUT M12 CONNECTOR

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Dimensions
Fi5-M18-LIU-Q12	flush	1.0 ... 5.0 mm	0 ... 10 V DC / 0 ... 20 mA (WD15)	800 Hz	see Fig. 3
Ni8-M18-LIU-Q12	non-flush	1.6 ... 8.0 mm	0 ... 10 V DC / 0 ... 20 mA (WD15)	500 Hz	see Fig. 4

DIMENSIONS

Fig. 1 Inductive sensor with cable (flush)

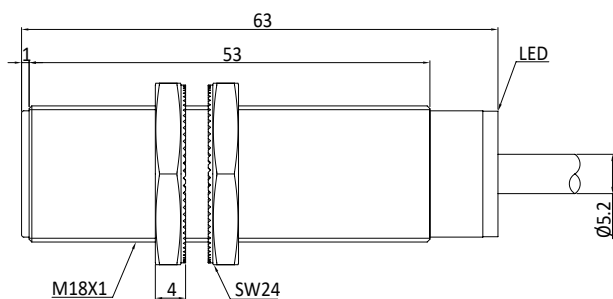


Fig. 2 Inductive sensor with cable (non-flush)

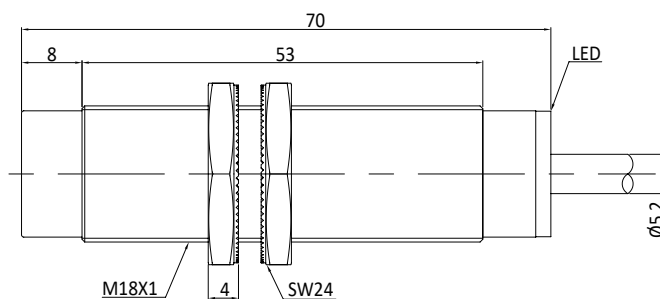


Fig. 3 Inductive sensor with M12 connector (flush)

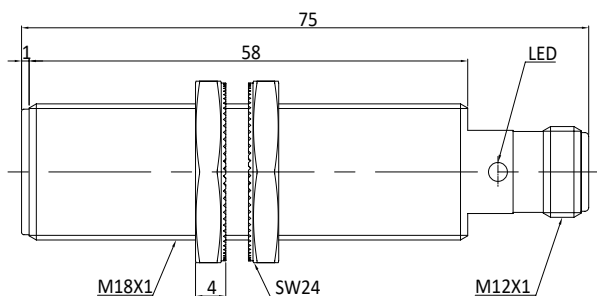
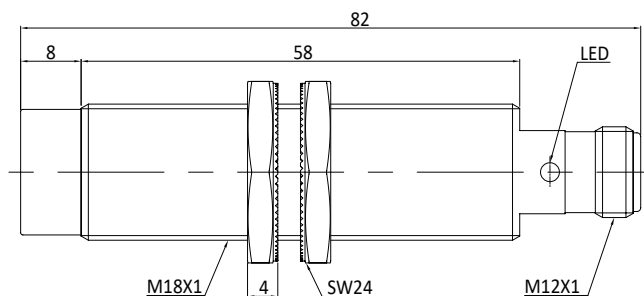
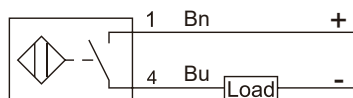
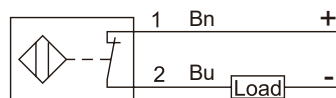
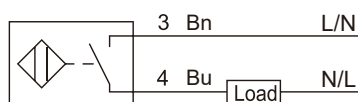
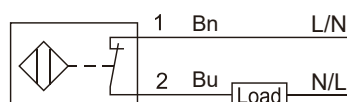
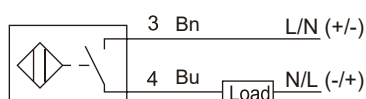
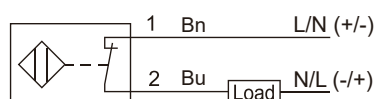
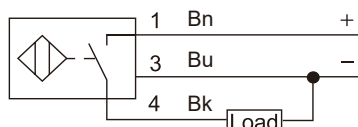
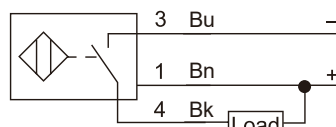
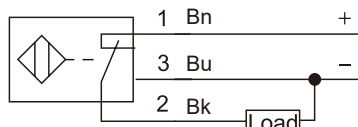
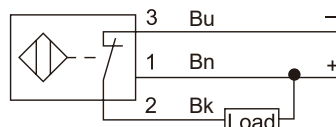
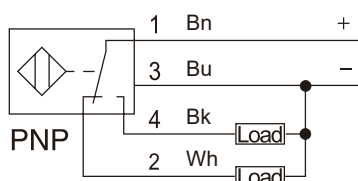
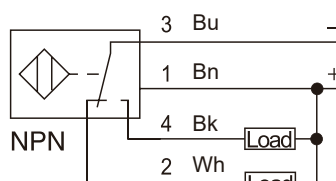


Fig. 4 Inductive sensor with M12 connector (non-flush)



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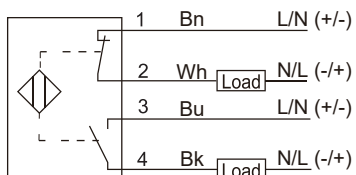
WIRING DIAGRAMS (Note: 1 / 2 / 3 / 4 connector and terminals pin number Bn / Bu / Wh / Bk cable color)

WD1 DC 2-wire NO**WD2 DC 2-wire NC****WD3 AC 2-wire NO****WD4 AC 2-wire NC****WD5 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**

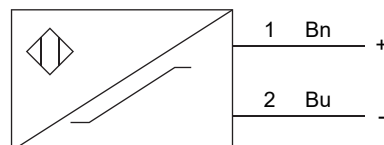
M18 ANALOG OUTPUT SERIES

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

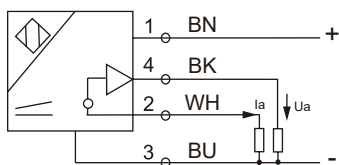
WD13 AC/DC 4-wire NO+NC



WD14 NAMUR 2-wire NC



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



M18 ANALOG OUTPUT SERIES

SALES AND SERVICE

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