

Specific&Performance

- Output signal: 4-20mA, PNP, NPN
- Pressure range: 0...1 kPa to 0-40 MPa
- Display can rotate 350°
- With LED display on site

Application

- Construction machine
- Food&beverage
- Pharmaceutical machine
- Process control



Specification

Sensor technology	Piezoresistive		
Pressure range	from 1 kPa to 40 MPa		
Accuracy (25°C)	0.1% URL		
Zero thermal drift	≤0.02% of URL per °C		
Span thermal drift	≤0.02% of URL per °C		
Long term stability	0.04% of URL per year		
Turn down	10:1		
IP protection	IP67		
Temperature range	Compensation	Ambient	Storage
	-20-80°C	-40-85°C	-40-85°C
Output signal	4-20mA 3-wire, 0.5-4.5V 3-wire, PNP or NPN		
Supply voltage	10-30VDC(4-20mA) , 12-30VDC(0.5-4.5V)		
Load in Ω	4-20mA: $RL \leq (U_s - 10V) / 21mA$; 0.5-4.5V: $\geq 5 k\Omega$		
Insulation resistance	> 20MΩ at 100VDC		
Consumption	1.44W (4-20mA); 1W (0.5-4.5V)		
Service life	10 million pressure cycles		
Net Weight	1kg		
Influence of position	≤400 Pa at any position		
Starting time	≤3S		
Electrical connection	M12*1 5pins		
Process connection	Please refer ordering code		

Range

Range	6kPa	40kPa	1MPa	10MPa	40MPa
Min range	1kPa	2kPa	50kPa	500kPa	5MPa
Max range	25MPa	25MPa	25MPa	25MPa	42MPa

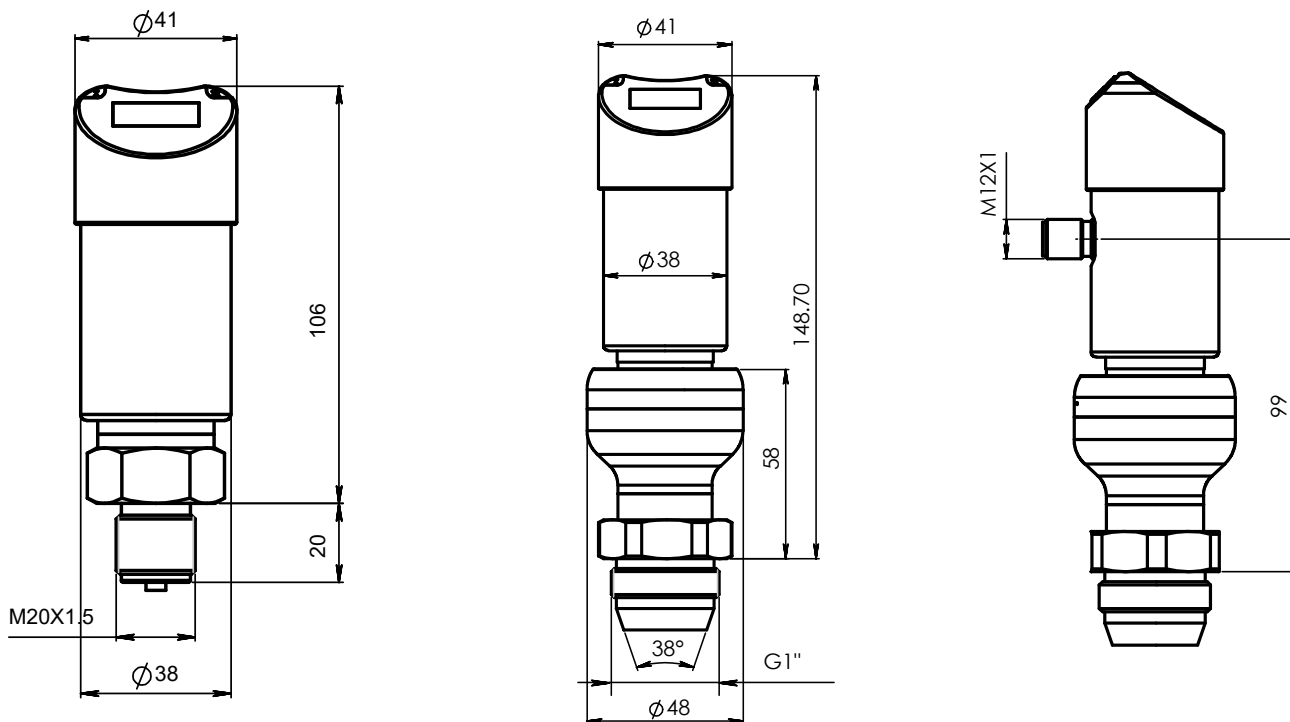
EMC data

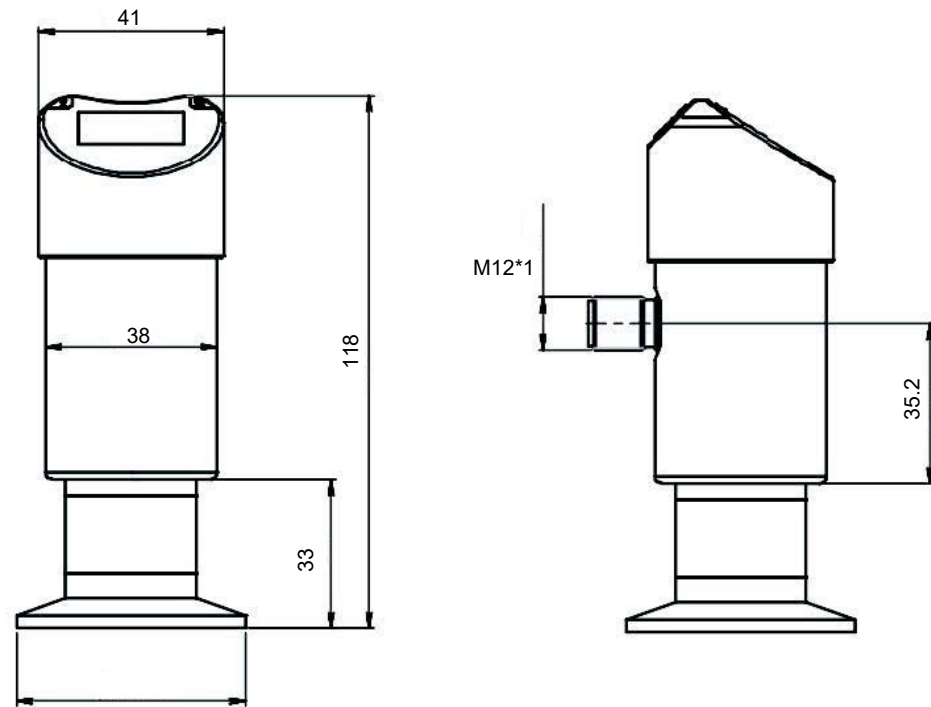
Code	Testing item	Related standard	Data	Result
1	Radiated disturbance	GB/T 9254/CISPR22	30MHz-1GHz	Pass
2	Conducted disturbance	GB/T 9254/CISPR22	0.15MHz-30MHz	Pass
3	Electrostatic discharge(ESD)	GB/T 17626.2/IEC 61000-4-2	4kV(contact),8kV(air)	B ^②
4	Radio-frequency electromagnetic field immunity	GB/T 17626.3/IEC 61000-4-3	10V/m, 80MHz-1GHz	A ^①
5	Power-frequency magnetic fields immunity	GB/T 17626.8/IEC 61000-4-8	30A/m	A ^①
6	Electrical fast transients(EFT)	GB/T 17626.4/IEC 61000-4-4	2kV(5/50nS,100kHz)	B ^②
7	Surges	GB/T 17626.5/IEC 61000-4-5	1kV(L1-N),2kV(L1-PE)	B ^②
8	Radio-frequency magnetic fields immunity	GB/T 17626.6/IEC 61000-4-6	3V(150kHz-80MHz)	A ^①

Notes: ①: A: During testing, normal performance within the specification limits

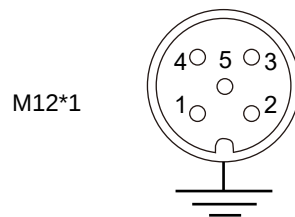
②: B: During testing, temporary degradation, or loss of function or performance which is self-recovering

Dimensions (unit: mm)





Connection pins



Pin	
1	Power "+"
2	Alarm 2
3	Power "-"
4	Alarm 1
5	Signal "+"

LY49 ordering code

Code		Specification	
1.		LY49	Series
			Pressure type
2.		G	Rel
		A	Absolute
			Pressure range
3.		XXXX	Please input the range you need(ie: 0-10bar)
			Output signal
4.		1	4-20mA 3-wire
		2	0.5-4.5V 3-wire
5.		0	without
			Alarm signal
6.		1P	one way PNP
		1N	one way NPN
		2P	two way PNP
7.		2N	two way NPN
		PN	one way PNP, one way NPN
		00	without
			First alarm
8.		11	NO
		12	NC
		10	without
			Second alarm
9.		21	NO
		22	NC
		20	without
			Process connection
10.		ZM	M20*1.5 (M)
		2B	G1/2" (M) EN837
		4B	G1/4" (M) EN837
		2N	1/2"-14NPT (M)
		4N	1/4"-18NPT (M)
		2F	1/2"-14NPT (F)
		4F	1/4"-18NPT (F)
		15	1" or 1.5" Tri-clamp
		20	2" Tri-clamp
		1B	G1"(M) flush diaphragm
		5B	G1.5"(M) flush diaphragm
11.			Wetted parts
		B3	304SS
		C3	316SS
		D3	316LSS
			Option
12.		HC	HaC diaphragm
		LO	When alarm trigger, red light on(default)
		LM	When alarm trigger, red light off