

SS635 series IP68 grade water-proof pressure sensors

Descriptions

SS635 series waterproof IP68 pressure transducer is modular designed by piezoresistive technology, includes an IP68 rated connection and submersible polyurethane jacketed cable along with a variety of pressure port options. This series features an enhanced double O-ring(viton) structure and a low-cost solution for applications requiring a pressure transducer for use in wet or submerged environments, is suitable for measurement of liquid or gas pressure, even for difficult media such as contaminated water and mildly corrosive fluids.



SS635 series is fitted with a traditional G1/2" pressure connection (various pressure connections/thread can be customized by SENDO powerful customization system), as standard to give the best in media compatibility, available with standard voltage and 4-20mA current outputs, give accurate readings at pressure ranges from 100 mbar.

Technical data

Performance (EN 60770)

Accuracy @ 25 °C	± 0.5% F.S. (incl. non-linearity, hysteresis and repeatability)
Response time	< 4 ms
Pressure range	Minimum range: 0.1 bar Maximum range: 1000 bar See more details in page 3 (part number chart)
Overload pressure	2.0 × F.S. (≤ 250 bar) 1.5 × F.S. (> 250 bar), 1.2 × F.S. (1000bar)
Pressure type	vented gauge, sealed gauge
Long term stability	≤ 0.2% F.S./Year
Temperature coefficient	± 0.03% F.S./°C

Electrical specifications

Output signal	4-20mA	0-10V	0-5V/0.5-4.5V	0.5-4.5V	10%-90%
Supply voltage	9-30Vdc	12-30Vdc	9-30Vdc	5Vdc	5V ratio-metric
Polarity protected	yes	yes	yes	yes	yes
Short-circuit protected	yes	yes	yes	yes	yes
Zero and span adjustment	No	No	No	No	No
Surge protection	yes	yes	yes	yes	yes

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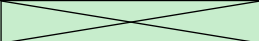
Environmental conditions

Medium temp range	-20 → +85 °C
Ambient temp range	-20 → +80 °C
Compensated temp range	0 → +50 °C
EMC - Emission	EN 61000-6-3
EMC - Immunity	EN 61000-6-1
Insulation resistance	> 100 MΩ at 250 V

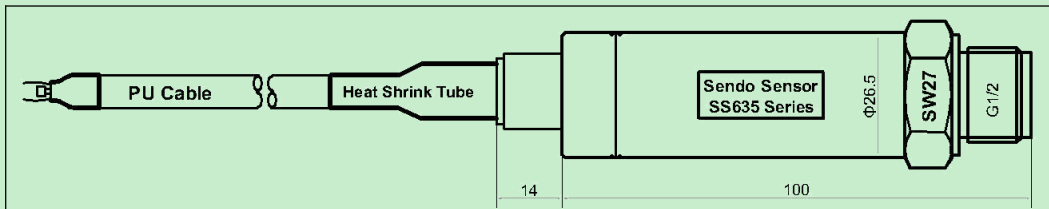
Mechanical characteristics

Materials	Diaphragm	Stainless steel 316L (typical)	More options see page 3
	Housing	Stainless steel 304 (typical)	Stainless steel 316L (optional)
	Pressure connection	Stainless steel 304 (typical)	More options see page 3
	Cable	PU (typical)	PE (optional)
	O-ring	FKM / Viton (typical)	EPDM (optional)
Pressure connection	G1/2"	G1/4" (optional)	M20*1.5 (optional)
Weight	0.5 - 5.0 kg (depending on cable length)		
Sealing rating	IP 68 (fulfilled together with mating connector)		

Electrical connections

4-20mA (current signal)	Red: Voltage +		Black: Signal +
0-10V/0-5V/0.5-4.5V	Red: Voltage +	Black: GND	Blue: Signal +

Dimensions (Unit: mm)



Installation and precautions

- The installation place should be easy to operation and fixing
- The installation place should be away from the inlet as far as possible
- The installation place should be away from the heat source as far as possible
- The installation place should be away from the vibration source as far as possible
- When installation, the metal probe should sink to the bottom of the container and fixed

Precautions for safety use

- Clean the metal probe (sensor) regularly to avoid block the pressure port
- A SS 316L diaphragm is exposed in the front part of the sensor, any artificial touch is not allowed
- The cable is special waterproof designed, abrasion, puncture, and cut the cable is strictly prohibited
- The wiring should strict reference to the electrical connection, wrong wiring will cause damage to the sensor

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Part number chart (How to order)

PART NUMBER REQUIRED: **SS635.PL.04.A.01 (EXAMPLE)**

1	Pressure range(bar)	PL
	NA(-1...0) NB(-0.7...0) NC(-0.5...0) ND(-0.35...0) NE(-0.2...0) NF(-0.1...0) PA(0...0.1) PB(0...0.2) PC(0...0.35) PD(0...0.5) PE(0...0.7) PF(0...1) PG(0...1.6) PH(0...2) PI(0...2.5) PJ(0...4) PK(0...6) PL(0...10) PM(0...16) PN(0...25) PO(0...40) PP(0...60) PQ(0...100) PR(0...160) PS(0...200) PT(0...250) PU(0...300) PV(0...350) PW(0...400) PX(0...500) PY(0...600) PZ(0...1000) CA(-1...0.6) CB(-1...1.5) CC(-1...3) CD(-1...5) CE(-1...9) CF(-1...15) CG(-1...24) 1Z(Other pressure range or unit is on request)	
2	Cable length	04
	01(2m) 02(5m) 03(8m) 04(10m) 05(12m) 06(15m) 07(20m) 08(25m) 09(30m) 10(35m) 11(40m) 12(45m) 13(50m) 2Z(Other length is on request)	
3	Pressure connection	A
	A(G 1/4" male) B(G 1/2" male) C(M20 x 1.5 male) 3Z(Other pressure connection is on request)	
4	Signal & supply	01
	01(4-20mA & 9-30Vdc) 02(0-10V & 12-30Vdc) 03(0-5V & 9-30Vdc) 04(0.5-4.5V & 9-30Vdc) 05(0.5-4.5V & 5Vdc) 06(0.5-4.5V & 5Vdc ratiometric)	

NON- REQUIRED: **SS635.PL.04.A.01 - V3C**

1	Material of cable	V1A
	V1A(PE)	
2	Material of O-ring sealing	V2B
	V2B(EPDM)	
3	Material of housing	V3C
	V3C(Stainless steel 316L)	
4	Material of diaphragm	V4E
	V4D(Titanium) V4E(Tantalum) V4F(Hastelloy-C)	

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Contact us

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*Specifications subject to change without notice, the latest date sheet please contact: sales@sendo-sensor.com



WARNING: DO NOT USE THIS PRODUCT AS SAFETY OR EMERGENCY STOP DEVICE OR IN ANY OTHER APPLICATION WHERE FAILURE OF THE PRODUCT COULD RESULT IN PERSONAL INJURY OR EVEN DEATH.