



Ultrasonic Sensor

UM30-211113 part no.

6036916,30-250MM,SYMBOL:

0-991473,ANALOGUE

OUTPUT:0-10V/10-20mA

URL:<https://www.sxplc.com/ultrasonic-sensor-um30-211113-part-no-6036916-30-250mm-symbol-0-991473-analogue-output-0-10v-10-20ma>

Product data sheet

Mechanics/electronics

Supply voltage Vs DC 9 V ... 30 V 1) 2)

Power consumption ≤ 2.4 W 3)

Initialization time < 300 ms

Design Cylindrical

Housing material Metal (nickel-plated brass, PBT, ultrasonic transducer: polyurethane foam, glass epoxy resin)

Thread size M30 x 1.5

Connection type Male connector, M12, 5-pin

Indication LED display, 2 x LED

Weight 150 g

Sending axis Straight

Dimensions (W x H x D) 30 mm x 30 mm x 84 mm

Enclosure rating IP65 / IP67

Protection class III

1) Limit values, reverse-polarity protected Operation in short-circuit protected network: max. 8 A, class

2.

2) 15 V ... 30 V when using the analog voltage output.

3) Without load.

Safety-related parameters

MTTFD 101 years

DCavg 0%

Performance

Operating range, limiting range 30 mm ... 250 mm, 350 mm

Target Natural objects

1) In relation to the current measured value, minimum value \geq resolution.

2) Referring to current measurement value.

3) Temperature compensation can be switched off, without temperature compensation: 0.17 % / K.

4) Subsequent smoothing of the analog output, depending on the application, may increase the response time by up to 200 %.

Resolution \geq 0.18 mm

Repeatability \pm 0.15 %

Accuracy \pm 1 %

Temperature compensation ✓

Response time 32 ms 4) Output time 8 ms

Ultrasonic frequency (typical) 320 kHz

Detection area (typical) See diagrams

Additional function Teach-in of analog output Scaling of analog outputs Invertable analog output Synchronization of up to 50 sensors Multiplexing: no cross talk of up to 50 sensors Adjustable measurement filters: Measured value filters/Filter strength/Foreground suppression/Detection area/Sensitivity and sound beam Display (can be deactivated) Reset to factory default

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Interfaces

Analog output Number 1 Type Current output / voltage output Function Automatic selection of analog current or voltage output dependent on load Current 4 mA ... 20 mA, $\leq 500 \Omega$ 1) Voltage 0 V ... 10 V, $\geq 100,000 \Omega$ Resolution 12 bit Multifunctional input (MF) 1 x MF

1) For 4 mA ... 20 mA and $V_s \leq 20$ V max. load $\leq 100 \Omega$.

Ambient data

Ambient temperature, operation $-25 \text{ }^\circ\text{C}$... $+70 \text{ }^\circ\text{C}$

Ambient temperature, storage $-40 \text{ }^\circ\text{C}$... $+85 \text{ }^\circ\text{C}$

