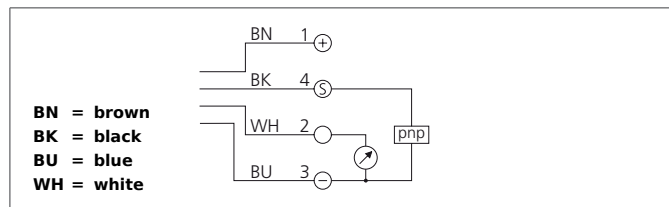


## US 18 KR 1003 PSAK-TSSL

### Ultrasonic Sensor

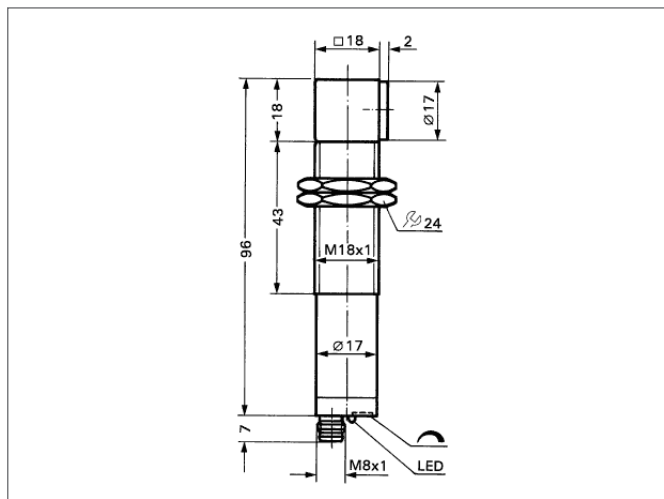
- Compact design
- Scanning range adjustable
- Insensitive to dirt
- Oil-resistant
- Insensitive to ambient noise
- Scanning does not depend on surface
- Switching output and analog output
- High follow-up speed
- High resolution
- Piezo-ceramic composite transducer



#### 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.  
Repair only by di-soric.



| TECHNICAL INFORMATION        |  | +20°C, 24V DC                                 |
|------------------------------|--|-----------------------------------------------|
| Operating principle          |  | Ultrasonic sensor                             |
| Size                         |  | M18 x 1 (Gewinde)                             |
| Design                       |  | screw                                         |
| Service voltage              |  | 18 ... 33 V DC                                |
| Operating distance           |  | 180 ... 1.000 mm                              |
| Switching output             |  | Transistor pnp, 100 mA, NO + analog           |
| Analog output                |  | 1,8 ... 10 V                                  |
| Tracking speed               |  | 400 ms (95% Sn max.)                          |
| Operating frequency          |  | 180.000 Hz                                    |
| Ripple                       |  | 100 mV                                        |
| Linearity analog output      |  | < 1 % / Sn max.                               |
| Internal power consumption   |  | 35 mA                                         |
| Operating frequency          |  | 7 Hz, Measuring frequency                     |
| Accuracy                     |  | < 2 % / Sn max.                               |
| Response-/release time       |  | < 100 ms                                      |
| Switching hysteresis         |  | 30 ... 60 mm                                  |
| Ambient temperature          |  | -20 ... +50 °C                                |
| Temperature drift            |  | -0,17 %/K (air path), +4 mV/K (analog output) |
| Load resistance              |  | > 10.000 Ω                                    |
| Insulation voltage endurance |  | 500 V                                         |
| Protection class             |  | IP 67                                         |
| Casing material              |  | polyamide                                     |
| Connection                   |  | Connector, M8, 4-poled                        |