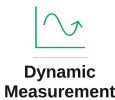


PRESSURE TRANSDUCER, mV/V OUTPUT



- PASSIVE BRIDGE 1 OR 2 mV/V
- 10 TO 700 bar
- IP67 · G 1/4" FEMALE



NOMINAL PRESSURE (FS)

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

Two sensitivities: 1 mV/V with a combined error of $\leq \pm 0.50\%$ or 2 mV/V with $\leq \pm 0.20\%$. The TP1A version delivers 0–5 V instead of the bridge signal. The process coupling is a G 1/4" FEMALE thread — unusual in this series and worth checking against the port it is to sit in. Recommended gasket USIT A 63-11.



TECHNICAL DATA

PRECISION

Combined error, 1 mV/V	$\leq \pm 0.50 \%$
Combined error, 2 mV/V	$\leq \pm 0.20 \%$
Temperature effect on zero (1 °C)	$\leq \pm 0.020 \%$
Temperature effect on sensitivity (1 °C)	$\leq \pm 0.015 \%$
Zero balance	$\leq \pm 0.5 \%$
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" female · BSP female
Recommended gasket	USIT A 63-11
Tightening	Wrench 22 mm · 25 N·m
Body · length	Ø 25 mm · 48.5 mm · thread 11 mm
Working temperature range	-10...+110 °C
Storage temperature range	-20...+110 °C

FIELD OF USE — Test benches, materials testing machines, hydraulics and laboratory use — wherever a passive bridge signal is read by an existing amplifier.

MECHANICAL LIMITS

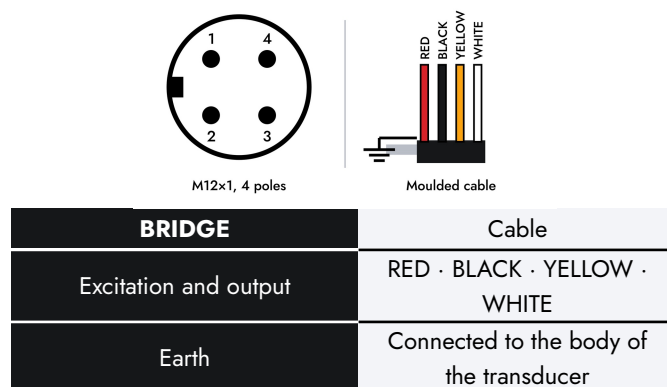
Service pressure	100 %	May be applied continuously without leaving the specification.
Max. permissible pressure	150 %	May be applied without permanent change of the characteristics.
Breaking pressure	> 300 %	Pressure at which mechanical failure may occur.
Highly dynamic pressure	75 %	Amplitude permitted 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, $\leq \pm 0.5 \%$ tolerance
Output signal, TP1A	0–5 V
Nominal power supply	1–15 V
Max. power supply	18 V
Input resistance	560 Ω typical
Output resistance	500 Ω typical
Insulation resistance	> 2 G Ω
Electrical connection	M12x1 male connector
Cable	Moulded shielded PVC, 3 m

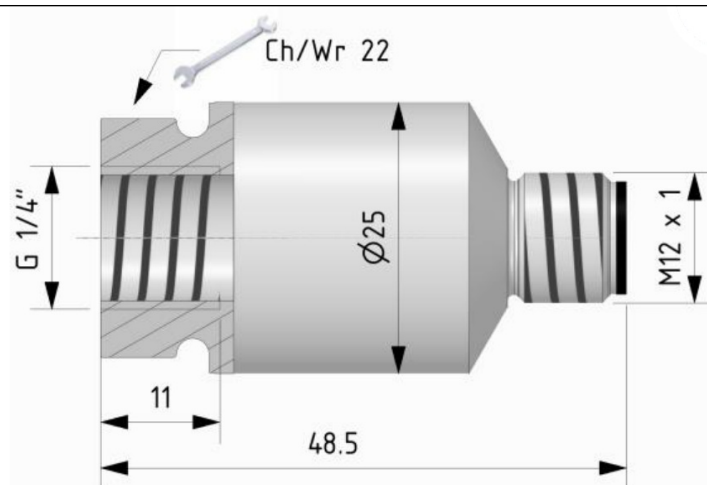
ELECTRICAL CONNECTION



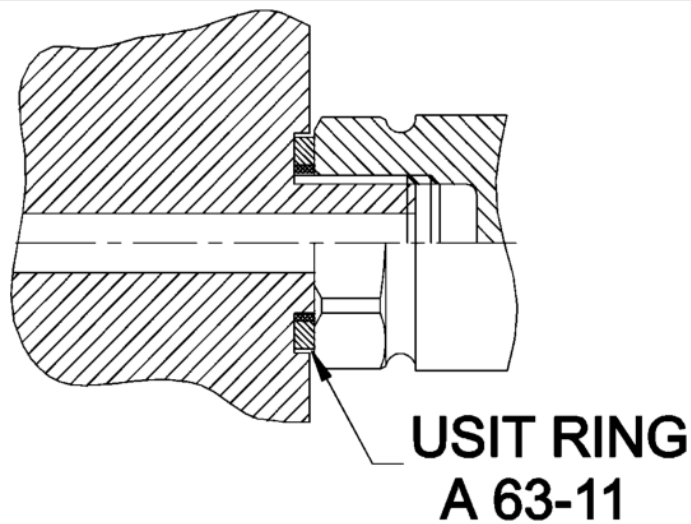
Terminal assignment as in the manufacturer's connection diagram; the drawing does not name the wire colours individually. Pin numbering refers to the male connector seen from the front.



DIMENSIONS (mm)



Dimensions in mm. G 1/4" female process coupling, M12x1 connector thread.



Typical installation with a USIT ring A 63-11 against the face of the port.



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 ($\leq \pm 0.50\%$) or 2 mV/V ($\leq \pm 0.20\%$)
Voltage output	Option	TP1A version with 0–5 V instead of the bridge signal
Gasket	Recommended	USIT A 63-11
Calibration report	On request	Factory calibration

