

Specific&Performance

- Intelligent transmitter
- Pressure range: From 0-5 kPa to 0-260 MPa
- ATEX Exd IICT6 available
- Sensor fully welded

Application

- Petrochemical
- Aeronautics and Astronautics
- Power station
- laboratory



Specification

Sensor technology	Piezoresistive				
Pressure range	Minimum 5 kPa, Maximum 260 MPa				
Accuracy (25℃)	0.1% FSO (typical) , 0.05% FSO (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	50% of range				
IP protection	IP65 or IP67 (Depending on electrical connection)				
Temperature	Compensation temperature	Ambient temperature		Storage temperature	
	-20-85℃	-40-85℃		-40-125℃	
Output signal	4-20mA 2-wire, 4-20mA with HART protocol, RS485(Modbus-RTU), 0-10V 3-wire, 1-5V 3-wire				
Supply voltage	12-30VDC, typical 24VDC				
Load in Ω	Current output: $RL \leq (U_s - 12V) / 20mA$; Output signal: $RL \geq 20K$				
Electrical protection	Reversed polarity	Short circuit		Resist voltage	
	Protected	Protected		42V	
Vibration resistance	20g, 20Hz...5kHz				
Shock resistance	100g, 11mS				
Insulation resistance	> 100MΩ under 500VDC				
Process connection	Pleaser refer the ordering code				
Service life	10million load cycles				
Response time (10%....90%)	≤150mS				
Material	Housing	Thread material	Diaphragm	O-ring ^①	Cable
	316 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	0-0.05	0-0.1	0-0.16	0-0.25	0-0.4	0-0.6
Over pressure	0.1	0.5	0.5	0.5	2	2
Burst pressure	0.2	1	1	1	4	4
Ordering code	11	12	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

Pressure range		0-1000	0-1600	0-2000	0-2600	
Over pressure		1500	2500	3000	4000	
Burst pressure		2000	3200	4000	5000	
Ordering code		32	33	34	35	

Abs pressure (unit bar)

Pressure range		0-0.1	0-0.16	0-0.25	0-0.4	0-0.6
Over pressure		0.5	0.5	0.5	2	2
Burst pressure		1	1	1	4	4
Ordering code		12	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

Vacuum pressure (unit bar)

Pressure range		-0.1-0	-0.16-0	-0.25-0	-0.4-0	-0.6-0
Over pressure		0.5	0.5	0.5	2	2
Burst pressure		1	1	1	4	4
Ordering code		51	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	

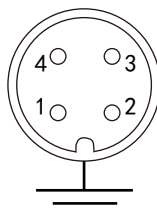
Electrical connection

"-" means non

	Connection thread	Cable dia (mm)	IP protection	Code
DIN 43650	-	6-8	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

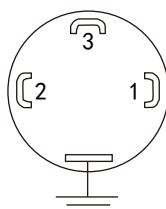
Connection pins

M12*1(4 pins)



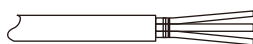
Pin	2-wire	3-wire	4-wire
1	Power“+”	Power“+”	Power“+”
2		Signal “+”	Signal“+”
3			Signal“-”
4	Power“-”	Power“-”	Power“-”

DIN 43650



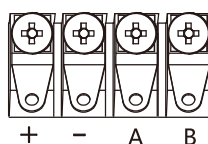
Pin	2-wire	3-wire
1	Power“+”	Power“+”
2	Power“-”	Power“-”
3		Signal“+”

1m cable



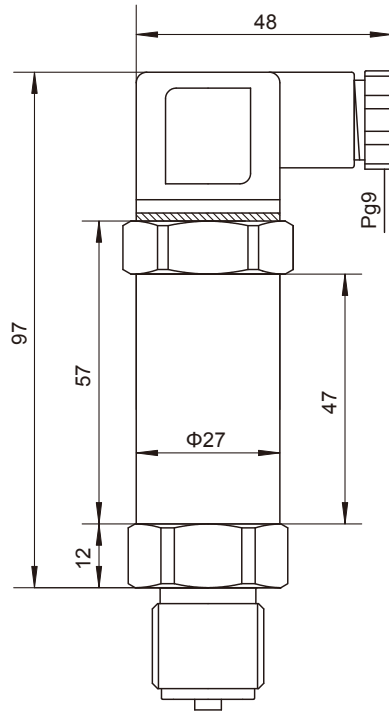
Pin	2-wire	3-wire	4-wire
Red	Power“+”	Power“+”	Power“+”
Black	Power“-”	Power“-”	Power“-”
Blue		Signal“+”	Signal“+”
Yellow			Signal“-”

Filed housing

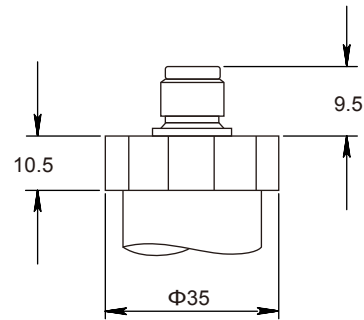


Pin	2-wire	3-wire	4-wire
+	Power“+”	Power“+”	Power“+”
-	Power“-”	Power“-”	Power“-”
A		Signal“+”	Signal“+”
B			Signal“-”

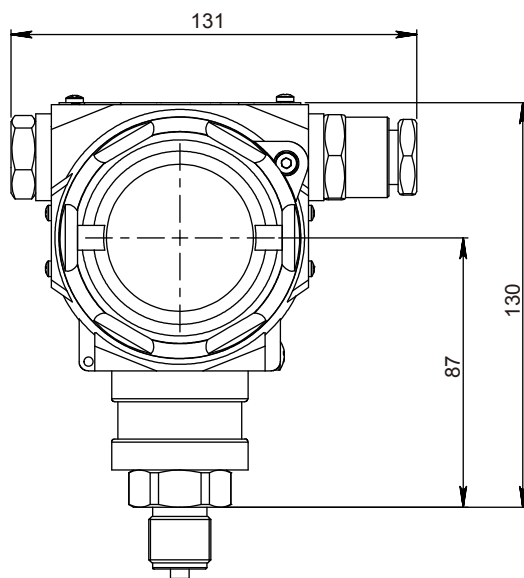
Dimensions (mm)



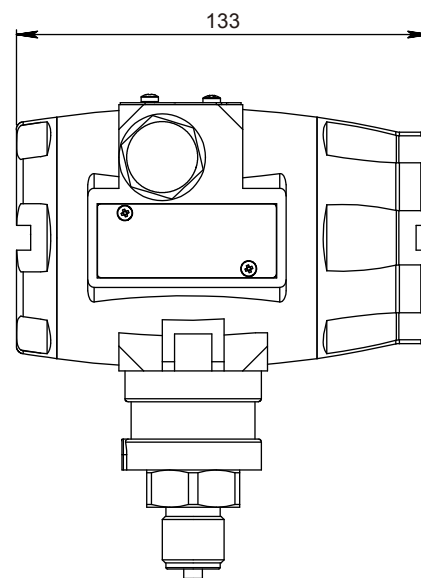
DIN 43650



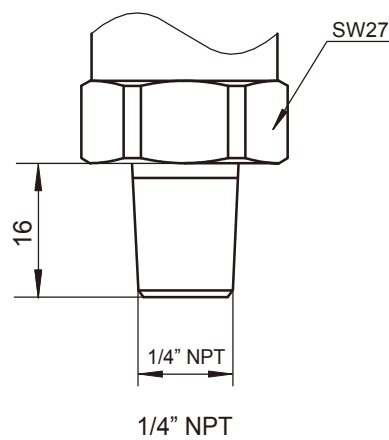
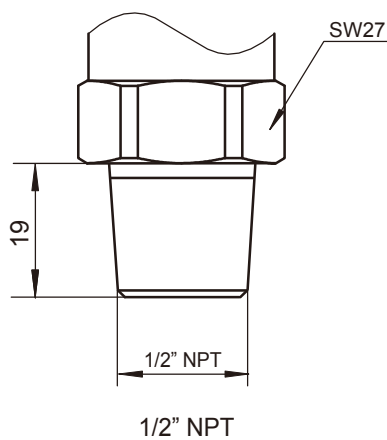
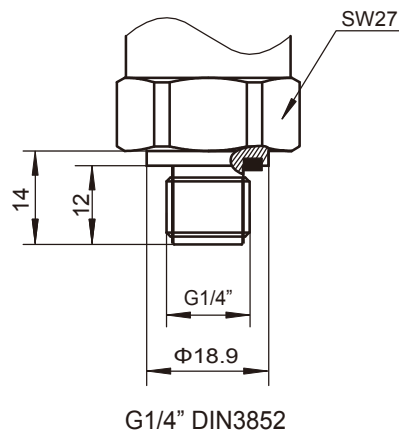
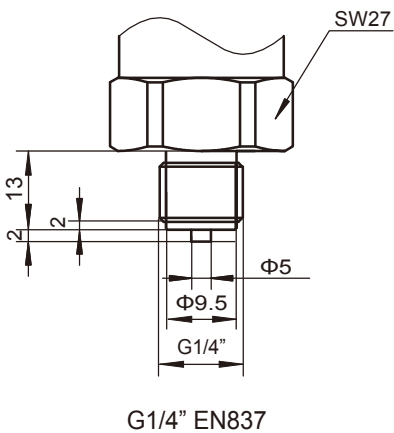
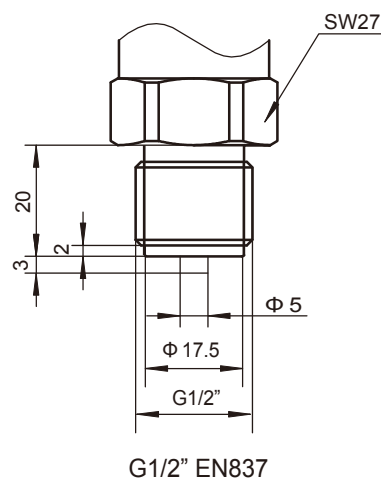
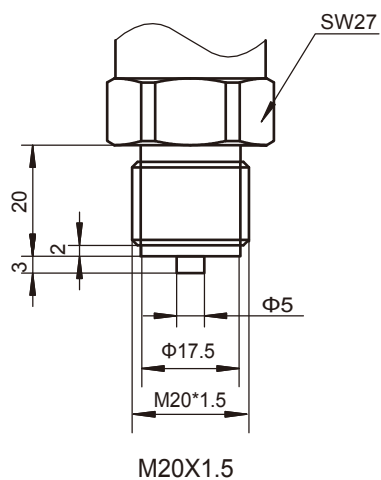
M12*1 (4 pins)



Filed housing



Thread dimensions (mm)



LY16 Ordering code

		Code	Specification
1.		LY16	Series
			Pressure type
2.		G	Rel
		A	Abs
3.			Pressure range
		XXXX	Please refer the pressure range on Page 2
			Sensor type
4.		S	Standard (maximum 1000bar)
		H	High pressure (maximum 2600bar)
			Output signal
5.		1	4-20mA 2-wire
		2	4-20mA with HART protocol
		7	0-10V 3-wire
		5	1-5V 3-wire
		R	RS-485 MODBUS-RTU
			Accuracy
6.		1	0.1% FSO
		3	0.05% FSO
			Electrical connection
7.		D1	DIN 43650
		D2	M12*1 (4 pins)
		T3	1m cable
		T4	filed housing, without LCD display
		T5	filed housing, with LCD display
			ATEX
8.		S	Standard
		X	Exd IICT6 (unavailable for voltage output)
			Thread material
9.		4	304 SS
		6	316L SS
			Process connection
10.		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