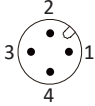


METAL M18 SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Ultrasonic sensor	CONNECTION TYPES (<i>see table</i>)
SIZE	M18x1	<ul style="list-style-type: none"> M12 connector, A-code
RATED OPERATING DISTANCE	See table	
NUMBER OF CONDUCTORS	4-wire (<i>see table</i>)	

MECHANICAL DATA

MOUNTING (mounting nuts included in delivery)	Flush (<i>see table</i>)
HOUSING	Metal
MATERIAL HOUSING	Brass nickel-plated
MATERIAL SENSING SURFACE	Glass epoxy
TIGHTENING TORQUE LOCKING	2 N·m
STANDARD TEST	FE360

ELECTRICAL DATA

OPERATING VOLTAGE	DC: 15 ... 30 V DC
LOAD IMPEDANCE	U/>1 kOhm
SWITCHING FREQUENCY	See table
SWITCHING OUTPUT	See table
FUNCTION INDICATOR	Yellow LED
REPEATABILITY	±0.5 %
LINEARITY	±1 %
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



METAL M18 SERIES

4-WIRE OUTPUT M12 CONNECTOR

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Resolution	Dimensions
UKS150-G18-VN7L-Q12	flush	20 ... 150 mm	NPN NO/NC (WD1)	20 Hz	0.17 mm	see Fig. 1
UKS150-G18-VP7L-Q12	flush	20 ... 150 mm	PNP NO/NC (WD1)	20 Hz	0.17 mm	see Fig. 1
UKS350-G18-VN7L-Q12	flush	30 ... 350 mm	NPN NO/NC (WD1)	20 Hz	0.17 mm	see Fig. 1
UKS350-G18-VP7L-Q12	flush	30 ... 350 mm	PNP NO/NC (WD1)	20 Hz	0.17 mm	see Fig. 1
UKS500-G18-VN7L-Q12	flush	40 ... 500 mm	NPN NO/NC (WD1)	20 Hz	0.17 mm	see Fig. 1
UKS500-G18-VP7L-Q12	flush	40 ... 500 mm	PNP NO/NC (WD1)	20 Hz	0.17 mm	see Fig. 1
UKS1000-G18-VN7L-Q12	flush	60 ... 1000 mm	NPN NO/NC (WD1)	10 Hz	0.5 mm	see Fig. 2
UKS1000-G18-VP7L-Q12	flush	60 ... 1000 mm	PNP NO/NC (WD1)	10 Hz	0.5 mm	see Fig. 2
UKS150-G18-LI7L-Q12	flush	0 ... 150 mm	Analog 4 ... 20 mA (WD2)	20 Hz	0.17 mm	see Fig. 1
UKS350-G18-LI7L-Q12	flush	30 ... 350 mm	Analog 4 ... 20 mA (WD2)	20 Hz	0.17 mm	see Fig. 1
UKS500-G18-LI7L-Q12	flush	40 ... 500 mm	Analog 4 ... 20 mA (WD2)	20 Hz	0.17 mm	see Fig. 1
UKS1000-G18-LI7L-Q12	flush	60 ... 1000 mm	Analog 4 ... 20 mA (WD2)	10 Hz	0.5 mm	see Fig. 2
UKS150-G18-LU17L-Q12	flush	20 ... 150 mm	Analog 0 ... 5 V (WD3)	20 Hz	0.17 mm	see Fig. 1
UKS150-G18-LU27L-Q12	flush	20 ... 150 mm	Analog 0 ... 10 V (WD3)	20 Hz	0.17 mm	see Fig. 1
UKS350-G18-LU17L-Q12	flush	30 ... 350 mm	Analog 0 ... 5 V (WD3)	20 Hz	0.17 mm	see Fig. 1
UKS350-G18-LU27L-Q12	flush	30 ... 350 mm	Analog 0 ... 10 V (WD3)	20 Hz	0.17 mm	see Fig. 1
UKS500-G18-LU17L-Q12	flush	40 ... 500 mm	Analog 0 ... 5 V (WD3)	20 Hz	0.17 mm	see Fig. 1
UKS500-G18-LU27L-Q12	flush	40 ... 500 mm	Analog 0 ... 10 V (WD3)	20 Hz	0.17 mm	see Fig. 1
UKS1000-G18-LU17L-Q12	flush	60 ... 1000 mm	Analog 0 ... 5 V (WD3)	10 Hz	0.5 mm	see Fig. 2
UKS1000-G18-LU27L-Q12	flush	60 ... 1000 mm	Analog 0 ... 10 V (WD3)	10 Hz	0.5 mm	see Fig. 2

DIMENSIONS

Fig. 1 Ultrasonic with M12 connector (flush)

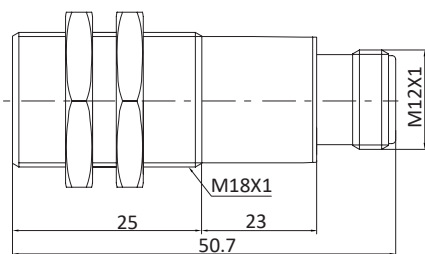
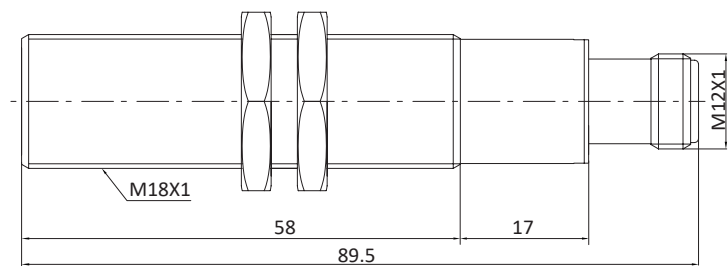


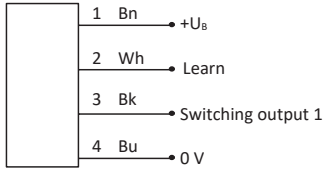
Fig. 2 Ultrasonic with M12 connector (flush)



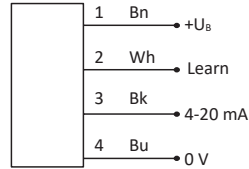
METAL M18 SERIES

WIRING DIAGRAMS

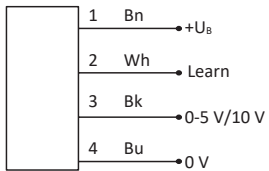
WD1 NO/NC



WD2 Analog 4 ... 20 mA



WD3 Analog 0 ... 5 V / 0 ... 10 V



METAL M18 SERIES

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