



- industrial pressure transmitter for low pressure
- nominal pressure: from 0...100 mbar up to 0...40 bar
- output signals: 2-wire: 4...20 mA; 3-wire: 0...20 mA / 0...10 V, others
- stainless steel sensor
- accuracy 0.35% / 0.25% span
- perfect thermal behaviour
- excellent long term stability
- pressure port G 1/2" flush from 100 mbar
- options: pressure sensor welded
- certified for contact with drinking water by the Polish National Institute of Public Health (PZH) - EPDM version

The modular concept of the device allows to combine different stainless steel sensors and electronic modules with a variety of electrical and mechanical versions. Thus a diversity of variations is created, meeting almost all requirements in industrial applications.



Energy Industry

TECHNICAL DATA

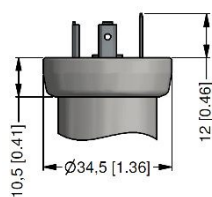
Permissible temperatures	
Permissible temperatures	medium: -40 ... 125 °C electronics / environment: -40 ... 85 °C storage: -40 ... 100 °C

Electrical protection	
Short-circuit protection	permanent
Reverse polarity protection	no damage, but also no function
Electromagnetic compatibility	emission and immunity according to EN 61326
Integrated overvoltage protection (ground wire) in accordance with CSN EN 61000-4-5 (1 kV)- version with the output signal 4...20 mA / 2-wire	
Mechanical stability	
Vibration	10 g RMS (25 ... 2000 Hz) according to DIN EN 60068-2-6
Shock	500 g / 1 msec according to DIN EN 60068-2-27
Materials	
Pressure port	stainless steel 1.4404 (316 L)
Housing	stainless steel 1.4404 (316 L)
Option field housing	stainless steel 1.4301 (304), cable gland M16x1.5, brass, nickel plated (clamping range 2...8 mm)
Seals (media wetted)	standard: FKM options: EPDM (with drinking water certificate) NBR welded version ² (for PN ≤ 40 bar) others on request
Diaphragm	stainless steel 1.4435 (316 L)
Media wetted parts	pressure port, seals, diaphragm
² welded version only with pressure ports according to EN 837	
Miscellaneous	
Current consumption	signal output current: max. 25 mA signal output voltage: max. 7 mA
Weight	approx. 200 g
Installation position	any ³
Operational life	100 million load cycles
CE-conformity	EMC Directive: 2014/30/EU
³ Pressure transmitters are calibrated in a vertical position with the pressure connection down. If this position is changed on installation there can be slight deviations in the zero point for pressure ranges $P_N \leq 1$ bar.	

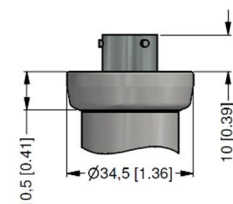
ELECTRICAL CONNECTION

Wiring diagrams							
2-wire-system (current)				3-wire-system (current / voltage)			
Pin configuration							
Electrical connection	ISO 4400	Binder 723 (5-pin)	M12x1 / metal (4-pin)	Bayonet MIL-C-26482 (10-6)		field housing	cable colours (DIN 47100)
Supply +	1	3	1	A	A	IN +	wh (white)
Supply -	2	4	2	B	D	IN -	bn (brown)
Signal + (for 3-wire)	3	1	3	-	B	OUT+	gn (green)
Shield	ground pin	5	4	pressure port			gn/ye (green / yellow)

standard

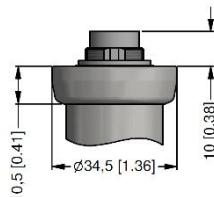


ISO 4400
(IP 65)

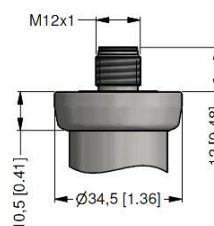


Bayonet MIL-C-26482 (10-6)
(IP 67)

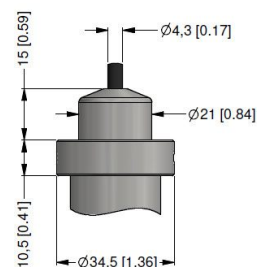
option



Binder Series 723 5-pin
(IP 67)



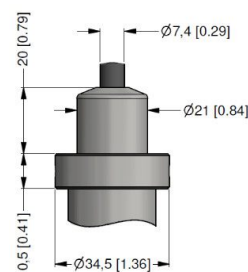
M12x1 4-pin
(IP 67)



cable gland PG7 / cable length specify
(IP 67) ⁵



field housing
(IP 67)



cable outlet, cable with ventilation tube
(IP 68) ⁶

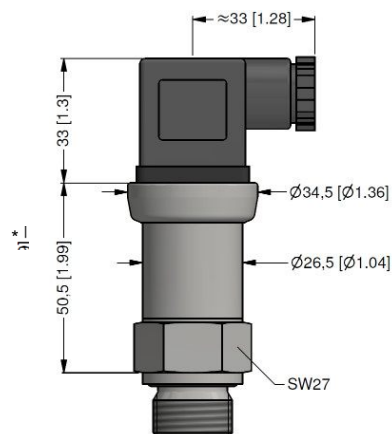
⇒ universal field housing stainless steel 1.4404 (316 L) with cable gland M20x1.5 (ordering code 880) and other versions on request

⁵ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70°C)

⁶ different cable types and lengths available, permissible temperature depends on kind of cable

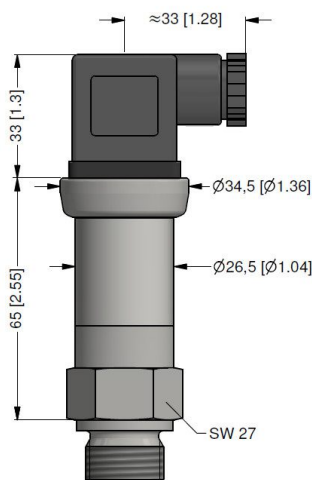
DIMENSION DRAWINGS

standard for accuracy 0.5 % / 0.35 % / 0.25 %



G1/2" DIN 3852
with ISO 4400

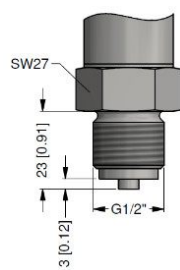
standard for accuracy 0.25 % with calibration list



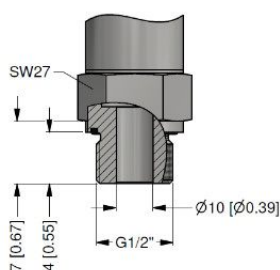
G1/2" DIN 3852
/ ISO 4400

*with electrical connection Bayonet MIL-C-26482 (10-6) increases the length of devices by 5 mm

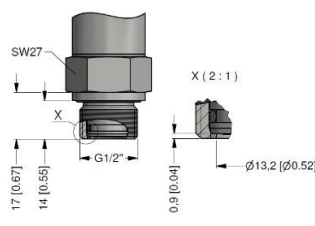
options



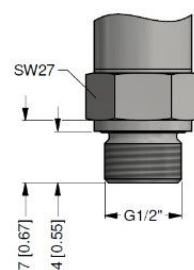
G1/2" EN 837



G1/2" open port



G1/2" DIN 3852
with flush sensor

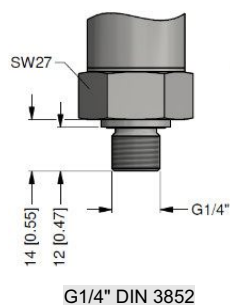


G1/2" DIN 3852

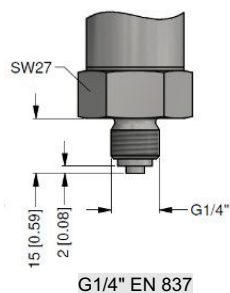


Pressure transmitters

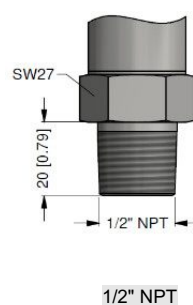
options



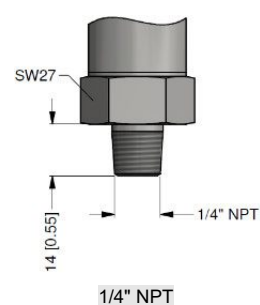
G1/4" DIN 3852



G1/4" EN 837



1/2" NPT



1/4" NPT

⇒ metric threads and other versions on request

ORDER CODE

CCA-P-331- - - - - - -

Pressure

Gauge

1 1 0

Absolute (possible from 0.4 bar)

1 1 1

Input [bar]

0 ... 0,1 (absolute pressure possible from 0.4 bar)

1

0 ... 0,16 (absolute pressure possible from 0.4 bar)

1

0 ... 0,25 (absolute pressure possible from 0.4 bar)

2

0 ... 0,4

4

0 ... 0,6

6

0 ... 1

1

0 ... 1,6

1

0 ... 2,5

2

0 ... 4

4

0 ... 6

6

0 ... 10

1

0 ... 16

1

0 ... 25

2

0 ... 40

4

-1 ... 0

X

Customer

9

Customer - underpressure

X

Customer (0,5 ≤ P_N < 1 bar)

9

Customer (0,25 ≤ P_N < 0,5 bar)

9

Customer (0,1 ≤ P_N < 0,25 bar)

9

Underpressure (0,5 ≤ P_N < 1 bar)

X

Underpressure (0,25 ≤ P_N < 0,5 bar)

X

Underpressure (0,1 ≤ P_N < 0,25 bar)

X

Output

4 ... 20 mA / 2-wire

1

0 ... 20 mA / 3-wire

2

0 ... 10 V / 3-wire

3

0 ... 5 V / 3-wire

4

0 ... 1 V / 3-wire

5

1 ... 6 V / 3-wire

6

4 ... 20 mA / 3-wire

7

10 ... 90% of V_s / 3-wire ratiometric (V_s = 2,7 ... 5 V DC)

R

Customer

9

Accuracy

0,5 %

5

0,35 % (P_N ≥ 0,4 bar)

3

0,25 % (P_N ≥ 0,4 bar)

2

0,2 % (only range P_N ≥ 1 bar + 4...20 mA / 2-wire + connector 100)

B

0,5 % including Calibration Certificate

T

0,35 % including Calibration Certificate (P_N ≥ 0,4 bar)

S

0,25 % including Calibration Certificate (P_N ≥ 0,4 bar)

R

Table of measured values for accuracy 0,5 %

N

Table of measured values for accuracy 0,35 %

M

Customer

9



2 - only for $P_N \leq 40$ bar

4 - drinking water certification only possible with EPDM seal

