

Specific&Performance

- Pressure range: From 0-10kPa to 0-100MPa
- ATEX Exd IICT6, Ex ia IICT6 option
- Maximum accuracy 0.1% option
- Assembled diaphragm for measuring complex working conditions such as corrosive and viscous media

Application

- Mechanical Manufacturing
- Hydraulic & Pneumatic
- Pump
- Chemical industry



Specification

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Sensor technology	Piezoresistive				
Pressure Range	Minimum 10 kPa, Maximum 100 MPa				
Accuracy (25℃)	0.5% FS (typical) 0.2% ,0.1% FS (option)				
Zero thermo drift	≤0.02% of span per℃				
Span thermo drift	≤0.02% of span per℃				
Long term drift	0.1% of span per year				
Zero point adjustment	10% of range (only for field housing)				
IP protection	IP65 or IP67 (Depending on electrical connection)				
Temperature	Compensation temperature		Ambient temperature		Storage temperature
	-20-70℃		-40-85℃		-40-125℃
Output signal	4-20mA 2-wire, 0-10V 3-wire, 1-5V 3-wire, Modbus, I²C, Hart				
Supply voltage	12-30VDC				
Load in Ω	Current output: RL≤500; Voltage output: RL≥100K				
Electrical protection	Reversed polarity		Short circuit		Resist voltage
	Protected		Protected		30V
Vibration resistance	20g, 20Hz...5kHz				
Shock resistance	500g/1mS				
Insulation resistance	500MΩ				
Process connection	Please refer the ording code				
Service life	10 million load cycles				
Response time (10%....90%)	≤5mS				
Material	Housing	Thread material	Diaphragm	O-ring ^①	Cable
	304 SS	304 SS or 316L SS	316L SS	FKM	PUR

Note ①: Only available for process connection "5"

Pressure Range

Rel pressure (unit bar)

Pressure range	0-0.16	0-0.25	0-0.4	0-0.6
Over pressure	0.5	0.5	2	2
Burst pressure	1	1	4	4
Ordering code	13	14	15	16

Pressure range	0-1	0-1.6	0-2.5	0-4	0-6
Over pressure	2	4	10	10	10
Burst pressure	3	6	15	15	15
Ordering code	17	18	19	20	21

Pressure range	0-10	0-16	0-25	0-40	0-60
Over pressure	20	32	50	80	100
Burst pressure	30	48	75	120	120
Ordering code	22	23	24	25	26

Pressure range	0-100	0-160	0-250	0-400	0-600
Over pressure	200	320	500	600	900
Burst pressure	300	480	750	800	1200
Ordering code	27	28	29	30	31

Abs pressure (unit bar)

Pressure range		0-0.25	0-0.4	0-0.6
Over pressure		0.5	2	2
Burst pressure		1	4	4
Ordering code		14	15	16

Pressure range	0-1	0-1.6	0-2.5	0-4	0-6
Over pressure	2	4	10	10	10
Burst pressure	3	6	15	15	15
Ordering code	17	18	19	20	21

Pressure range	0-10	0-16	0-25	0-40	0-60
Over pressure	20	32	50	80	100
Burst pressure	30	48	75	120	120
Ordering code	22	23	24	25	26

Pressure Range

Vaccum pressure (unit bar)

Pressure Range	-0.16-0	-0.25-0	-0.4-0	-0.6-0
Over pressure	0.5	0.5	2	2
Burst pressure	1	1	4	4
Ordering code	52	53	54	55

Pressure Range	-1-0	-1-0.6	-1-1.5	-1-3	-1-5
Over pressure	2	4	10	10	10
Burst pressure	3	6	15	15	15
Ordering code	56	57	58	59	60

Pressure Range	-1-9	-1-15	-1-24	-1-39
Over pressure	20	32	50	80
Burst pressure	30	48	75	120
Ordering code	61	62	63	64

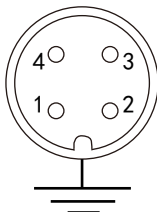
Electrical connection

"-" means non

	Connection thread	Cable dia (mm)	IP protection	Code
DIN 43650	-	4-6	IP65	D1
M12*1(4 pins)	M12*1	-	IP67	D2
1m cable	-	7.5	IP65	T3
Filed housing	M20*1.5	6-8	IP67	T4 or T5

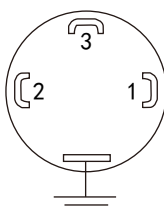
Connection pins

M12*1(4 pins)



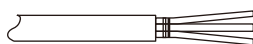
Pin	2-wire	3-wire
1	Power "+"	Power "+"
2		Power "+"
3		
4	Power "-"	Power "-"

DIN 43650



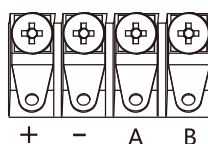
Pin	2-wire	3-wire
1	Power "+"	Power "+"
2	Power "-"	Power "-"
3		Signal "+"

1m cable



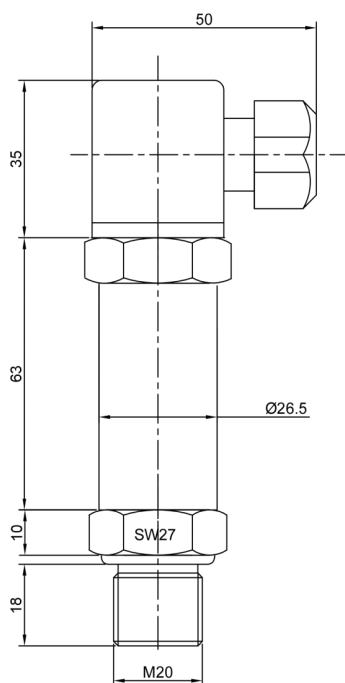
Pin	2-wire	3-wire
Red	Power "+"	Power "+"
Black	Power "-"	Power "-"
Blue		Signal "+"

Filed housing

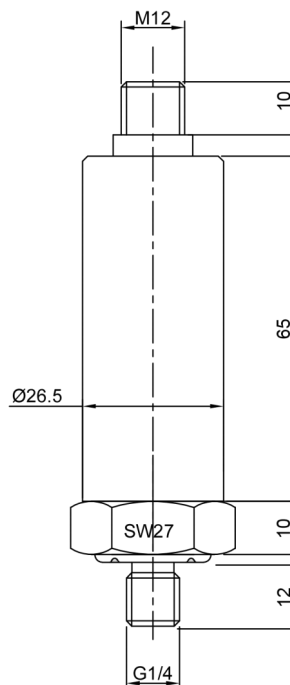


Pin	2-wire	3-wire
+	Power "+"	Power "+"
-	Power "-"	Power "-"
A		Signal "+"
B		

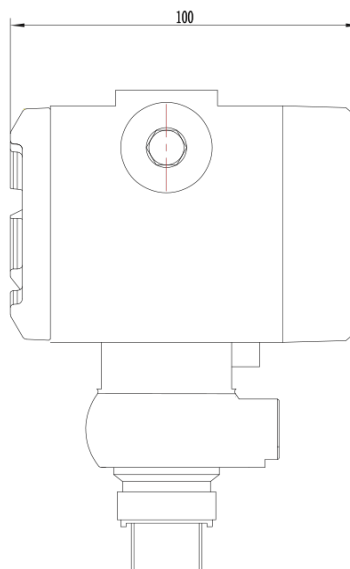
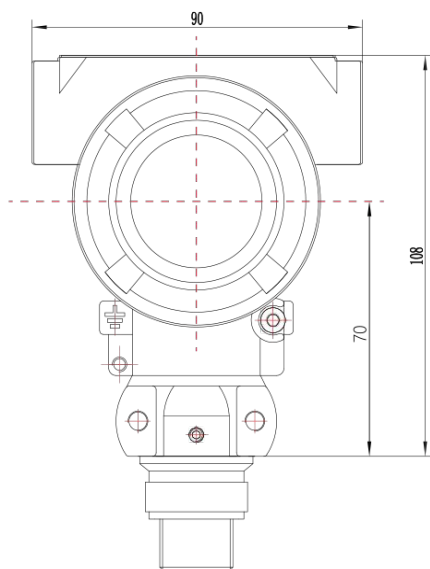
Dimensions (mm)



DIN 43650

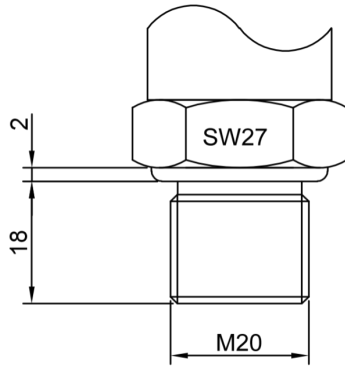


M12*1 (4pin)

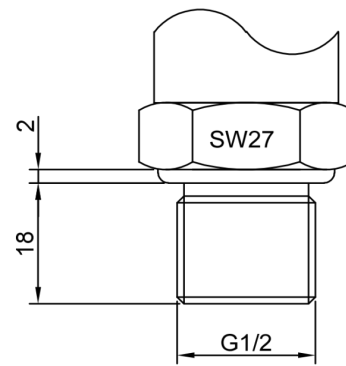


Filed housing

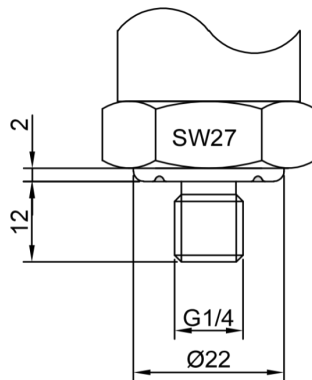
Thread dimension (mm)



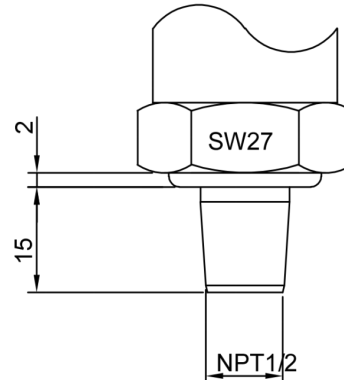
M20X1.5



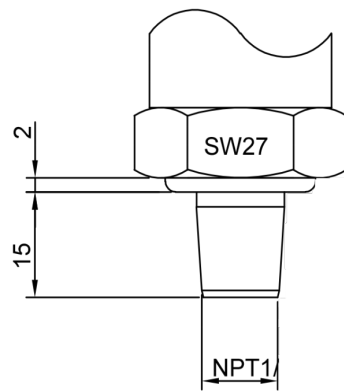
G1/2" EN837



G1/4" EN837



1/2" NPT



1/4" NPT

LY8 Ordering code

	Code	Specification
1.		LY8 Series
2.		Pressure type
	G	Rel
	A	Abs
3.		Pressure range
	XXXX	Please refer pressure range on Page 2
4.		Output signal
	1	4-20mA 2-wire
	2	Modbus
	3	I ² C
	5	1-5V 3-wire
	7	0-10V 3-wire
	9	4-20mA with Hart
5.		Accuracy
	5	0.5% FSO (typical)
	2	0.2% FSO
	1	0.1% FSO
6.		Electrical connection
	D1	DIN 43650
	D2	M12*1 (4 pins)
	T3	1m cable
	T4	Filed housing, without LCD display
7.		ATEX
	S	Standard
	X	Exd IICT6 (only available for 4-20mA)
	A	Ex ia IICT6
8.		Thread material
	6	316L SS
9.		Process connection
	1	G1/2" EN837
	2	G1/4" EN837
	3	1/2"NPT
	4	1/4"NPT
	5	G1/4" DIN3852 (pressure ≤600bar)
	6	M20*1.5

Accessories ordering code

1.

M12*1 4 pins cable

	1m cable	2m cable	5m cable
Straight	1101	1102	1105
90° angel	2201	2202	2205

2.

Gasket

	Brass	SS	FKM
G1/2" EN837	5501	5502	
G1/4" EN837	5503	5504	
M20*1.5	5505	5506	
G1/4" DIN3852			4403