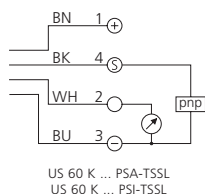


Ultraschall-Sensoren | Ultrasonic sensors

- 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

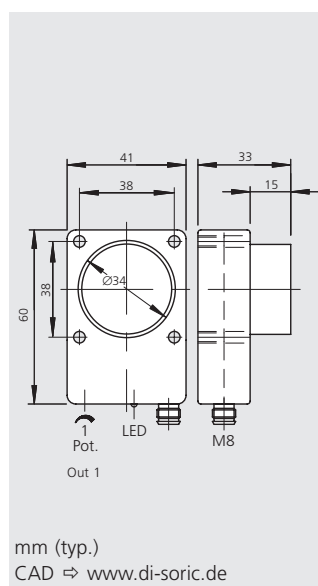
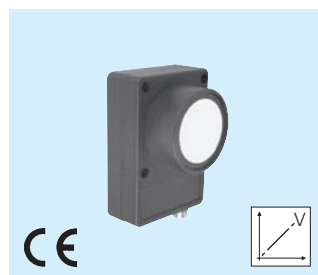
Anschlusschema Connection diagram



BN = Braun / brown BU = Blau / blue
BK = Schwarz / black WH = Weiß / white

SENSOTRONIK

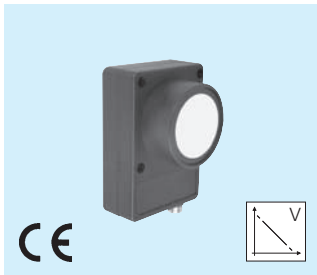
Arbeitsbereich **2500 mm**
Scanning range



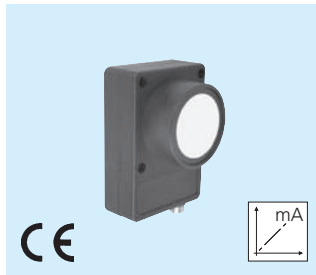
Technische Daten	Technical Data	bei + 20 °C, 24 V DC / at + 20 °C, 24 V DC
Arbeitsbereich	Scanning range	ca. 250 ... 2500 mm
Sendefrequenz	Operating frequency	120 kHz
Betriebsspannung	Service voltage	15 ... 30 V DC
Eigenstromaufnahme	Internal power consumption	ca. 60 mA
Schaltausgang	Binary output	Transistor pnp, 100 mA, NO
Schaltfrequenz	Switching frequency	ca. 3 Hz
Ansprech- / Abfallzeit	Response / release time	ca. 200 ms / 120 ms (50% Sn max.)
Schalthysterese axial	Switching hysteresis axial	ca. 40 mm
Genauigkeit	Accuracy	< ± 1 % / Sn max.
Analogausgang	Analog output	1 ... 10 V
Linearität Analogausgang	Linearity analog output	< ± 0,5 % / Sn max.
Lastwiderstand	Load resistance	> 10 kΩ
Welligkeit	Ripple	ca. ± 15 mV
Folgegeschwindigkeit	Follow-up speed	400 ms (95% Sn max.)
Auflösung	Resolution	ca. 0,1 % / Sn max.
Temperaturfehler	Temperature error	< 1 % (-20 ... +50 °C)
Umgebungstemperatur	Ambient temperature	-20 ... +50 °C
Schutzart	Protection class	IP 67

Bestelltabelle	Ordering Table	Typ / Model
Ausgang	Output	
2 x NO	2 x NO	–
NO + NC (antivalent)	NO + NC (exclusive OR)	–
NO + analog	NO + analog	US 60 K 2500 PSA-TSSL
2 x analog	2 x analog	–
Anschlusskabel (sep. Datenblatt)	Connecting cable (sep. data-sheet)	TK ... /4

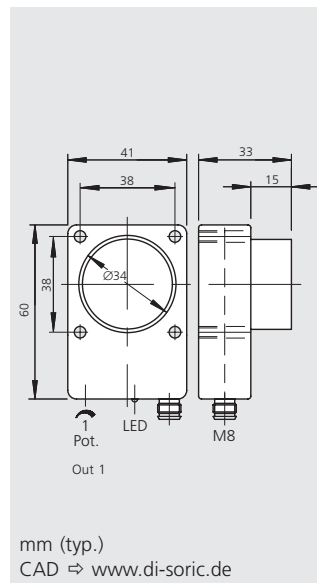
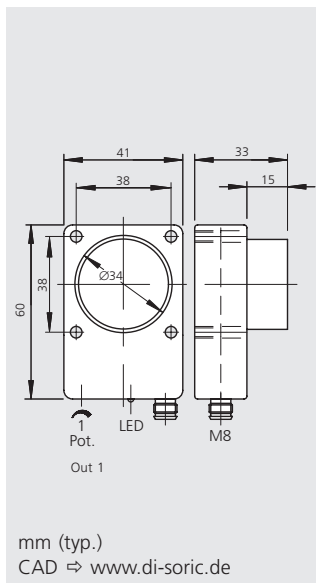
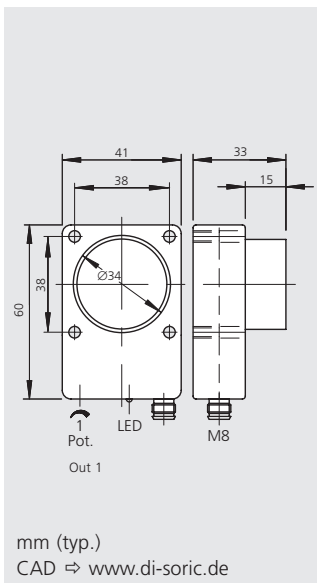
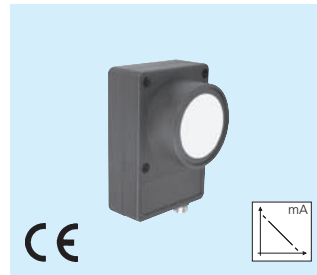
Arbeitsbereich 2500 mm
Scanning range



Arbeitsbereich 2500 mm
Scanning range



Arbeitsbereich 2500 mm
Scanning range



ca. 250 ... 2500 mm

120 kHz
15 ... 30 V DC
ca. 60 mA
Transistor pnp, 100 mA, NO
ca. 3 Hz
ca. 200 ms / 120 ms (50% Sn max.)
ca. 40 mm
< ± 1 % / Sn max.
9 ... 0 V
< ± 0,5 % / Sn max.
> 10 kΩ
ca. ± 15 mV
400 ms (95% Sn max.)
ca. 0,1 % / Sn max.
< 1 % (-20 ... +50 °C)
-20 ... +50 °C
IP 67

ca. 250 ... 2500 mm

120 kHz
15 ... 30 V DC
ca. 80 mA
Transistor pnp, 100 mA, NO
ca. 3 Hz
ca. 200 ms / 120 ms (50% Sn max.)
ca. 40 mm
< ± 1 % / Sn max.
5,6 ... 20 mA
< ± 0,5 % / Sn max.
max. 400 Ω
ca. ± 15 mV
400 ms (95% Sn max.)
ca. 0,1 % / Sn max.
< 1 % (-20 ... +50 °C)
-20 ... +50 °C
IP 67

ca. 250 ... 2500 mm

120 kHz
15 ... 30 V DC
ca. 80 mA
Transistor pnp, 100 mA, NO
ca. 3 Hz
ca. 200 ms / 120 ms (50% Sn max.)
ca. 40 mm
< ± 1 % / Sn max.
18,4 ... 4 mA
< ± 0,5 % / Sn max.
max. 400 Ω
ca. ± 15 mV
400 ms (95% Sn max.)
ca. 0,1 % / Sn max.
< 1 % (-20 ... +50 °C)
-20 ... +50 °C
IP 67

–

–

US 60 K 2500 PSA-I-TSSL

–

TK ... /4

–

–

US 60 K 2500 PSI-TSSL

–

TK ... /4

–

–

US 60 K 2500 PSI-I-TSSL

–

TK ... /4