### **Features**

- CE conformity
- Reverse polarity protection
- Stainless steel 316L diaphragm
- Zero / span adjustable by potentiometer
- Rugged construction, silicone oil filled inside
- Piezoresistive silicon pressure sensor
- Pressure ranges from 0.1 up to 1000 bar
- Isolated construction, able to test various media
- Output signals: 4-20mA and 0-10V, 0-5V, 0.5-4.5V
- A wide range of pressure and electrical connections









## Descriptions

SS302 series piezoresistive pressure transmitters are the basic type in Sendo Sensor, also it is the most widely used one, work following the piezoresistive principle, standard medium working temperature from -20 to 100°C. A modular concept uses the selection of off-the-shelf capsules, allowing a customized production. Numerous options and variants are available, fully adapted to the customer requirements: power supply, signal outputs, mechanical and electrical interface, ports, materials in media contact, oil filling, special feature, etc.

SS302 series adopt a high performance piezoresistive pressure transducer as the sensing part, the inner structure is O-ring sealed, 0 to 70 °C wide temperature compensation, well suitable for precision applications in industrial environments for pressures ranging from 0,1 to 1000 bar, liquids or gas.

# **Technical data**

Accuracy @ 25 °C	± 0.5% F.S. (incl. non-linearity, hysteresis and repeatability)		
Non-linearity BFSL (conformity)	± 0.3% F.S.		
Hysteresis and repeatability	± 0.1% F.S.		
Response time	< 4 ms		
Pressure range Minimum range: 0.1 bar			
	Maximum range: 1000 bar		
	See more details in page 5 (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, absolute			
Long term stability ≤ 0.2% F.S./Year			
Temperature coefficient	± 0.03% F.S./°C		

#### Performance (EN 60770)

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### Electrical specifications

Output signal	4-20mA	0-10V	0-5V/0.5-4.5V	0.5-4.5V
Supply voltage	12-36Vdc	15-36Vdc	10-36Vdc	5Vdc
Polarity protected	yes	yes	yes	yes
Short-circuit protected	yes	yes	yes	yes
Zero and span adjustment	yes	yes	yes	yes
Surge protection	No	No	No	No

#### Environmental conditions

Medium temp range	-20 → +100 °C	
Ambient temp range	-20 $\rightarrow$ +80 °C (depending on electrical connection)	
Compensated temp range	Compensated temp range $0 \rightarrow +70 \ ^{\circ}\text{C}$	
EMC - Emission EN 61000-6-3		
EMC - Immunity	EN 61000-6-1	
Insulation resistance	>100 MΩ at 250 V	

### Mechanical characteristics

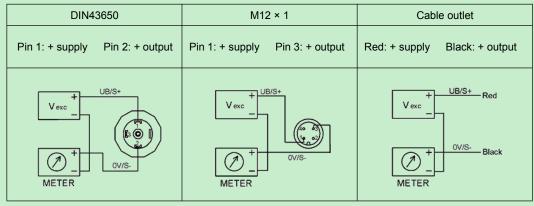
Materials	Diaphragm Stainless steel 316L (typical)		More options see page 5		
	Housing Stainless steel 304 (typical)		nless steel 304 (typical)	Sta	ainless steel 316L (optional)
	Pressure connection Stainless steel 304 (typica		al)	Stainless steel 316L (optional)	
	Electrical connection Depending on the conne		ectio	on type	
	O-ring		FKM / Viton (typical)		EPDM (optional)
Pressure connection	1/4" BSP, 1/4" NPT, 9/16-18 UNF, M14 x 1.5 More options see page 5				
Electrical connection	DIN43650A, DIN43650C, LED Display				
Weight	150-300g (depending on pressure connection and electrical connection)				
Sealing rating	IP 65 (fulfilled together with mating connector)				

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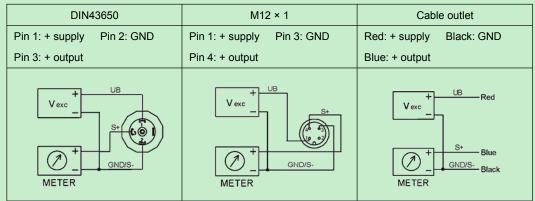
#### Electrical connector type

DIN43650A	DIN43650C	3-pin Packard	M12 × 1
	2    (C)    1 		

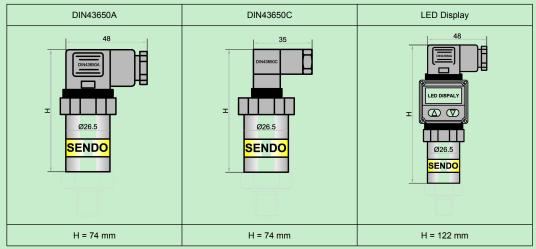
### Electrical connections for 4-20mA current output signal (2 wire)



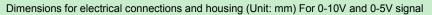
Electrical connections for 0-10V, 0-5V, 0.5-4.5V voltage output signal (3 wire)

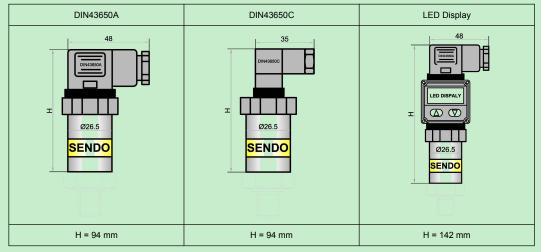


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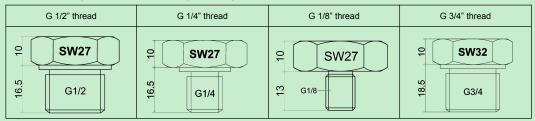


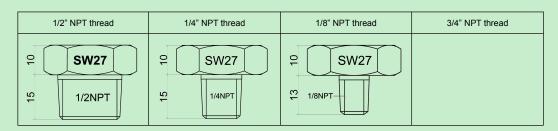
Dimensions for electrical connections and housing (Unit: mm) For 4-20mA and 0.5-4.5V signal





#### Dimensions for pressure connections (Unit: mm)





### Part number chart (How to order)

PART NUMBER REQUIRED: SS302.PL.01.A.04.A.06 (EXAMPLE)

1	Pressure range(bar)	PL			
	NA(-10) NB(-0.70) NC(-0.50) ND(-0.350) NE(-0.20) NF(-0.10) PA(00.1)				
	PB(00.2) PC(00.35) PD(00.5) PE(00.7) PF(01) PG(01.6) PH(02)				
	PI(02.5) PJ(04) PK(06) PL(010) PM(016) PN(025) PO(040)				
	PP(060) PQ(0100) PR(0160) PS(0200) PT(0250) PU(0300)				
	PV(0350) PW(0400) PX(0500) PY(0600) PZ(01000)				
	CA(-10.6) CB(-11.5) CC(-13) CD(-15) CE(-19) CF(-115) CG(-124)				
	1Z(Other pressure range or unit is on request)				
2		01			
2	Pressure type	01			
	01(Gauge) 02(Absolute)				
3	Electrical connection	Α			
	A(DIN43650A) B(LED Display) C(DIN43650C)				
4	Pressure connection 04				
	01(1/4" NPT male) 02(1/2" NPT male) 03(1/8" NPT male) 04(G 1/4" male) 05(G 1/2" male)				
	06(G 1/8" male) 07(PT 1/4" male) 08(PT 1/2" male) 09(PT 1/8" male) 10(9/16-18 UNF male)				
	11(7/16-20 UNF male) 12(1/2-20 UNF male) 13(3/8-24 UNF male) 14(M10 x 1.25 male)				
15(M14 x 1.5 male) 16(M20 x 1.5 male) 4Z(Other pressure connection is on request)					
5					
	A(4-20mA & 12-36Vdc) B(0-10V & 15-36Vdc) C(0-5V & 10-36Vdc) D(0.5-4.5V & 10-36Vdc)				
	E(0.5-4.5V & 5Vdc)				
6	Cable length	06			
	01(1m) 02(2m) 03(3m) 04(4m) 05(5m) 06(None) 6Z(Other length is on request)				

## 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.