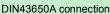
- CE conformity
- Stainless steel 316L diaphragm
- Digital PCB, higher stability(≤100KPa)
- Analog PCB, zero/span adjustable(>100KPa)
- Piezoresistive pressure sensor, silicone oil filled
- Pressure ranges from 0.1 up to 1000 bar
- Isolated construction, able to test various media
- Vented gauge, sealed gauge and absolute pressure
- A wide range of pressure and electrical connections
- Output signals: 4-20mA and 0-10V, 0-5V voltage output







Direct cable connection



M12 connection



DIN43650C connection

### **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 -20~100°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, -10 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**

#### Performance (EN 60770)

Accuracy @25°C (incl. non-linearity, hysteresis and repeatability)	±0.5% F.S.	
Non-linearity BFSL (conformity)	≤ ±0.3% F.S.	
Hysteresis and repeatability	≤ ±0.1% F.S.	
Response time	< 4 ms	
Overload pressure	2.0 × F.S. (≤ 250 bar)	
	1.5× F.S. (> 250 bar)	
	1.2× F.S. (1000bar)	
Pressure range	-1~0bar, 0~0.11000bar	
Pressure type	vented gauge, sealed gauge, absolute	
Long term stability	≤0.2%F.S./Year	
Temperature coefficient	±0.03%F.S./°C	

#### Electrical specifications

	4-20mA 0-10V 0-5V		0-5V	Ratio-metric
	(Current output)	(Not Ratio-metric)		(10-90% of Vs.)
Supply voltage [UB](Analog PCB)	12-36V	18-36V 12-36V		5 V ± 10%
Load [RL] (load connected to 0 V)	RL ≤ (UB-12V)/0.02 A			
Polarity protected	yes	No		No
Short-circuit protected	yes	No		No

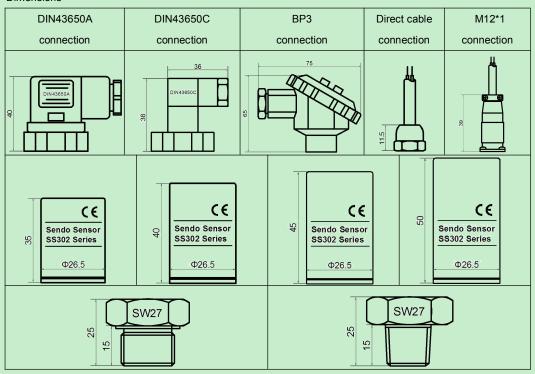
#### **Environmental conditions**

Medium temperature range	-20°C → +100°C
Ambient temperature range (depending on electrical connection)	-20°C → +80°C
Compensated temperature range	-10°C → +70°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	
	Enclosure	Stainless steel 304	
	Electrical connections	PA66, stainless steel	
	O-ring	Viton	
Weight (depending on pressure cor	0.15 - 0.3 kg		
Pressure connection	See page 3 (Ordering information)		
Electrical connection	DIN43650A(Hirschmann), Direct cable, M12*1, BP3, DIN43650C		

#### Dimensions



#### Electrical connections

	DIN43650 connection	Cable connection
4-20mA	Pin 1: + supply Pin 2: + output	Red: + supply
Current output signal (2 wire)	Pin 3: Not used Earth: Not connected	Black: + output
0-10V, 0-5V, 0.5-4.5V Voltage output signal (3 wire)	Pin 1: + supply Pin 2: - supply Pin 3: + output Earth: Not connected	Red: + supply Black: - supply Blue: + output
IP protection (fulfilled together with mating connector)	IP 65	IP 65

# **Ordering information**

### EXAMPLE: <u>SS302 K 01 A 04 B 01 A</u>

1	Pressure range(bar)	K				
	A(-1~0) B(-0.35~0) C(-0.2~0) D(0~0.1) E(0~0.2) F(0~0.35) G(0~1.0) H( 0~2.5) I(0~4.0)					
	J(0~6.0) K(0~10) L(0~16) M(0~25) N(0~40) O(0~60) P(0~100) Q(0~250) R(0~400)					
	S(0~600) T(0~1000) U(Other pressure range or unit is on request)					
2	Pressure type	01				
	01 Gauge 02 Absolute					
3	Electrical connection A					
	A Hirschmann(DIN43650A) B Direct cable C M12*1 D BP3 E DIN43650C					
4	Pressure connection	04				
	01(1/4"NPT) 02(1/2"NPT) 03(1/8"NPT) 04(G1/4") 05(G1/2") 06(G1/8")					
	07(PT1/4") 08(PT1/2") 09(PT1/8") 10(Other pressure connection is on request)					
5	Voltage supply	В				
	A 5VDC B 12~36VDC					
6	Output signal	01				
	01 4~20mA 02 0.5~4.5V 03 0~5V 04 0~10V 05 Other output signal is on request	t				
7	Cable length	Α				
	A None B 1m C 2m D 3m E 4m F 5m G 6m H Other length is on reque	st				

#### Optional

1	Pulse snubber			
2	Accuracy 0.25%F.S.			
3	Material of wetted parts stainless steel 316L or Ti			
4	SS302+ series Supply 9~36V (4-20mA) Enhanced anti-interference and surge protection			

### Contact us

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