

# T30UUNA

## Ultrasonic Sensor – diffuse mode sensor

### With Analog Output



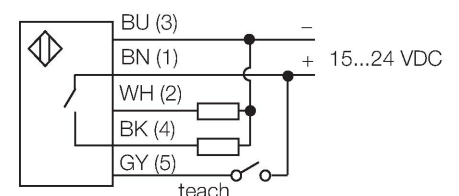
#### Technical data

|                         |                                   |
|-------------------------|-----------------------------------|
| Type                    | T30UUNA                           |
| ID                      | 3055989                           |
| <b>Ultrasonic data</b>  |                                   |
| Function                | Proximity switch                  |
| Range                   | 150...1000 mm                     |
| Ultrasound frequency    | 228 kHz                           |
| Repeatability           | $\leq \pm 0.375$ mm               |
| Temperature drift       | $\leq 0.2$ % of full scale/K      |
| <b>Electrical data</b>  |                                   |
| Operating voltage $U_B$ | 15...24 VDC                       |
| Response time typical   | < 48 ms                           |
| Output function         | Analog output                     |
| Voltage output          | 0...10 V                          |
| Hysteresis              | $\leq 2.5$ mm                     |
| <b>Mechanical data</b>  |                                   |
| Design                  | Tube, T30U                        |
| Radiation direction     | straight                          |
| Dimensions              | $\varnothing 40 \times 45$ mm     |
| Housing material        | Plastic, PBT                      |
| Transducer material     | Plastic, Epoxyd resin and PU foam |
| Electrical connection   | Cable, 2 m, PVC                   |
| Ambient temperature     | -20...+70 °C                      |
| Relative humidity       | 100 %                             |
| Protection class        | IP67                              |
| Power-on indication     | LED                               |

#### Features

- Compact design
- Cable, 2 m
- Operating voltage 15...24 VDC
- PNP transistor output and analog output for voltage
- Measuring range adjustable via teach-in
- Blind zone: 15 cm
- Range: 100 cm

#### Wiring diagram



#### Functional principle

Ultrasonic sensors detect a multitude of objects contactless and wear-free with ultrasonic waves. Regardless of whether the object is transparent or opaque, metallic or non-metallic, liquid, solid or powdery. Even environmental conditions such as spray, dust or rain hardly affect their function.

