STORBTECH

Installation Instruction for Sensor NODE

ND-BLE-P10BS
ND-BLE-RS232

CAUTION

PRODUCT DAMAGE

- Do not exceed the overpressure.
- Use non-abrasive, chemically compatible media to prevent damage to the diaphragm or port materials.
- Incorrect wiring or mounting.
- Ensure torque specifications are determined for the specific application.
- Use appropriate tools (open ended wrench) to install transducers. Start by hand to avoid cross threading.
- Do not subject the transducers to high temperatures from soldering, brazing or welding system pipes.

Failure to comply with these instructions may result in product damage.

Overpressure:

If the overpressure rating is exceeded, the life of the transducer may be reduced and failure may occur. Both static and dynamic overpressure must be considered. Hydraulic pressure fluctuations can have very high and very fast peak pressures. A pressure snubber may be used to reduce the peak pressure applied to the transducer.

Media Compatibility:

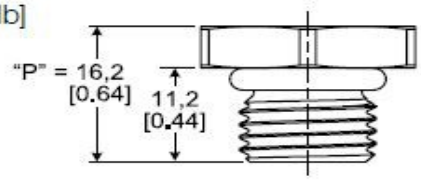
Wetted part is 304 stainless steel, epoxy, alumina, glass and silicon.

1	Refrigerant R410A
2	Refrigerant R134A
3	Refrigerant R123ZE
4	Refrigerant mixture R245Fa and transdichloroethylene
5	Engine oil 10W30
6	Brake fluid DOT3
7	Hydraulic fluid
8	Tap water
9	Compressed air

Pressure Port:

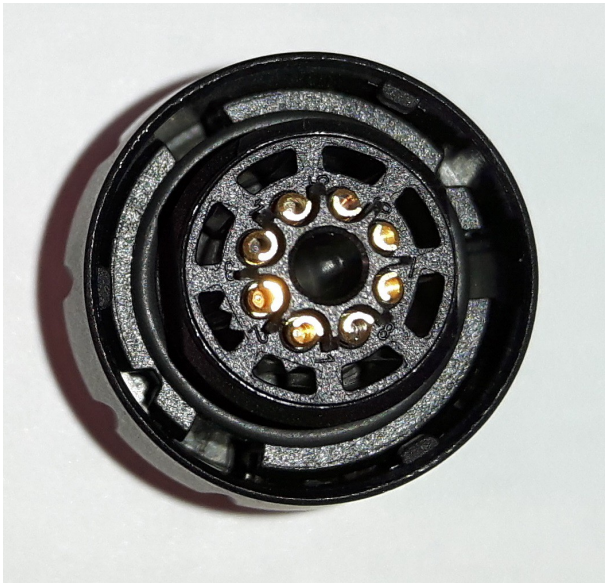
G1/4 (ISO 1179-3)

Seal[3,4]: O-ring
Mating geometry: ISO 1179-1
Installation torque[2]: 50 N m [38.9 ft-lb]



- Seals for the pressure port are included and assembled to the sensors.
- O-ring material is nitrile 70 durometer -30 ºC to 125 ºC.

Wiring:

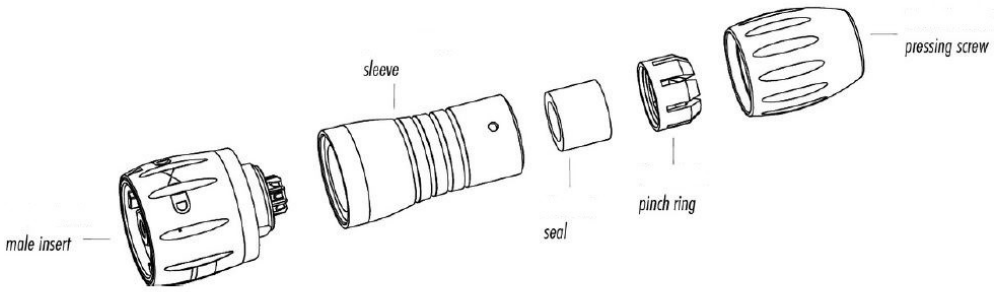


View from the back of the cable connector, to help allocate PIN 1 is marked with 1 arrow, PIN 2 is marked with 2 arrows in a clockwise direction.

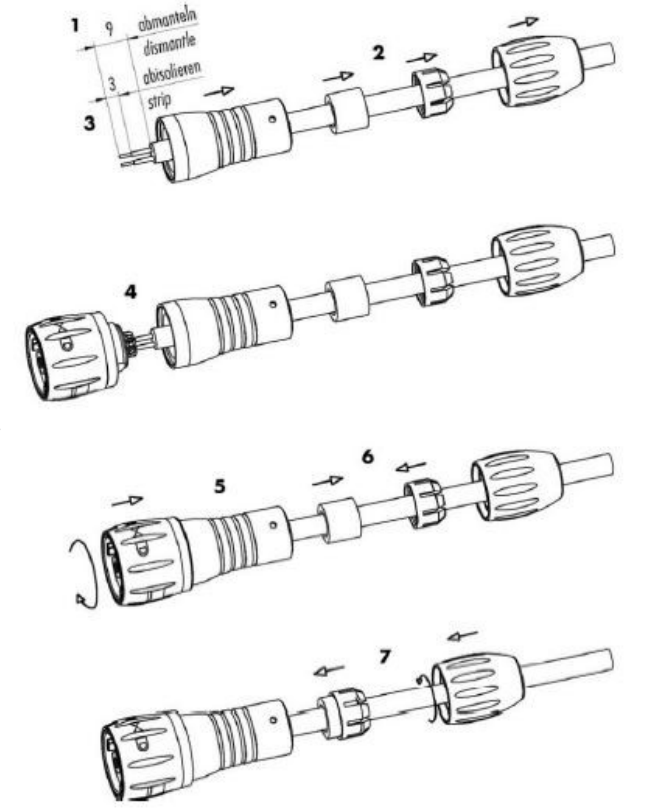
PIN	ND-BLE-P10BS	ND-BLE-RS232
1	**+ Vdc**	**+ Vdc**
2	NC	**TX**
3	NC	**RX**
4	**0 Vdc**	**0 Vdc**
5	NC	NC
6	NC	NC
7	NC	NC
8	NC	NC

- NC – connections to these pins may result in product damage.
- Maximum wire gauge (mm) 0.25mm^2
- Shield cable (single end) may be needed on the RS232 cable.

Cable assembly:



1. Strip to 9mm length and take off the cable jacket.
2. Bead pressing screw, pinch ring, seal and distance sleeve to cable.
3. Strip the insulation off the wires (L=3mm) and tin them.
4. Solder inserts.
5. Put bayonet adaptor to the thread of the distance sleeve and screw it with slight pressure in the direction of the arrow.
6. Push pinch ring over sealing ring to block.
7. Push pressing screw together and clamp-sealing unit towards sleeve and screw tightly.



Mounting:

When mounting the sensor NODE, make sure both the stainless steel and the plastic parts are secured separately, see example photo below.

⚠ WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARRANTY / REMEDY

Storbtech warrants goods of its manufacture as being free of defective materials and faulty workmanship. Storbtech's standard product warranty applies unless agreed to otherwise by Storbtech in writing. If warranted goods are returned to Storbtech during the period of coverage, Storbtech will repair or replace, at its option, without charge those items it finds defective. In no event shall Storbtech be liable for consequential, special, or indirect damages.

While we provide application assistance personally, through our literature and website, it is up to the customer to determine the suitability of the product in the application.

Specification may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

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