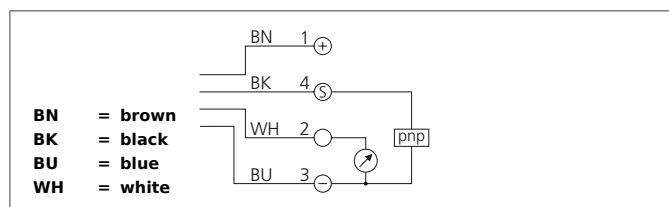


# US 60 K 2500 PSA-I-TSSL

## Ultrasonic Sensor



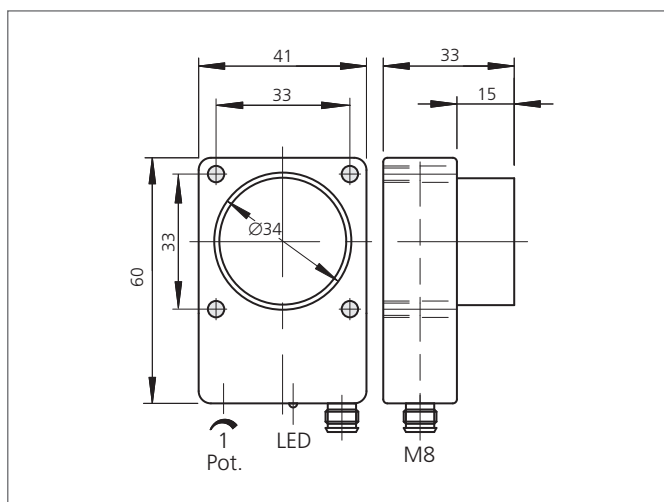
- Robust casing
- Compact design
- Scanning range adjustable
- Insensitive to dirt
- Insensitive to ambient noise
- Scanning does not depend on surface
- Switching output and analog output
- High follow-up speed
- High resolution
- Piezo-ceramic composite transducer



### Safety instructions

The Instruments are not to be used for safety applications, in particular applications in which safety of persons depends on proper operation of the instruments.

These instruments shall exclusively be used by qualified personnel.



| TECHNICAL INFORMATION (typ.) |  | +20°C, 24V DC                 |
|------------------------------|--|-------------------------------|
| Operating principle          |  | Ultrasonic sensor             |
| Evaluation                   |  | digital, analog               |
| Size                         |  | 60 x 41 x 18 mm (Dimensions)  |
| Design                       |  | cuboid design                 |
| Service voltage              |  | 15 ... 30 V DC                |
| Internal power consumption   |  | < 60 mA                       |
| Operating distance           |  | 250 ... 2.500 mm              |
| Resolution                   |  | 0,1 % / Sn max.               |
| Switching output             |  | pnp, 100 mA, NO + analog      |
| Switching hysteresis         |  | 40 mm                         |
| Analog output                |  | 9 ... 0 V                     |
| Tracking speed               |  | 400 ms (95% Sn max.)          |
| Operating frequency          |  | 120.000 Hz                    |
| Ripple                       |  | 15 mV                         |
| Linearity analog output      |  | < 0,5 % / Sn max.             |
| Switching frequency          |  | 3 Hz                          |
| Response-/release time       |  | 200 ms / 120 ms (50% Sn max.) |
| Reproducibility              |  | < 1 % / Sn max.               |
| Ambient temperature          |  | -20 ... +50 °C                |
| Temperature error            |  | 1 % (-20 ... +50°C)           |
| Load resistance              |  | > 10.000 Ω                    |
| Insulation voltage endurance |  | 500 V                         |
| Protection class             |  | IP 67                         |

## US 60 K 2500 PSA-I-TSSL

### Ultrasonic Sensor



| TECHNICAL INFORMATION (typ.) |  | +20°C, 24V DC          |
|------------------------------|--|------------------------|
| Casing material              |  | polyamide              |
| Connection                   |  | Connector, M8, 4-poled |