**Ultrasonic Sensor** 

**UM30-211113** part no.

6036916,30-250MM,SYMBOL:

0-991473, **ANALOGUE** 

OUTPUT:0-10V/10-20mA

 $\label{lem:urange} \begin{tabular}{ll} URL: https://www.sxplc.com/ultrasonic-sensor-um30-211113-part-n \\ o-6036916-30-250mm-symbol-0-991473-analogue-output-0-10v-10-20ma \end{tabular}$ 

## **Product data sheet**

## Mechanics/electronics

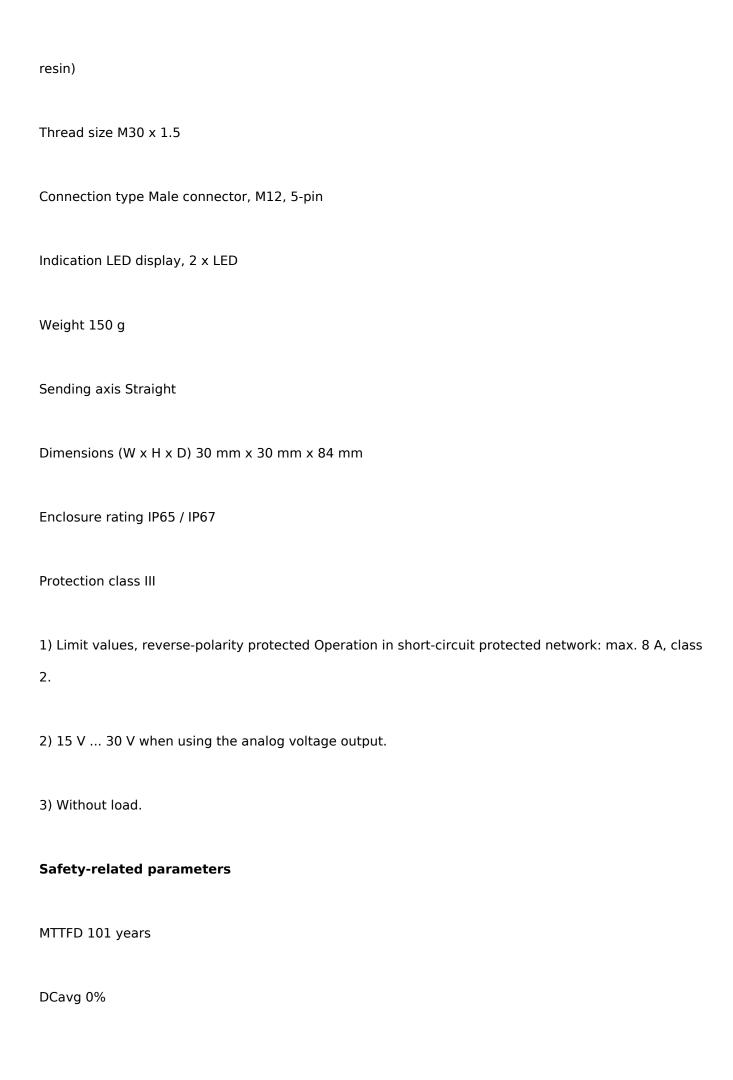
Supply voltage Vs DC 9 V ... 30 V 1) 2)

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



## **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 ≥ 0.18 mm
Repeatability ± 0.15 %
Accuracy ± 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 suppres\_sion/Detection

area/Sensitivity and sound beam Display (can be deactivated) Reset to factory default

1) In relation to the current measured value, minimum value ≥ 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 %.

**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, ≤ 500 Ω 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 Vs  $\leq$  20 V max. load  $\leq$  100  $\Omega$ .

**Ambient data** 

Ambient temperature, operation -25 °C ... +70 °C

Ambient temperature, storage –40 °C ... +85 °C

