SS412 series pure flush pressure transmitters

Features

- CE conformity
- Reverse polarity protection
- Stainless steel 316L wetted parts
- Silicone oil filled, rugged construction
- Wide measuring range: 0-0.35bar to 600bar
- Output signals: 4-20mA or 0-10V, 0-5V, 0.5-4.5V
- A wide range of pressure and electrical connections



Descriptions

SS412 series flush diaphragm pressure transmitter is totally flat and designed to ensure a dead-space free sealing between the process connection and the measuring medium, so that medium will not heap up, is specifically suitable for the measurement of viscous, paste-like, adhesive media. It offers a stable performance, offset and full scale output is achieved via the latest ASIC technology, gives an accurate output signal of 4-20 mA with options for 0-5 Vdc, 0-10 Vdc, and other analog output signals throughout the complete range of pressures from 0.35 bar up to 600 bar.

SS412 series is piezoresistive silicon based transmitter with stainless steel isolated structure, pressure is coupled from a SS316 membrane that deforms with pressure via a transmission fluid (silicone oil), the modular design of the pressure transmitter allows for a wide variety of electrical connections, output signals and process connections to be specified to meet the requirements of any application.

Technical data

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Accuracy @ 25 °C	\pm 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: 0.35 bar		
	Maximum range: 600 bar		
	See more details in page 5 (part number chart)		
Overload pressure	2.0 × F.S. (≤ 250 bar)		
	1.5 × F.S. (> 250 bar)		
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	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

Environmental conditions

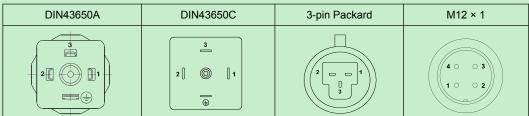
Medium temp range	-40 → +100 °C	More options see page 6	
Ambient temp range	-20 \rightarrow +80 °C (depending on electrical connection)		
Compensated temp range	$0 \rightarrow +70 \ ^{\circ}C$		
EMC - Emission	EN 61000-6-3		
EMC - Immunity	EN 61000-6-1		
Insulation resistance	> 100 MΩ at 250 V		

Mechanical characteristics

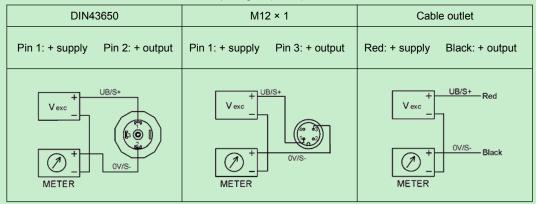
Materials	Diaphragm	n Stainless steel 316L (typical)		More options see page 5
	Housing	Stainless steel 304 (typical)		Stainless steel 316L (optional)
	Pressure connection Stainless steel 316L		Stainless steel 316L	
	Electrical connection Depending on the conn		Depending on the conn	ection type
	O-ring Not used, all stainless s		Not used, all stainless	steel welding structure
Pressure connection	1/2" BSP, 1/2" NPT, M20 x 1.5			More options see page 5
Electrical connection	DIN43650A, DIN43650C, Cable outlet, M12 × 1, LED Display 225-500g (depending on pressure connection and electrical connection) IP 65 (fulfilled together with mating connector)			
Weight				
Sealing rating				

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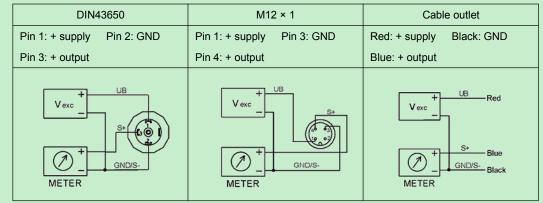
Electrical connector type



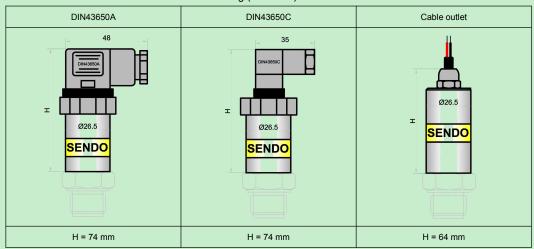
Electrical connections for 4-20mA current output signal (2 wire)



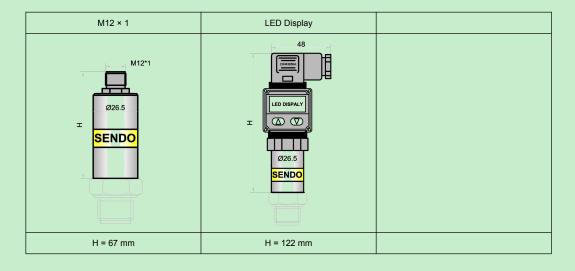
Electrical connections for 0-10V, 0-5V, 0.5-4.5V voltage output signal (3 wire)



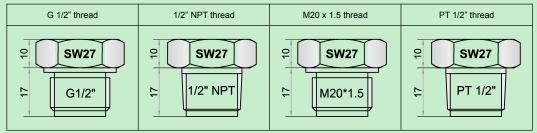
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Dimensions for electrical connections and housing (Unit: mm)



Dimensions for pressure connections (Unit: mm)



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SS412 series pure flush pressure transmitters

Part number chart (How to order)

PART NUMBER REQUIRED: SS412.PL.01.A.01.A.06 (EXAMPLE)

		PL						
1	Pressure range(bar)							
	NA(-10) NB(-0.70) NC(-0.50) ND(-0.350) 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)							
	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	А						
	A(DIN43650A) B(Cable Outlet) C(M12 × 1) D(LED Display) E(DIN43650C) F(Plug type)							
4	Pressure connection							
	01(1/2" NPT male) 02(1" NPT male) 03(3/4" NPT male) 04(G 1/2" male) 05(G 1" male)							
	06(G 3/4" male) 07(PT 1/2" male) 08(PT 1" male) 09(PT 3/4" male) 16(M20 x 1.5 male)							
	4Z(Other pressure connection is on request)							
5	Signal & supply	А						
	A(4-20mA & 9-30Vdc) B(0-10V & 12-30Vdc) C(0-5V & 9-30Vdc) D(0.5-4.5V & 9-30Vdc)							
	E(0.5-4.5V & 5Vdc) F(0.5-4.5V & 5Vdc ratiometric)							
6	Cable length	06						
	01(1m) 02(2m) 03(3m) 04(4m) 05(5m) 06(None) 6Z(Other length is on request)							

NON- REQUIRED: SS412.PL.01.A.01.A.06 - V3C

1	Material of housing		V3C				
	V3C(Stainless steel 316L)						
2	Material of diaphragm V4						
	V4D(Titanium) V4E(Tantalum) V4F(Hastelloy	-C)					

Contact us

Company	Ningbo Send	Ningbo Sendo Electronic Technology CO., LTD			
Email	sales@send	sales@sendo-sensor.com			
Email	cain.chen@s	cain.chen@sendo-sensor.com			
Factory	No 15, Yongxing 2nd Rd, Chengbei Industrial Park, Huizhou District, 245900 China				
Office	Building. 1#1108, Wante business center, Hi-Tech, 315040 China				
Website	http:/www.pro	essuresensorsuppliers.com	http://www.sendo-sensor.com		
Skype: sendosensor		WeChat: chenjie4884	WhatsApp: +8613616574884		
Tel: 0086-0574-27725960		Fax: 0086-0574-27725970	Phone: 0086-13616574884		

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

SS412.T01.05.05 SENDO SENSOR ® | MEASURING THE WORLD FORM SENDO VISIT US FROM WWW.SENDO-SENSOR.COM SS412T series pure flush pressure transmitters for high temperature

Part number chart (How to order)

PART NUMBER REQUIRED: SS412.T03.PL.01.A.01.A.06 (EXAMPLE)

0	Medium working temperature	T03						
	T03(150 °C, 3pcs of cooling fins) T06(200 °C, 6pcs of cooling fins) T08(240 °C, 8pcs of co							
	0Z(Other temperature is on request)							
1	Pressure range(bar)	PL						
	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) 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(DIN43650A) B(Cable Outlet) C(M12 × 1) D(LED Display) E(DIN43650C) F(Plug type)							
4	Pressure connection	01						
	01(G 1/2" male) 02(G 1" male) 03(G 3/4" male) 04(G 1 1/2" male) 05(M20 x 1.5 male)							
	4Z(Other pressure connection is on request)							
5	Signal & supply	А						
	A(4-20mA & 9-30Vdc) B(0-10V & 12-30Vdc) C(0-5V & 9-30Vdc) D(0.5-4.5V & 9-30Vdc) E(0.5-4.5V & 5Vdc) F(0.5-4.5V & 5Vdc ratiometric)							
6	Cable length	06						
	01(1m) 02(2m) 03(3m) 04(4m) 05(5m) 06(None) 6Z(Other length is on request)							



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.