

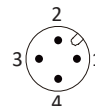
METAL M30 SERIES

ARTICLE PROPERTIES

SENSOR TYPE	Ultrasonic sensor
SIZE	M30x1
RATED OPERATING DISTANCE	See table
NUMBER OF CONDUCTORS	4-wire (see table)

CONNECTION TYPES (see table)

- M12 connector, A-code



MECHANICAL DATA

MOUNTING (mounting nuts included in delivery)	Flush (see table)
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 M30 SERIES

4-WIRE OUTPUT M12 CONNECTOR

Article number	Mounting	Rated operating distance Sn	Switching output (wiring diagram)	Switching frequency	Resolution	Dimensions
UKS3000-G30-VN7L-Q12	flush	180 ... 3000 mm	NPN NO / NC (WD1)	9 Hz	1 mm	see Fig. 1
UKS3000-G30-VP7L-Q12	flush	180 ... 3000 mm	PNP NO / NC (WD1)	9 Hz	1 mm	see Fig. 1
UKS4000-G30-VN7L-Q12	flush	200 ... 4000 mm	NPN NO / NC (WD1)	3 Hz	1 mm	see Fig. 2
UKS4000-G30-VP7L-Q12	flush	200 ... 4000 mm	PNP NO / NC (WD1)	3 Hz	1 mm	see Fig. 2
UKS3000-G30-LI7L-Q12	flush	180 ... 3000 mm	Analog 4 ... 20 mA (WD2)	9 Hz	1 mm	see Fig. 1
UKS4000-G30-LI7L-Q12	flush	200 ... 4000 mm	Analog 4 ... 20 mA (WD2)	3 Hz	1 mm	see Fig. 2
UKS3000-G30-LU17L-Q12	flush	180 ... 3000 mm	Analog 0 ... 5 V (WD3)	9 Hz	1 mm	see Fig. 1
UKS3000-G30-LU27L-Q12	flush	180 ... 3000 mm	Analog 0 ... 10 V (WD3)	9 Hz	1 mm	see Fig. 1
UKS4000-G30-LU17L-Q12	flush	200 ... 4000 mm	Analog 0 ... 5 V (WD3)	3 Hz	1 mm	see Fig. 2
UKS4000-G30-LU27L-Q12	flush	200 ... 4000 mm	Analog 0 ... 10 V (WD3)	3 Hz	1 mm	see Fig. 2

DIMENSIONS

Fig. 1 Ultrasonic with M12 connector (UKS3000)

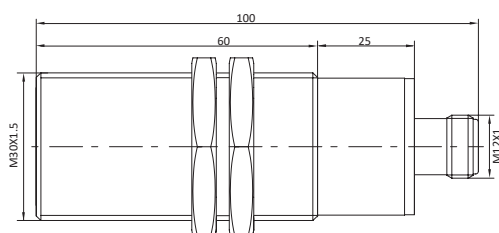
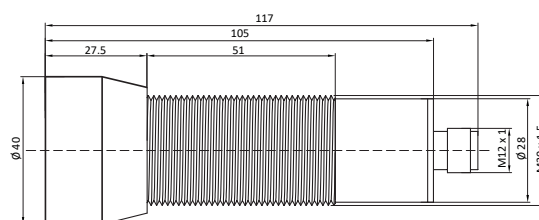
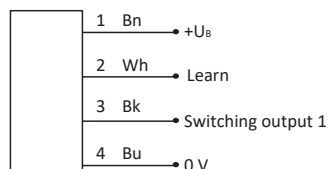


Fig. 2 Ultrasonic with M12 connector (UKS4000)

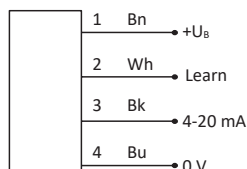


WIRING DIAGRAMS

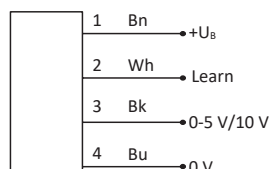
WD1 NO / NC



WD2 Analog 4 ... 20 mA



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



METAL M30 SERIES

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