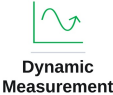


PRESSURE TRANSDUCER, mV/V, HIGH ACCURACY



- PASSIVE BRIDGE 1 OR 2 mV/V
- 5 TO 2000 bar
- IP67 · MIL4M CONNECTOR



NOMINAL PRESSURE (FS)

Pressure type	Nominal pressure (FS)	Zero at	Code
Gauge (R)	5 · 10 · 20 bar	atmospheric pressure	R
Absolute (A)	50 · 100 · 250 · 350 bar	absolute vacuum	A
Absolute (A)	500 · 700 · 1000 bar	absolute vacuum	A
Absolute (A)	1500 · 2000 bar	absolute vacuum	A

Two sensitivities: 1 mV/V with a combined error of $\leq \pm 0.15\%$ or 2 mV/V with $\leq \pm 0.10\%$ — the most accurate passive transducer of the series. The ranges from 1000 bar upwards carry the G 1/2" process coupling. Recommended gasket USIT A 63-11. Seat diameter ØF 6 mm up to 10 bar, 7 mm from 20 bar.



TECHNICAL DATA

PRECISION

Combined error, 1 mV/V	$\leq \pm 0.15 \%$
Combined error, 2 mV/V	$\leq \pm 0.10 \%$
Sensitivity tolerance	$\leq \pm 0.1 \%$
Temperature effect on zero (1 °C)	$\leq \pm 0.015 \%$
Temperature effect on sensitivity (1 °C)	$\leq \pm 0.015 \%$
Zero balance	$\leq \pm 1 \%$
Response frequency	20 to 100 kHz
Reference temperature	+23 °C

MECHANICAL PROPERTIES

Sensor material	Stainless steel 17-4 PH, monolithic
Sealing	Entirely laser welded, resin encapsulated
Protection class	IP67 · EN 60529
Process coupling	G 1/4" male · G 1/2" male · BSP male
Recommended gasket	USIT A 63-11
Tightening	Wrench 27 mm · 28 N·m
Body · length	Ø 25 mm · 70 mm · thread 15 mm
Working temperature range	-10...+110 °C
Storage temperature range	-20...+110 °C

FIELD OF USE — Reference and laboratory measurement, test benches and calibration rigs read by an existing bridge amplifier.

MECHANICAL LIMITS

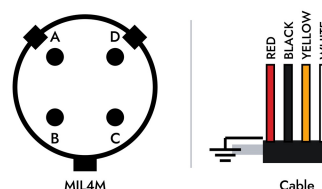
Service pressure	100 %	May be applied continuously without leaving the specification.
Max. permissible pressure	150 %	May be applied without permanent change of the characteristics.
Breaking pressure	> 300 %	Pressure at which mechanical failure may occur.
Highly dynamic pressure	75 %	Amplitude permitted for rapidly alternating pressure.

All four values refer to the nominal pressure of the version ordered.

ELECTRICAL PROPERTIES

Output signal	1 mV/V or 2 mV/V, $\leq \pm 0.1 \%$ tolerance
Nominal power supply	1–15 V
Max. power supply	18 V
Input resistance	1080 $\Omega \pm 20$
Output resistance	1000 $\Omega \pm 5$
Insulation resistance	> 2 G Ω
Electrical connection	MIL4M connector with a 5 m cable
Alternative	M12x1 connector or a moulded cable

ELECTRICAL CONNECTION

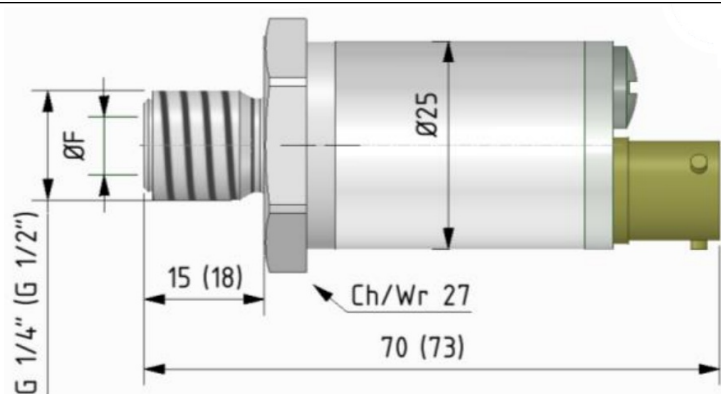


BRIDGE	MIL4M	Cable
Excitation and output	A · B · C · D	RED · BLACK · YELLOW · WHITE
Shield	Body of the connector	On the lock nut

Terminal assignment as in the manufacturer's connection diagram; the drawing does not pair the letters with the wire colours. The shield is connected to the body of the connector.



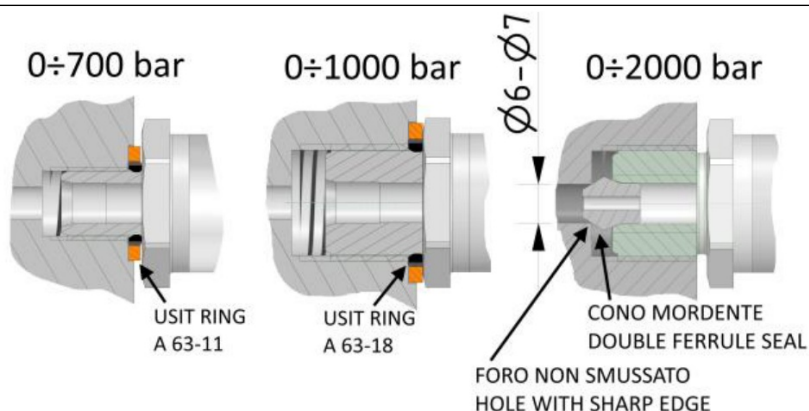
DIMENSIONS (mm)



Nominal Pressure ≤ 10 bar $\varnothing F = 6$ mm

Nominal Pressure ≥ 20 bar $\varnothing F = 7$ mm

Dimensions in mm. Values in brackets apply to the G 1/2" process coupling; seat diameter $\varnothing F$ 6 mm up to 10 bar, 7 mm from 20 bar.



Typical installation. Up to 700 bar with a USIT ring A 63-11, up to 1000 bar with a USIT ring A 63-18, above that with a double ferrule seal in a hole with a sharp edge, $\varnothing 6$ to $\varnothing 7$.



COMPLIANCE AND CERTIFICATION

Protection rating	IP67 according to EN 60529 · entirely laser welded and resin encapsulated
Compliance	CE, RoHS, REACH
Applied standards	EN 61326-1 (2013) · EN 61010-1 (2013)
Directives and regulations	2014/30/EU · 2014/35/EU · 2011/65/EU (RoHS) · 2012/19/EU (WEEE) · 1907/2006 (REACH)
Quality system	Certified according to EN ISO 9001 · Dasa-Rägister IQ-1100-01
Declaration of conformity	Issued by the manufacturer on 01/04/2016, covering all options listed in the sales catalogue
On request	Calibration report

OPTIONS AND ACCESSORIES

Item	Availability	Data
Sensitivity	Option	1 mV/V ($\leq \pm 0.15 \%$) or 2 mV/V ($\leq \pm 0.10 \%$)
M12x1 connector	Option	Instead of the MIL4M connector
Gasket	Recommended	USIT A 63-11
Calibration report	On request	Factory calibration

