

Description & Features

- Isolated piezoresistive silicon sensor
- Pressure ranges: from 0...200 mbar up to 0...100 bar
from 0...20 kPa up to 0...10 MPa
- Accuracy: 0.2% F.S. or 0.5% F.S.

Applications

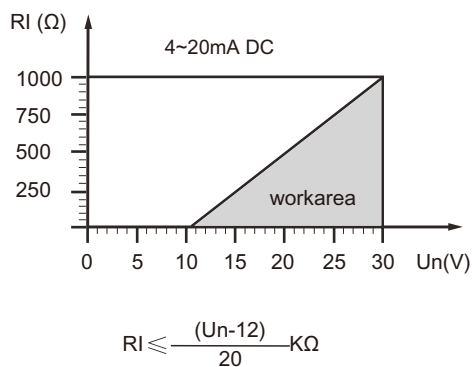
- Manufacturing industry
- Paper industry



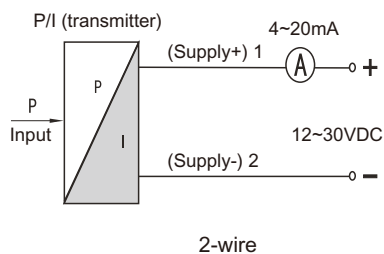
Specifications

Range	Positive gauge pressure		Negative gauge pressure		Absolute pressure	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
	200 mbar 20 kPa	100 bar 10 MPa	-200 mbar -20 kPa	-1 bar -100 kPa	200 mbar 20 kPa	35 bar 3.5 MPa
Accuracy	0.2% F.S., 0.5% F.S.					
Operating voltage	12...30VDC, 24VDC					
Signal output	4...20mA, Customer request.					
Temperature range	Compensation Temperature		Media Temperature	Operating Temperature	Storage Temperature	
	0...50°C, -10...80°C, Customer request		-25...85°C	-20...85°C	-40...125°C	
Temperature influence	0.02%F.S./°C					
Electrical connections	DIN 43650 Pg 9., Male plug M12X1(4 pin), Flying leads with Cable, Customer request.					
Protection class	IP 65, IP 67					
Threaded connection	G1/2", G1/4", G1", M20X1.5, Customer request					
Vibration	20g, 20Hz...5kHz					
Shock	100g, 11ms					
Housing material	Low-copper aluminum alloy, SUS 304 SS					
Service life	>1X10 ⁸ Pressure cycles					

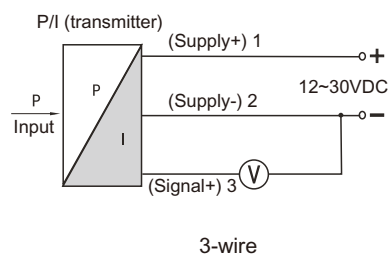
Load Characteristics



Pin Configuration

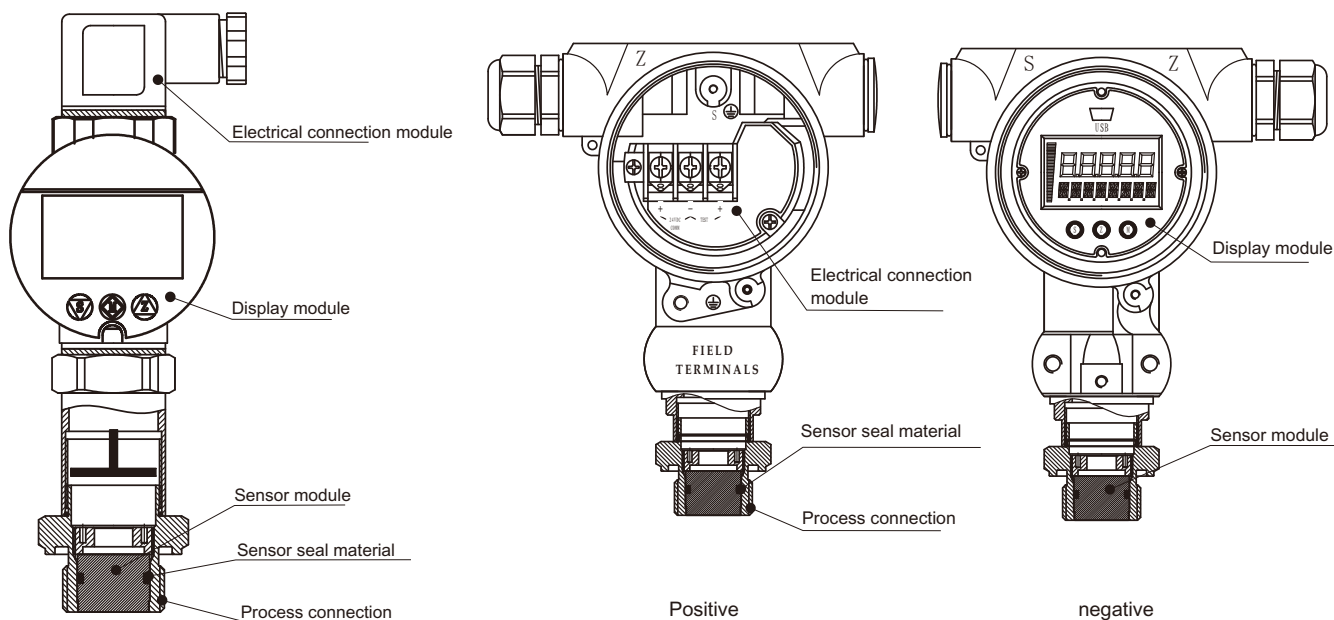


2-wire (4~20mA)
DIN 43650 Pg 9.
1 Supply+
2 Supply-

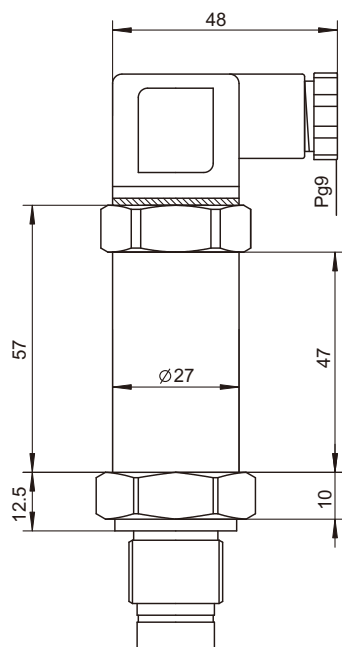


3-wire
DIN 43650 Pg 9.
1 Supply+
2 Supply-
Signal-
3 Signal+

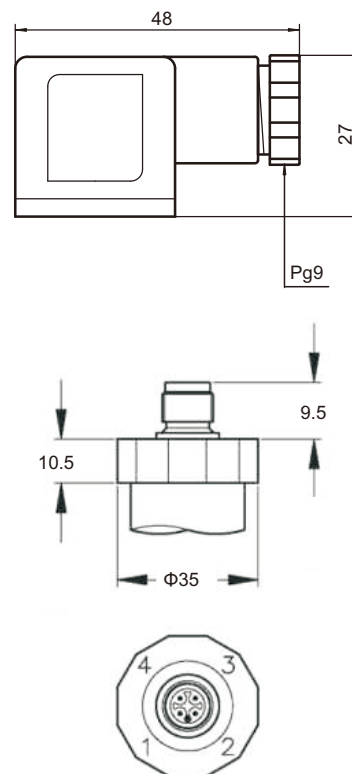
Installation Figure



Dimensions (Unit: mm)

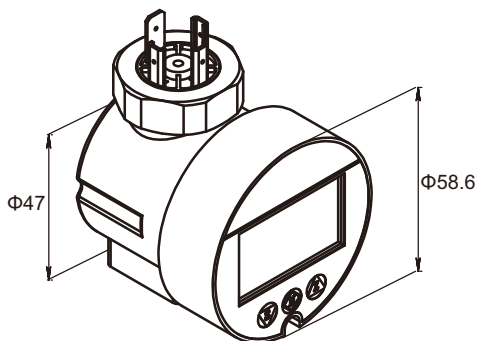


Electrical Connections (Unit: mm)

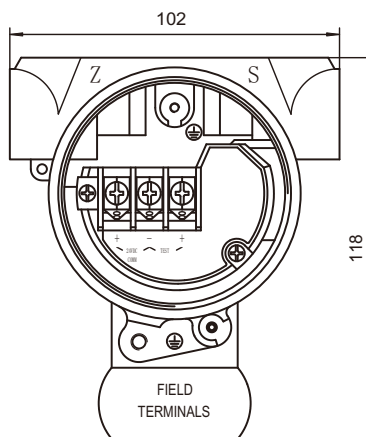


Male plug M12X1(4 pin)

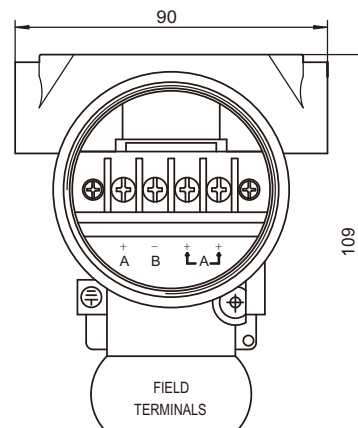
LCD / Junction box Dimensions (Unit: mm)



LCD

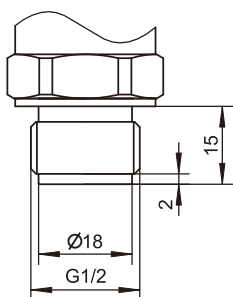


Junction box IP 67 (with LCD display)
Code: T

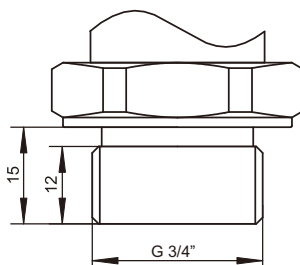


Junction box IP 67 (without display)
Code: W

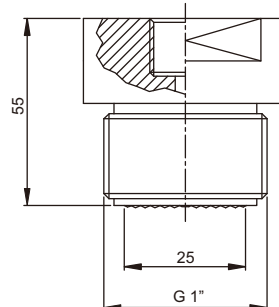
Process Connections (Unit:mm)



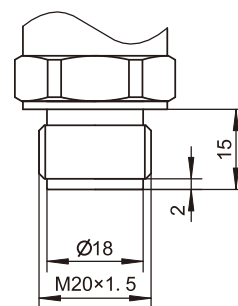
G 1/2"



G 3/4"



G 1"



M20X1.5

Ordering Code LY20 Series

- Isolated piezoresistive silicon sensor
- Pressure ranges: from 0...200 mbar up to 0...100 bar
from 0...20 kPa up to 0...10 MPa
- Accuracy: 0.2% F.S. or 0.5% F.S.



Field No.	Code	Specifications
1.	LY20	Series
2.	G	Pressure Type Gauge
	A	Absolute
3.	XXXX	Input (See LY20 Series Pressure Range) Range
4.	1	Output 4...20mA / 2-wire
	9	Customer request
5.	2	Accuracy 0.2% (Ultra-stable Sensor type)
	5	0.5% (Common Sensor type)
6.	1A	Electrical connections DIN 43650 Pg 9.
	F5	Flying leads with cable IP 65
	F7	Flying leads with cable IP 67
	2A	Male plug M12X1(4 pin)
	T	Junction box IP 67 (with LCD display)
	W	Junction box IP 67 (without display)
	99	Customer request
7.	0	Display Without Display
	E	LED (DIN 43650 Pg 9. only)
	C	LCD (Junction box IP 67 only Code:T)
	9	Customer request
8.	0	Length of cable outlet Without
	1	1m (Standard)
9.	4	Process Connection Material 304 Stainless steel
	6	316 Stainless steel
	9	Customer request
10.	100	Process Connection G1/2"
	400	G3/4"
	200	G1"
	M00	M20X1.5
	999	Customer request
11.	3	Seals Stainless steel welding
	9	Customer request
12.	SD1	Filling liquid Ambient temperature silicone filled: -45~205°C
	99	Customer request
13.	L	Isolation diaphragm material 316LSS
	9	Customer request

Ordering Code LY20 Series Pressure Range

Code	Input		Overload		Process connection		
	Range	Gauge pressure			G1"	G1/2"	M20X1.5
							√=available X=not available
G0020	0-200 mbar	0-20kPa	1050 mbar	105kPa	×	×	×
G0035	0-350 mbar	0-35kPa	1050 mbar	105kPa	√	×	×
G0050	0-500 mbar	0-50kPa	1050 mbar	105kPa	√	×	×
G0070	0-700 mbar	0-70kPa	1050 mbar	105kPa	√	×	×
G0100	0-1000 mbar	0-100kPa	1500 mbar	150kPa	√	×	×
G0160	0-1600 mbar	0-160kPa	3000 mbar	300kPa	√	×	×
G0200	0-2000 mbar	0-200kPa	3000 mbar	300kPa	√	×	×
G0250	0-2500 mbar	0-250kPa	5250 mbar	525kPa	√	√	√
G0350	0-3500 mbar	0-350kPa	5250 mbar	525kPa	√	√	√
G0700	0-7000 mbar	0-700kPa	10.5 bar	1.05MPa	√	√	√
G1010	0-10 bar	0-1.0MPa	15 bar	1.5MPa	√	√	√
G1016	0-16 bar	0-1.6MPa	30 bar	3MPa	√	√	√
G1020	0-20 bar	0-2.0MPa	30 bar	3MPa	√	√	√
G1025	0-25 bar	0-2.5MPa	52.5 bar	5.25MPa	×	√	√
G1035	0-35 bar	0-3.5MPa	52.5 bar	5.25MPa	×	√	√
G1060	0-60 bar	0-6.0MPa	105 bar	10.5MPa	×	√	√
G1100	0-100 bar	0-10 MPa	150 bar	15MPa	×	√	√
Absolute pressure							
A0020	0-200 mbar	0-20kPa	1050 mbar	105kPa	√	×	×
A0035	0-350 mbar	0-35kPa	1050 mbar	105kPa	√	×	×
A0050	0-500 mbar	0-50kPa	1050 mbar	105kPa	√	×	×
A0070	0-700 mbar	0-70kPa	1050 mbar	105kPa	√	×	×
A0100	0-1000 mbar	0-100kPa	1500 mbar	150kPa	√	×	×
A0160	0-1600 mbar	0-160kPa	3000 mbar	300kPa	√	×	×
A0200	0-2000 mbar	0-200kPa	3000 mbar	300kPa	√	×	×
A0250	0-2500 mbar	0-250kPa	5250 mbar	525kPa	√	√	√
A0350	0-3500 mbar	0-350kPa	5250 mbar	525kPa	√	√	√
A0700	0-7000 mbar	0-700kPa	10.5 bar	1.05MPa	√	√	√
A1010	0-10 bar	0-1.0MPa	15 bar	1.5MPa	√	√	√
A1016	0-16 bar	0-1.6MPa	30 bar	3MPa	√	√	√
A1020	0-20 bar	0-2.0MPa	30 bar	3MPa	√	√	√
A1025	0-25 bar	0-2.5MPa	52.5 bar	5.25MPa	×	√	√
A1035	0-35 bar	0-3.5MPa	52.5 bar	5.25MPa	×	√	√
Compound pressure							
C0020	-0.2 mbar-200 mbar	-20-20kPa	1050 mbar	105kPa	√	×	×
C0050	-0.5 mbar-500 mbar	-50-50kPa	1500 mbar	150kPa	√	×	×
C0060	-1000 mbar-600 mbar	-100-60kPa	3000 mbar	300kPa	√	×	×
C0100	-1000 mbar-1000 mbar	-100-100kPa	3000 mbar	300kPa	√	×	×
C0150	-1000 mbar-1500 mbar	-100-150kPa	5250 mbar	525kPa	√	×	×
C0300	-1000 mbar-3000 mbar	-100-300kPa	10.5 bar	1.05MPa	√	√	√
C0500	-1000 mbar-5000 mbar	-100-500kPa	10.5 bar	1.05MPa	√	√	√
C0900	-1000 mbar-9000 mbar	-100-900kPa	15 bar	1.5MPa	√	√	√
C1500	-1000 mbar-15 bar	-100kPa-1.5MPa	30 bar	3MPa	√	√	√
9999	Customer		Customer		Customer	Customer	Customer