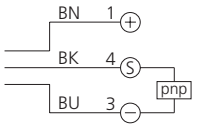
Ultraschall-Sensoren | Ultrasonic sensors

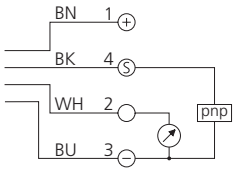
- **Stabiles Gehäuse**
- **Arbeitsbereich einstellbar**
- **Schmutzunempfindlich**
- **Störgeräuschunempfindlich**
- **Messung oberflächenunabhängig**
- **Schalt- und Analogausgang**
- **Hohe Folgegeschwindigkeit**
- **Hohe Auflösung**
- **Piezokeramischer Verbundwandler**

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

Anschlussschema
Connection diagram



US 18 ... PSLK
US 18 ... PSK-TSSL

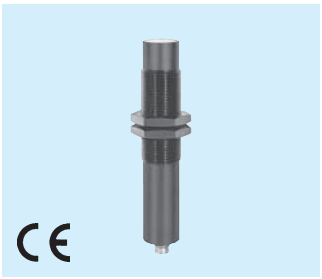
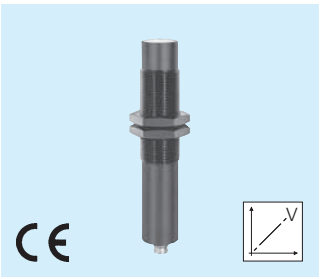
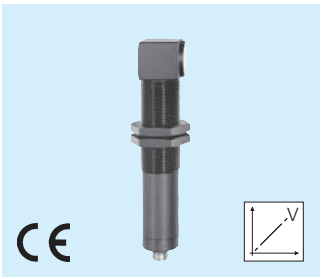
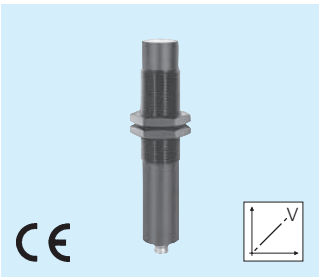
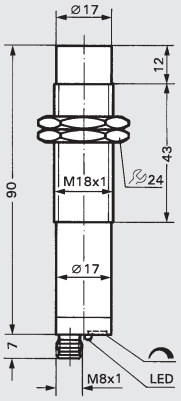
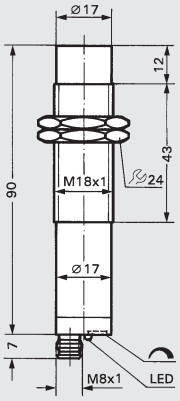
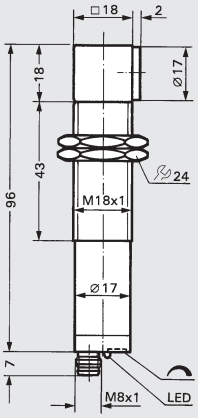
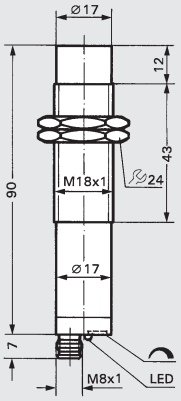


US 18 ... PSAK-TSSL

BN = Braun / brown
BK = Schwarz / black

Technische Daten	**Technical Data**	**bei + 20 °C, 24 V DC / at + 20 °C, 24 V DC**
Arbeitsbereich	**Scanning range**	
Sendefrequenz	Operating frequency	
Betriebsspannung	Service voltage	
Eigenstromaufnahme	Internal power consumption	
Schaltausgang	Binary output	
Schaltfrequenz	Switching frequency	
Ansprech- / Abfallzeit	Response / release time	
Schalthysterese axial	Switching hysteresis axial	
Genauigkeit	Accuracy	
Analogausgang	**Analog output**	
Linearität Analogausgang	Linearity analog output	
Temperaturdrift Analogausgang	Temperature drift analog output	
Temperaturdrift Luftstrecke	Temperature drift air path	
Lastwiderstand	Load resistance	
Welligkeit	Ripple	
Folgegeschwindigkeit	Follow-up speed	
Umgebungstemperatur	Ambient temperature	
Schutzart	Protection class	
Gehäusematerial	Casing material	

Bestelltabelle	**Ordering Table**	**Typ / Model**
Ausgang	**Output**	
NO	NO	
NO + analog	NO + analog	
Anschlusskabel (sep. Datenblatt)	Connecting cable (sep. data-sheet)	

Arbeitsbereich / Scanning range	1000 mm	Arbeitsbereich / Scanning range	1000 mm	Arbeitsbereich / Scanning range	1000 mm	Arbeitsbereich / Scanning range	1000 mm
							
							
mm (typ.) CAD ⇨ www.di-soric.de		mm (typ.) CAD ⇨ www.di-soric.de		mm (typ.) CAD ⇨ www.di-soric.de		mm (typ.) CAD ⇨ www.di-soric.de	
180 ... 1000 mm		**160 ... 1000 mm**		**160 ... 1000 mm**		**180 ... 1000 mm**	
180 kHz		180 kHz		180 kHz		180 kHz	
18 ... 33 V DC		18 ... 33 V DC		18 ... 33 V DC		18 ... 33 V DC	
ca. 35 mA		ca. 45 mA		ca. 45 mA		ca. 35 mA	
Transistor pnp, 100 mA, NO		Transistor pnp, 100 mA, NO		Transistor pnp, 100 mA, NO		Transistor pnp, 100 mA, NO	
ca. 7 Hz		ca. 16 Hz		ca. 16 Hz		ca. 7 Hz	
< 100 ms		< 70 ms		< 70 ms		< 100 ms	
30 ... 60 mm		30 ... 40 mm		30 ... 40 mm		30 ... 60 mm	
± 2 % / Sn max.		± 2 % / Sn max.		± 2 % / Sn max.		± 2 % / Sn max.	
–		**1,6 ... 10 V**		**1,6 ... 10 V**		**1,8 ... 10 V**	
–		< 1 % / Sn max.		< 1 % / Sn max.		< 1 % / Sn max.	
–		typ. + 4 mV/K		typ. + 4 mV/K		typ. + 4 mV/K	
–		- 0,17 %/K		- 0,17 %/K		- 0,17 %/K	
–		> 10 kΩ		> 10 kΩ		> 10 kΩ	
–		ca. ± 120 mV		ca. ± 120 mV		ca. ± 100 mV	
–		< 100 ms (95% Sn max.)		< 100 ms (95% Sn max.)		< 400 ms (95% Sn max.)	
-20 ... +50 °C		-20 ... +50 °C		-20 ... +50 °C		-20 ... +50 °C	
IP 67		IP 67		IP 67		IP 67	
Polyamid / polyamide		Polyamid / polyamide		Polyamid / polyamide		Polyamid / polyamide	
US 18 K 1003 PSK-TSSL		–		–		–	
–		**US 18 K 1000 PSAK-TSSL**		**US 18 KR 1000 PSAK-TSSL**		**US 18 K 1003 PSAK-TSSL**	
TK ...		TK ... /4		TK ... /4		TK ... /4	