

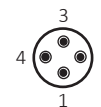
METAL M18 SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Ultrasonic sensor
SIZE	M18x1
RATED OPERATING DISTANCE	<i>see table</i>
NUMBER OF CONDUCTORS	4-wire (<i>see table</i>)

CONNECTION TYPES (*see table*)

- M12 connector



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	2 Nm
LOCKING	
STANDARD TEST	FE360

ELECTRICAL DATA

OPERATING VOLTAGE	DC: 15 ... 30 V DC
LOAD IMPEDANCE	U/>1kOhm
SWITCHING FREQUENCY	<i>see table</i>
SWITCHING OUTPUT	<i>see table</i>
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 60068-2-27)	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



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

METAL M18 SERIES

DIMENSIONS

Fig. 1 Ultrasonic with M12 connector (flush)

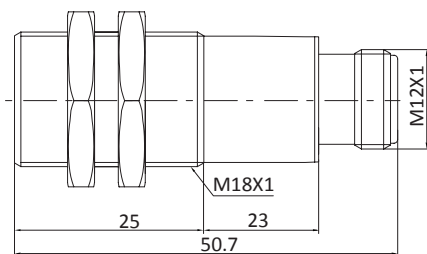
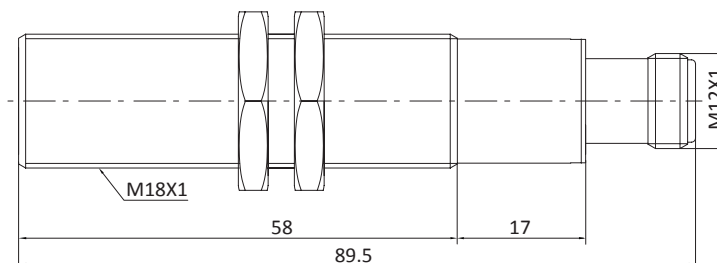
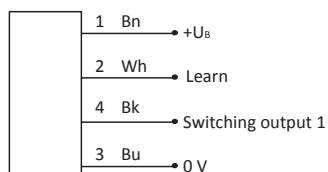


Fig. 2 Ultrasonic with M12 connector (flush)

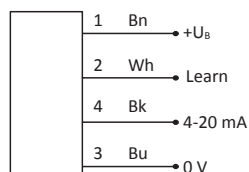


WIRING DIAGRAMS

WD1 NO/NC



WD2 Analog 4 ... 20 mA



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

