#### **Features**

- 3.3 V power supply
- Output signals: 0-2.5V, 0-3V
- Stainless steel 316L wetted parts
- Piezoresistive silicon pressure sensor
- Pressure ranges from 0.1 up to 1000 bar
- Rugged construction, silicone oil filled inside
- Isolated construction, able to test various media
- A wide range of pressure and electrical connections













Descriptions

SS320 series pressure sensor is designed to use with a 3.3 v power supply and give 0 to 3v or 0 to 2.5v analog signal, it adopts a highly-sensitive piezoresistive pressure transducer as the sensing part and assembled with a high quality signal processing ASIC, guarantees high level of accuracy, repeatability and long-term stability, gives an incredible stable signal even in high pressures or low pressures including vacuum, is well suitable for precision applications in industrial environments for pressures ranging from 0.1 to 1000 bar.

The pressure transmitter is made of SS316L wetted parts and has O-ring sealed internal structure, on the basis of the combinability of different mechanical and electronic connections, a variety of different pressure transmitters is offered, is widely used for various pressure measurement application with media compatible with stainless steel 316L and viton.

### **Technical data**

#### Performance (EN 60770)

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		

### Electrical specifications

Output signal	0-3V	0-2.5V
Supply voltage	3.3Vdc	3.3Vdc
Polarity protected	yes	yes
Short-circuit protected	yes	yes
Zero and span adjustment	No	No

#### **Environmental conditions**

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

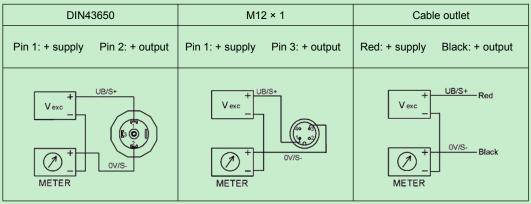
### Mechanical characteristics

Materials	Diaphragm Stainless		nless steel 316L (typical)	Мс	ore options see page 5
	Housing	Stainless steel 304 (typical)		Sta	ainless steel 316L (optional)
	Pressure connection Stainless steel 316L				
	Electrical connection Depending on the conne		ectic	on type	
	O-ring FKM / Vi		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			More options see page 5	
Electrical connection	DIN43650A, DIN43650C, Cable outlet, M12 × 1, LED Display				
Weight	150-300g (depending on pressure connection and electrical connection)				
Sealing rating	IP 65 (fulfilled together with mating connector)				

#### Electrical connector type

DIN43650A	DIN43650C	3-pin Packard	M12 × 1
2 1	2		4 0 0 3

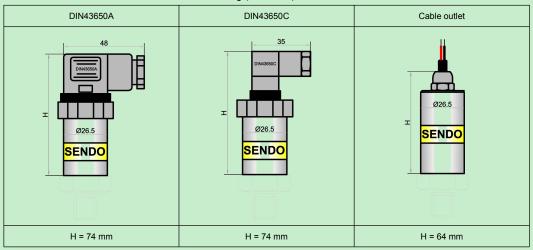
#### Electrical connections for 4-20mA current output signal (2 wire)

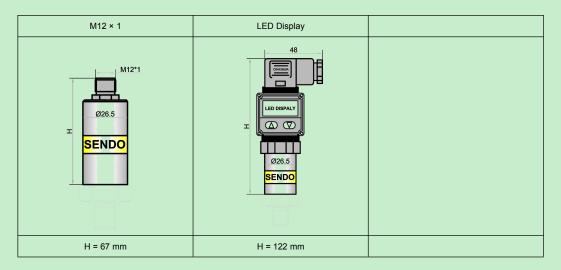


#### Electrical connections for 0-2.5V, 0-3V, 0.5-2.5V voltage output signal (3 wire)

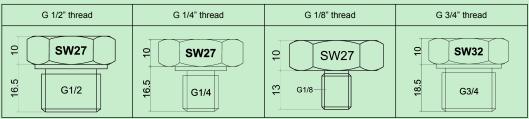
DIN43650	M12 × 1	Cable outlet	
Pin 1: + supply Pin 2: GND	Pin 1: + supply Pin 3: GND	Red: + supply Black: GND	
Pin 3: + output	Pin 4: + output	Blue: + output	
Vexc + UB  St GND/S-  METER	V exc + UB  V exc + GND/S-  METER	V exc + Blue GND/S- Black	

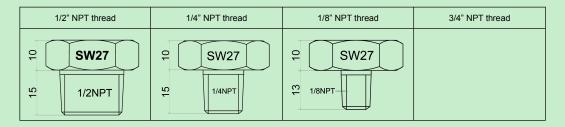
#### Dimensions for electrical connections and housing (Unit: mm)





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





## Part number chart (How to order)

#### PART NUMBER REQUIRED: \$\$320.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	Pressure type	01				
	01(Gauge) 02(Absolute)					
3	Electrical connection A					
	A(DIN43650A) B(Cable Outlet) C(M12 × 1) D(LED Display) E(DIN43650C) F(Plug type)					
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	Signal & supply	Α				
	A(0-3V & 3.3Vdc) B(0-2.5V & 3.3Vdc)					
6	Cable length	06				
	01(1m) 02(2m) 03(3m) 04(4m) 05(5m) 06(None) 6Z(Other length is on request)					

### NON- REQUIRED: \$\$320.PL.01.A.04.A.06 - V3C

1	Material of O-ring sealing	V2B		
	V2B(EPDM)			
2	Material of housing	V3C		
	V3C(Stainless steel 316L)			
3	Material of diaphragm	V4E		
	V4D(Titanium) V4E(Tantalum) V4F(Hastelloy-C)			
4	Pulse snubber / Bumper (Anti cavitation, pressure spikes, or pulses)			
	V6H(Assemble into the pressure hole)			

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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.