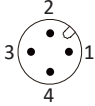


## METAL M18 SERIES

## ARTICLE PROPERTIES

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

## MECHANICAL DATA

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

## ELECTRICAL DATA

<b>OPERATING VOLTAGE</b>	DC: 15 ... 30 V DC
<b>LOAD IMPEDANCE</b>	U/>1 kOhm
<b>SWITCHING FREQUENCY</b>	See table
<b>SWITCHING OUTPUT</b>	See table
<b>FUNCTION INDICATOR</b>	Yellow LED
<b>REPEATABILITY</b>	±0.5 %
<b>LINEARITY</b>	±1 %
<b>SHORT-CIRCUIT PROTECTION</b>	Yes
<b>OVERLOAD RESISTANCE</b>	Yes
<b>REVERSE POLARITY PROTECTION</b>	Yes

## ENVIRONMENTAL CONDITIONS

<b>PROTECTION CLASS</b>	IP67	<b>VIBRATION RESISTANCE</b> (EN 60068-2-6)	10 ... 55 Hz, 1 mm
<b>AMBIENT TEMPERATURE</b>	-25 ... +70 °C	<b>SHOCK RESISTANCE</b> (EN 60068-2-27)	30 g, 11 ms

## STANDARDS AND DIRECTIVES

<b>EMC DIRECTIVE 2014/30/EU</b>	EN IEC 60947-5-2
<b>ROHS DIRECTIVE 2011/65/EU</b>	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)

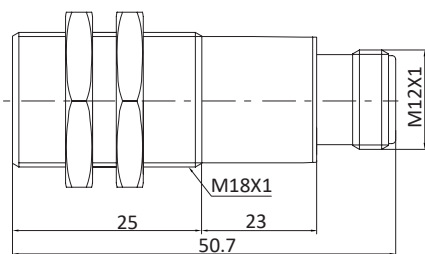
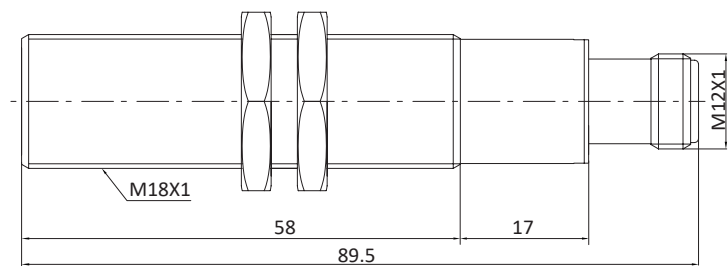


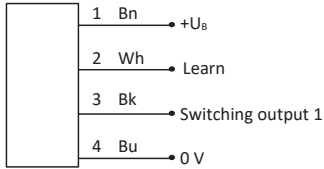
Fig. 2 Ultrasonic with M12 connector (flush)



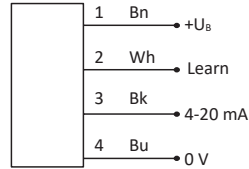
METAL M18 SERIES

WIRING DIAGRAMS

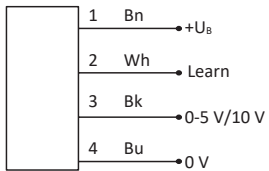
**WD1 NO/NC**



**WD2 Analog 4 ... 20 mA**



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



## METAL M18 SERIES

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