



Applications

- Machine building
- Hydraulics and pneumatics
- Pumps
- Chemical industry

Special features

- Measuring ranges from 0 ... 0.1 to 0 ... 1,000 bar
- Non-linearity 0.2 % of span (BFSL)
- Output signals: 4 ... 20 mA, DC 0 ... 10 V, DC 0 ... 5 V and others
- Electrical connections: Angular connector form A, circular connector M12 x 1, various cable outlets and others
- Zero point and span adjustable via internal potentiometer

Description

The pressure transmitter for general industrial applications is the ideal solution for customers with demanding measuring requirements. It features a very good accuracy, a robust design and an exceptional number of variants, meaning it can be suited to the widest range of applications.

Versatile

The model offers continuous measuring ranges between 0 ... 0.1 and 0 ... 1,000 bar in all the major units. These measuring ranges can be combined in almost any way with all the standard industry output signals, the most common international process connections and a wide number of electrical connections. Furthermore, it offers numerous options, such as different accuracy classes, extended temperature ranges and customer-specific pin assignments.



High quality

The robust design turns the model into a very high quality product, which even the most adverse environmental conditions cannot affect. Whether with the lowest temperatures when used outdoors, with extreme shock and vibration in machine building or with aggressive media in the chemical industry, this transmitter can meet all requirements.

Availability

All variants described in this data sheet are available on very short lead times. For particularly urgent demands, there is a sizeable stock available.

Operating conditions

Ingress protection (per IEC 60529)

For ingress protections see "Electrical connections"

The stated ingress protection only applies when plugged in using mating connectors that have the appropriate ingress protection

Vibration resistance (per IEC 60068-2-6)

20 g

Shock resistance (per IEC 60068-2-27)

1,000 g (mechanical)

Permissible temperature ranges

	Standard	Option
Medium	-30 ... +100 °C	-40 ... +125 °C
Ambient	-20 ... +80 °C	-20 ... +80 °C
Storage	-40 ... +100 °C	-40 ... +100 °C

Process connections

Standard	Thread size
EN 837	G ¼ B G ½ B
DIN 3852-E	G ¼ A 1)
-	G ¼ female
ANSI/ASME B1.20.1	¼ NPT ½ NPT
SAE J514 E	7/16-20 UNF with 74° taper
-	M20 x 1.5
-	G ½ male / G ¼ female
ISO 7	R ¼

1) Maximum overload safety 600 bar

Other process connections on request

Materials

Wetted parts

Stainless steel

Non-wetted parts

- Case: Stainless steel
- Internal pressure transmission medium: Synthetic oil
- Clamping nut: PA
- Angular connector: PA
- O-rings at the clamping nut: NBR
- Flat gasket: VMQ

Instruments with a measuring range of > 25 bar relative do not contain any pressure transmission medium (dry measuring cell).

Abbildungen unverbindlich, Konstruktions-, Maß- und Werkstoffänderungen vorbehalten
illustrations are non-binding, all designs, configurations, measurements and materials are subject to change without prior notice

Electrical connections

Electrical connection	Ingress protection	Wire cross-section	Cable diameter	Cable lengths
Angular connector DIN 175301-803 A	IP65	max. 1.5 mm ²	6 ... 8 mm	-
Angular connector DIN 175301-803 with ½ NPT	IP65	max. 1.5 mm ²	-	-
Circular connector M12 x 1 (4-pin)	IP67	-	-	-
Bayonet connector (6-pin)	IP67	-	-	-
½ NPT conduit male, with cable outlet	IP67	3 x 0.5 mm ²	6.8 mm	1.5 m, 3 m, 5 m, 10 m, 5 ft, 10 ft, 20 ft, 30 ft, others on request
Cable outlet				
■ Standard	IP67	3 x 0.5 mm ²	6.8 mm	1.5 m, 3 m, 5 m, 10 m, 5 ft, 10 ft, 20 ft, 30 ft, others on request
■ not adjustable	IP68	3 x 0.5 mm ²	6.8 mm	1.5 m, 3 m, 5 m, 10 m, 5 ft, 10 ft, 20 ft, 30 ft, others on request
■ adjustable	IP68	3 x 0.5 mm ²	6.8 mm	1.5 m, 3 m, 5 m, 10 m, 5 ft, 10 ft, 20 ft, 30 ft, others on request

Short-circuit resistance

S+ vs. U-

Reverse polarity protection

U+ vs. U-

Overvoltage protection

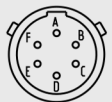
DC 36 V

Insulation voltage

DC 500 V

Connection diagrams

Angular connector DIN 175301-803 A			
		2-wire	3-wire
	U+	1	1
	U-	2	2
	S+	-	3

Bayonet connector (6-pin)			
		2-wire	3-wire
	U+	A	A
	U-	B	B
	S+	-	C

Angular connector DIN 175301-803 A			
		2-wire	3-wire
	U+	1	1
	U-	2	2
	S+	-	3

½ NPT conduit male, with cable outlet			
		2-wire	3-wire
	U+	red (RD)	red (RD)
	U-	black (BK)	black (BK)
	S+	-	brown (BN)

Circular connector M12 x 1 (4-pin)			
		2-wire	3-wire
	U+	1	1
	U-	3	3
	S+	-	4

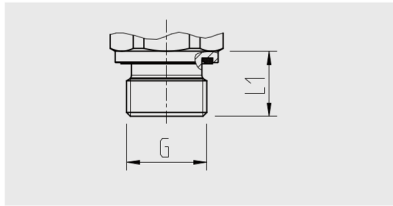
Cable outlets			
		2-wire	3-wire
	U+	brown (BN)	brown (BN)
	U-	green (GN)	green (GN)
	S+	-	white (WH)
	Shield	grey (GY)	grey (GY)

Logo	Description	Country
	EU declaration of conformity ■ EMC directive EN 61326 emission (group 1, class B) and interference immunity (industrial application) ■ Pressure equipment directive ■ RoHS directive	European Union
	CSA Safety (e.g. electr. safety, overpressure, ...)	Canada
	EAC EMC directive	Eurasian Economic Community
	GOST Metrology, measurement technology	Russia
	KazInMetr Metrology, measurement technology	Kazakhstan
-	MTSCHS Permission for commissioning	Kazakhstan
	BelGIM Metrology, measurement technology	Belarus
	UkrSEPRO Metrology, measurement technology	Ukraine
	Uzstandard Metrology, measurement technology	Uzbekistan
-	CRN Safety (e.g. electr. safety, overpressure, ...)	Canada

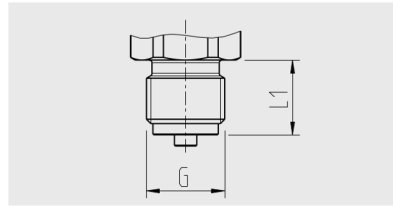
Manufacturer's information and certifications

Logo	Description
-	China RoHS directive

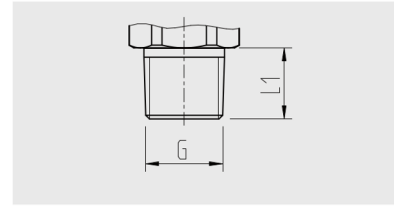
Process connections



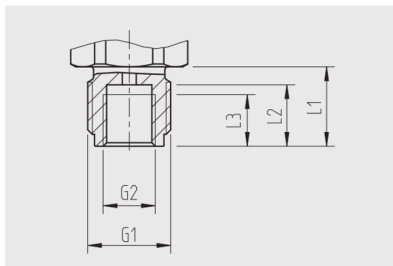
G	L1
G 1/4 A	12



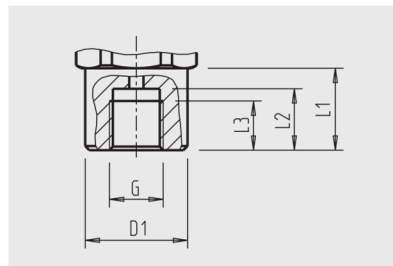
G	L1
G 1/4 B	13
G 1/2 B	20
M20 x 1,5	20



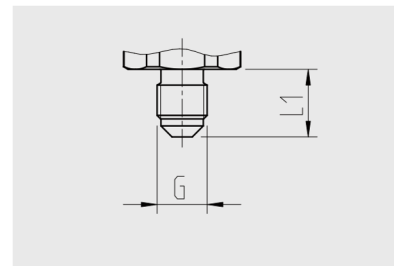
G	L1
1/4 NPT	13
1/2 NPT	19
R 1/4	13



G1	G2	L1	L2	L3
G 1/2 B	G 1/4	20	15,5	13



G	D1	L1	L2	L3
G 1/4 female	25	20	15	12



G	L1
7/16-20 UNF with 74° taper	15

Accessories and spare parts

Mating connector

Description	Order number		
	without cable	with 2 m cable	with 5 m cable
Angular connector DIN 175301-803 A			
■ with cable gland, metric	11427567	11225793	11250186
■ with cable gland, conduit	11022485	-	-
Circular connector M12 x 1 (4-pin)			
■ straight	2421262	11250780	11250259
■ angled	2421270	11250798	11250232

Sealings for mating connectors

Mating connector	Order number
Angular connector DIN 175301-803 A	1576240

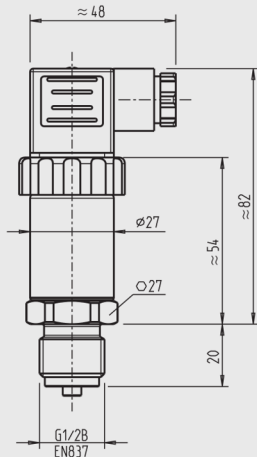
Sealings for process connection

Thread size	Order number			
	Cu	Stainless steel	NBR	FKM
G 1/4 B EN 837	11250810	11250844	-	-
G 1/2 B EN 837	11250861	11251042	-	-
G 1/4 A DIN 3852-E	-	-	1537857	1576534
M20 x 1.5	11250861	11251042	-	-

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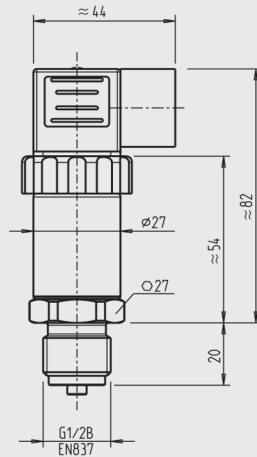
Dimensions in mm

with angular connector DIN 175301-803 A



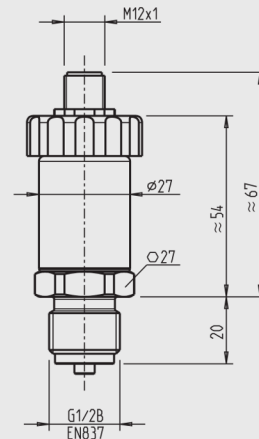
Weight: approx. 0.2 kg

with angular connector DIN 175301-803
with ½ NPT



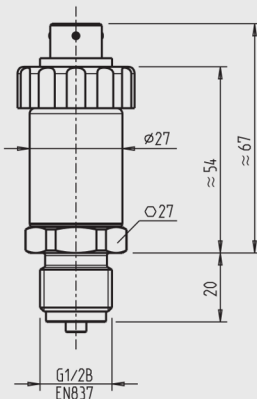
Weight: approx. 0.2 kg

with circular connector M12 x 1 (4-pin)



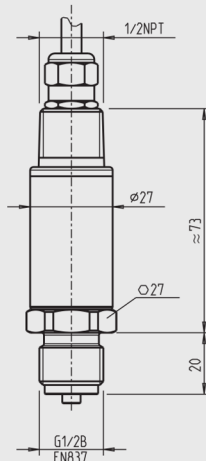
Weight: approx. 0.2 kg

with bayonet connector (6-pin)



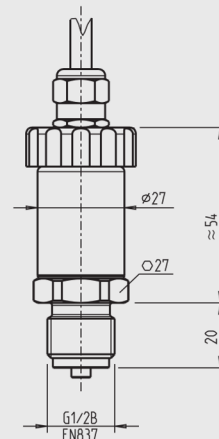
Weight: approx. 0.2 kg

with ½ NPT conduit male, with cable outlet



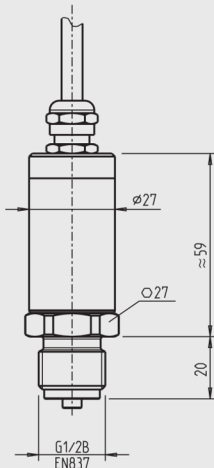
Weight: approx. 0.2 kg

with cable outlet, standard



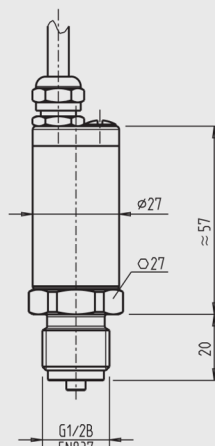
Weight: approx. 0.2 kg

with cable outlet, not adjustable



Weight: approx. 0.2 kg

with cable outlet, adjustable



Weight: approx. 0.2 kg