

Description & Features

- Isolated piezoresistive silicon sensor
- Pressure ranges: from 0...50 mbar up to 0...600 bar
from 0...5 kPa up to 0...60 MPa
- Accuracy: 0.2% F.S. or 0.5% F.S.

Applications

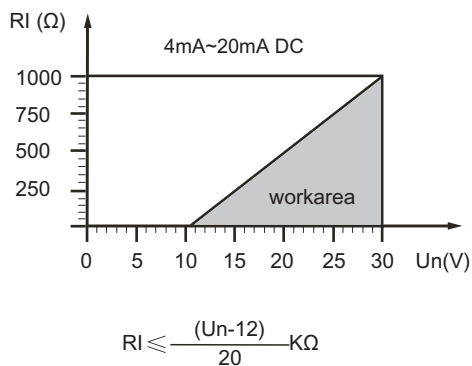
- Machine building
- Mechanical engineering
- Hydraulics / Pneumatics
- General industrial applications
- Process control



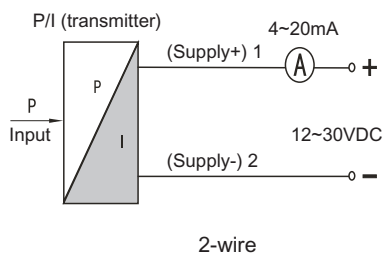
Specifications

Range	Positive gauge pressure		Negative gauge pressure		Absolute pressure	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
	50 mbar 5 kPa	600 bar 60 MPa	-50 mbar -5 kPa	-1 bar -100 kPa	100 mbar 10 kPa	35 bar 3.5 MPa
Accuracy	0.2% F.S., 0.5% F.S.					
Operating voltage	12...30VDC, 24VDC					
Signal output	4...20mA, 0...20mA, 0...10VDC, 0...5VDC, 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" B, G1/4" B, 1/2" NPT, 1/4" NPT, 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					

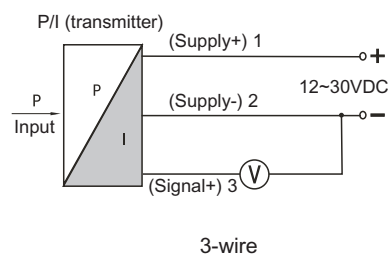
Load Characteristics



Pin Configuration

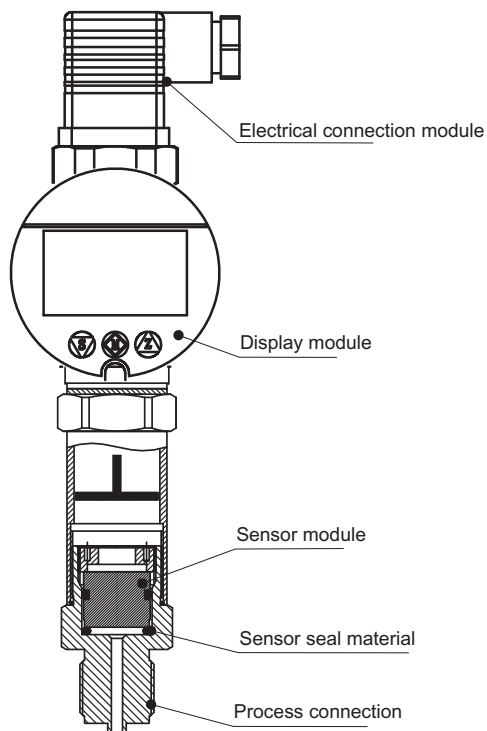


2-wire (4~20mA)
DIN 43650 Pg 9.
1 Supply+
2 Supply-

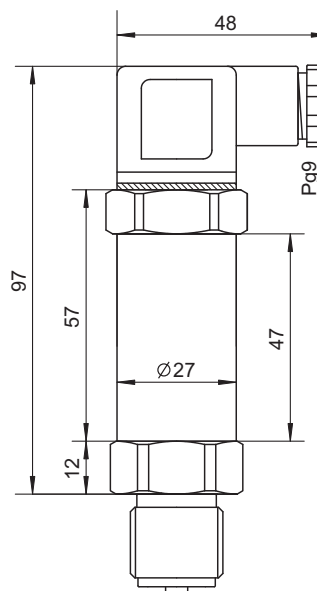


3-wire
DIN 43650 Pg 9.
1 Supply+
2 Supply-
Signal-
3 Signal+

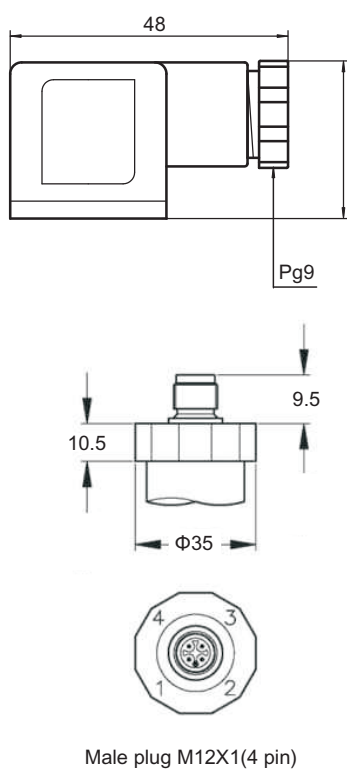
Installation Figure



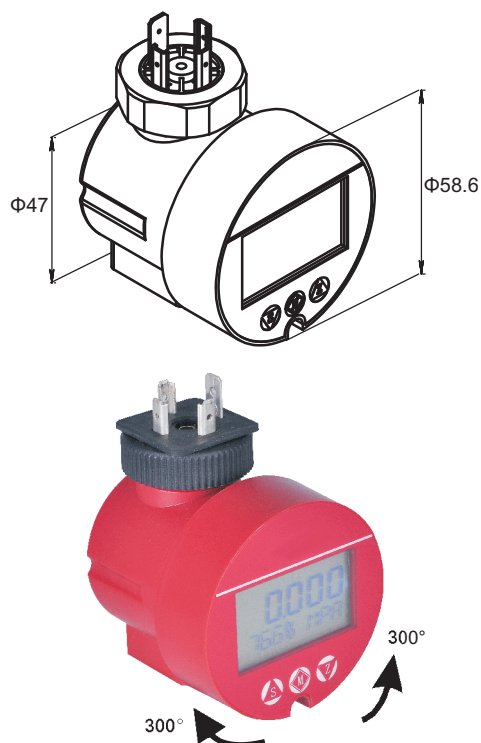
Dimensions (Unit: mm)



Electrical Connections (Unit: mm)



LCD Dimensions (Unit: mm)



Electrical Connections Figure (Unit: mm)



L - Connector
DIN43650 Pg9

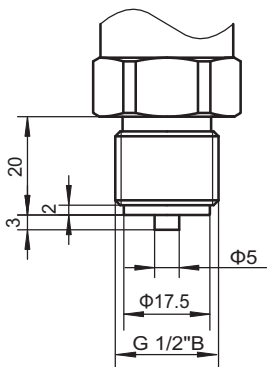


L - Connector
Male plug M12X1(4 pin)

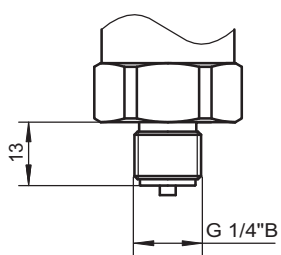


Flying leads

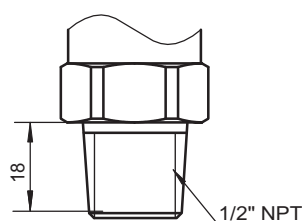
Process Connections (Unit:mm)



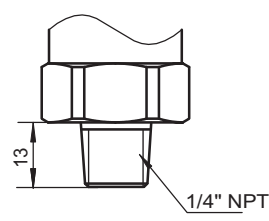
G 1/2" B



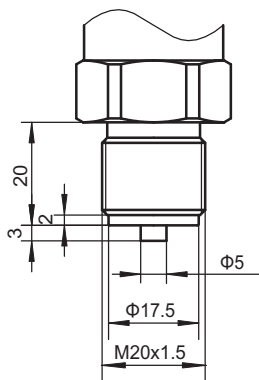
G 1/4" B



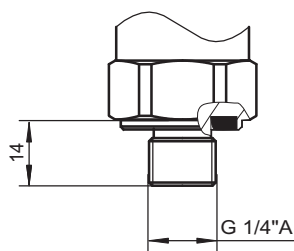
1/2" NPT



1/4" NPT



M20X1.5



G 1/4" A

Ordering Code LY2 Series

Isolated piezoresistive silicon sensor

Pressure ranges: from 0...50 mbar up to 0...600 bar
 from 0...5 kPa up to 0...60 MPa

Accuracy: 0.2% F.S. or 0.5% F.S.



Field No.	Code	Specifications
1.	LY2	Series
2.	G	Pressure Type Gauge
	A	Absolute
3.	XXXX	Input (See LY2 Series Pressure Range) Range
4.	1	Output 4...20mA / 2-wire
	2	0...20mA / 3-wire
	3	0...10VDC / 3-wire
	5	0...5VDC / 3-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)
	99	Customer request
7.	0	Display Without Display
	C	LCD
	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"B
	N00	1/2" NPT
	M00	M20X1.5
	400	G1/4"B
	N40	1/4" NPT
	999	Customer request
11.	1	Seals VITON
	5	PTFE
	3	Stainless steel welding
	9	Customer request

Ordering Code LY2 Series Pressure Range

Code	Input		Overload		Sensor Type	
	Range	Gauge pressure			Ultra-stable type	Common type
					√=available ×=not available	
G0010	0-100 mbar	0-10kPa	1050 mbar	105kPa	√	×
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	0-10MPa	150 bar	15MPa	√	√
G1200	0-200 bar	0-20MPa	300 bar	30MPa	√	√
G1300	0-300 bar	0-30MPa	525 bar	52.5MPa	√	√
G1400	0-400 bar	0-40MPa	1050 bar	105MPa	√	√
G1600	0-600 bar	0-60MPa	1050 bar	105MPa	√	√
Absolute pressure						
A0010	0-100 mbar	0-10kPa	1050 mbar	105kPa	√	×
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						
C0005	-50 mbar-50 mbar	-5-5kPa	1050 mbar	105kPa	√	×
C0010	-0.1 mbar-100 mbar	-10-10kPa	1050 mbar	105kPa	√	×
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	√	×
C2000	-1000 mbar-20 bar	-100kPa-2.0MPa	52.5 bar	5.25MPa	√	×
9999	Customer		Customer		Customer	Customer