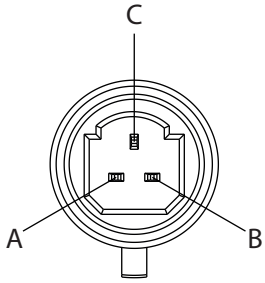
Technical and descriptive characteristics — Pressure transducer - Series ND-40

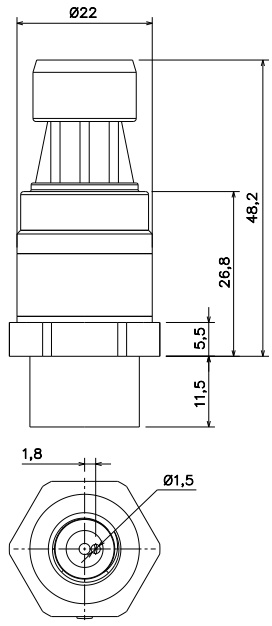
Description

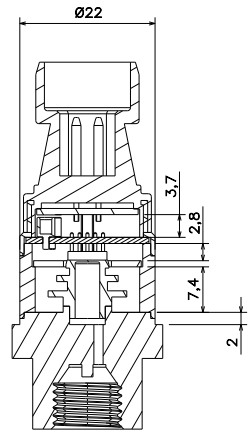
ND-40 pressure transducers are ideal for air conditioning and refrigeration system applications where reliability and precision in the long time are fundamental.
The sensitive element in metal material guarantees an excellent resistance to many fluids and gases.
The ND-40 series pressure transducers are characterized by high repeatability and reduced hysteresis errors (typically less than 0.03% of full scale).
The accuracy of the instrument remains guaranteed even after millions of measurement cycles.
This product is therefore virtually free of measurement drifts.
The ND-40 series offers proven reliability at a competitive price.



Electrical connection :

Power Supply	5V, 8 ~ 30VDC	8 ~ 30VDC
Output	0,5 ~ 4,5V 0 ~ 5V 1 ~ 5V	4 ~ 20mA
A	VDD	SUPPLY (+)
B	GND	NC
C	OUTPUT	SUPPLY (-)





Technical features

Accuracy: ± 0.5% F.S.
Hysteresis and Repeatability: ± 0.1% F.S.
Working temperature: - 40 °C ... +125 °C
Compensated Temp. Range: - 20 °C to 80 °C
Response time: 2mS
Work cycles: 5 millions cycles
Vibration proof: 200m/s² (10 ~ 2000Hz)
Weight: 63g
Process connection: 7/16-18 UNF

Pressure

Pressure range: - 1 + 34 bar (other on request)
Overpressure: 2x F.S.
Burst pressure: 10x F.S.

Electrical features

Supply voltage: 5V DC ± 0.25 V DC (Other on request)
Outupt signals: 0.5 ~ 4.5 V (Other on request)
Overvoltage protection: 16 V DC
Reverse voltage protection: -14 V DC
Short-circuit protection: Yes
Withstand voltage: 500V AC (1 minute between case and all terminals tied)
Insulation resistance: Greater than 100MΩ (20V DC between case and all terminal tied)

Construction features

Body material: AISI 303 / AISI 316
Wetted Port material: AISI 630
Connection: Metri-Pack (Packard #12065287)
Enclosure: IP67

Options

Process connections available
Pressure ranges avaiable
Housing material

Application

Automotive
Heating
Air conditioning
Refrigeration (HVACR)

SP- ND-40 UK - Rev.2 Ed.23

Ordering information

Pressure range / Process connection / Output signal / Electrical connection / Options

Nava s.a.s. di Nava M. & C.
Via Trieste, 10
22037 Ponte Lambro (Como)
tel. 031/620610
fax 031/621572
www.nava.it
E-Mail: info@nava.it