

Specific&Performance

- Pressure Range: from 0-10 kPa to 0-2.5 MPa
- Fullfil for 3A requirements
- Sensor fully welded
- Surface roughness $Ra \leq 0.4 \mu m$
- Suitable for SIP/CIP

Application

- Food & Beverage
- Biological Engineering
- Pharmaceutical



Specification

Sensor technology	Piezoresistive silicon		
Pressure range	Minimum 10 kPa, Maximum 2.5 MPa		
Accuracy (25°C)	0.2%FSO(standard), 0.1%FSO(option)		
Zero thermo drift	$\leq 0.02\%$ of FS per °C		
Span thremo drift	$\leq 0.02\%$ of FS per °C		
Long term drift	0.2% of FS per year		
Turn down	10:1		
IP protection	IP67 EN60529		
Temperature	Compensated range	Enviroment temperature	Storage temperature
	-20-85°C	-20-70°C	-40-85°C
Medium temperature	Without cooling tower: -40-120°C	With cooling tower: -40-200°C	
Output signal	4-20mA 2-wire		
Supply voltage	10.5-30VDC (24VDC recommend)		
Load in Ω	$RL \leq (Us - 10.5V) / 21mA$		
Vibration resistance	10g, 25Hz...2kHz		
Shock resistance	500g ,1mS		
Insulation resistance	$> 2.0M\Omega$ at 100VDC		
Process connection	Please refer the ordering code		
Service life	10 million load cycles		
Response time(10%....90%)	$\leq 10mS$		
Electric protection	Reversed polarity	Over voltage	Short circuit
	"+" and "-"	50VDC	Protected
Digital display	LCD		

Pressure range

Rel pressure (unit bar)

Pressure range	0-0.1	0-0.16	0-0.25	0-0.4	0-0.6
Over pressure	0.3	0.3	0.5	1.5	1.5
Ordering code	12	13	14	15	16

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

Pressure range	0-10	0-16	0-25		
Over pressure	25	25	50		
Ordering code	22	23	24		

Abs pressure (unit bar)

Pressure range	0-0.1	0-0.16	0-0.25	0-0.4	0-0.6
Over pressure	0.3	0.3	0.5	1.5	1.5
Ordering code	12	13	14	15	16

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

Pressure range	0-10	0-16	0-25		
Over pressure	25	25	50		
Ordering code	22	23	24		

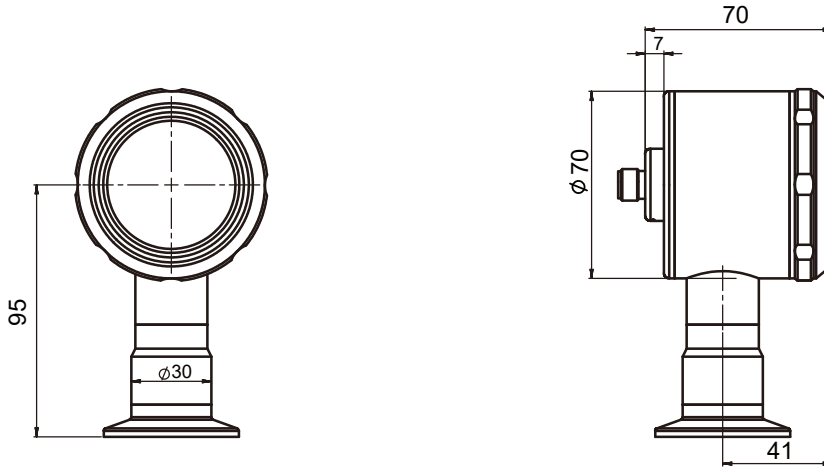
Vacuum pressure(unit bar)

Pressure range	-0.1-0	-0.16-0	-0.25-0	-0.4-0	-0.6-0
Over pressure	0.3	0.3	0.5	1.5	1.5
Ordering code	51	52	53	54	55

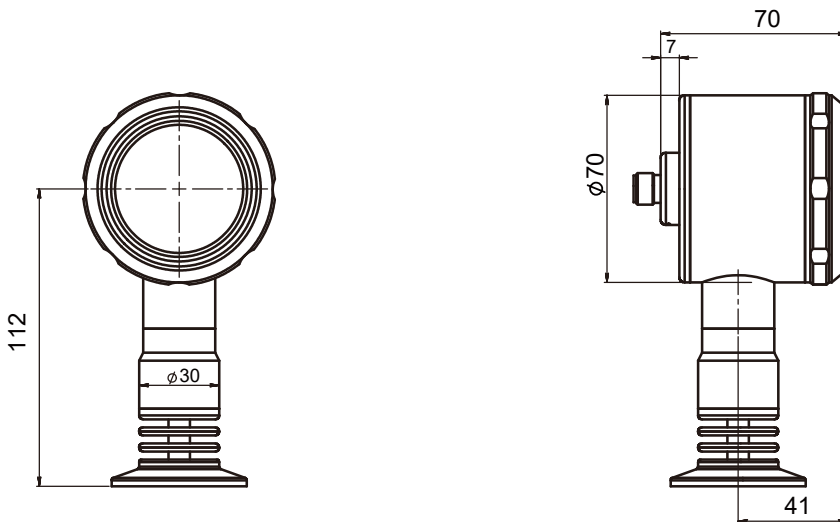
Pressure range	-1-0	-1-0.6	-1-1.5	-1-3	-1-5
Over pressure	3	3	10	10	15
Ordering code	56	57	58	59	60

Pressure range	-1-9	-1-15	-1-24		
Over pressure	25	25	50		
Ordering code	61	62	63		

Dimensions(mm)



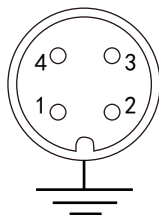
Without cooling tower



With cooling tower

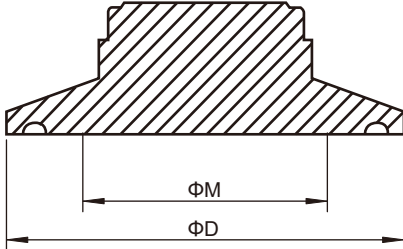
Connection pins

M12*1 connection

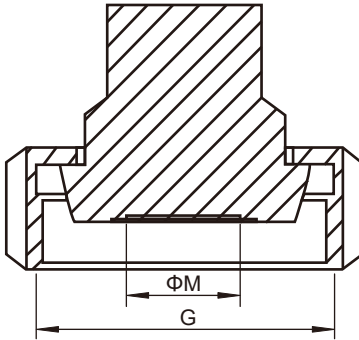


Pin	2-wire
1	Power “+”
2	
3	
4	Power “-”

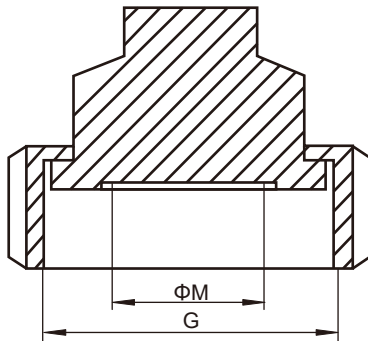
Process connection dimensions (mm)



Standard	DN	Diameter(ΦD)	Diaphragm(ΦM)
Trip-Clamp	1-1/2"	50.5	31
Trip-Clamp	2"	64	42
DIN32676	DN32	50.5	31
DIN32676	DN40	50.5	31
DIN32676	DN50	64	42
ISO2852	DN38	50.5	31
ISO2852	DN40	64	42
ISO2852	DN51	64	42



Standard	DN	Thread(G)	Diaphragm(ΦM)
DIN11851	DN25	Rd 52*1/6	20
DIN11851	DN40	Rd 65*1/6	31
DIN11851	DN50	Rd 78*1/6	42



Standard	DN	Thread(G)	Diaphragm(ΦM)
SMS	1-1/2"	Rd 60*1/6	31
SMS	2"	Rd 70*1/6	42

LY21 series ordering code

	Code	Specification
1.	LY21	Series
		Pressure type
2.	G	Gauge pressure
	A	Absolute pressure
3.		Pressure range
	XXXX	Please refer the range in Page 2
		Output signal
4.	1	4-20mA 2-wire
		Accuracy
5.	2	0.2%FSO
	1	0.1%FSO
6.	1	Bottom
	2	Back
		Connection material
7.	L	316L SS
	H	HaC
8.	1	1.5" Tri- Clamp
	2	2" Tri- Clamp
	3	DN32 DIN32676
	4	DN40 DIN32676
	5	DN50 DIN32676
	6	DN50 ISO2852
	7	DN50 ISO2852
	8	DN50 ISO2852
	A	DN25 DIN11851
	B	DN40 DIN11851
	C	DN50 DIN11851 1.5"
	D	SMS with union nut
	E	2" SMS with union nut
		Cooling tower
9.	0	Without
	1	With

LY21 series ordering code

	Code	Specification												
1.		Used for M12*4 connection												
		<table border="1"> <thead> <tr> <th></th> <th>1m cable</th> <th>2m cable</th> <th>5m cable</th> </tr> </thead> <tbody> <tr> <td>Straight type</td> <td>1101</td> <td>1102</td> <td>1105</td> </tr> <tr> <td>90° L type</td> <td>2201</td> <td>2202</td> <td>2205</td> </tr> </tbody> </table>		1m cable	2m cable	5m cable	Straight type	1101	1102	1105	90° L type	2201	2202	2205
	1m cable	2m cable	5m cable											
Straight type	1101	1102	1105											
90° L type	2201	2202	2205											