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TECHNOLOGY GROUP

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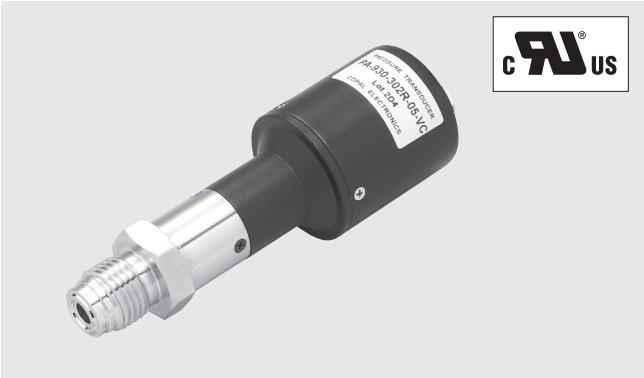
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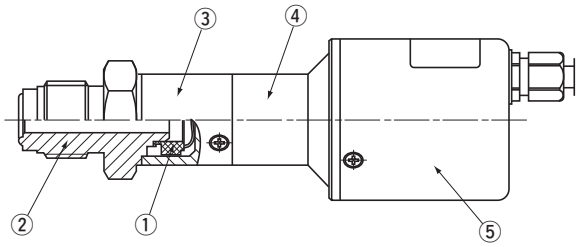
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PRESSURE TRANSDUCERS WITH AMP. PA-930



INTERNAL STRUCTURE (VC)



	Part name	Material
①	Sensor module	Nickel alloy
②	Pressure port	SUS316L
③	Pipe	SUS304
④	Joint	PBT (Polybutyleneterephthalate)
⑤	Cover	Aluminum

FEATURES

- Suitable for high temperature media (150 °C)
- Compact and light weight due to original heat insulation technology
- High corrosion resistant SUS 316L port and nickel alloy sensor module

MODEL NUMBER DESIGNATION

PA-930-102R-VC

Series name

Rated pressure range

102V： 0 ~ –100 kPa（Gauge-Vacuum）
102G： 0 ~ 100 kPa（Gauge）
102R：–100 ~ 100 kPa（Gauge-Compound）
103G： 0 ~ 1000 kPa（Gauge）
302R：–100 ~ 300 kPa（Gauge-Compound）

Pressure port

VC：9/16-18UNF
R2：R1/4 (PT1/4)

LIST OF MODEL NUMBERS

(kPa) Rated pressure range	Pressure port	
	9/16-18UNF	R1/4 (PT1/4)
0 ~ –100	PA-930-102V-VC	PA-930-102V-R2
0 ~ 100	PA-930-102G-VC	PA-930-102G-R2
–100 ~ 100	PA-930-102R-VC	PA-930-102R-R2
–100 ~ 300	PA-930-302R-VC	PA-930-302R-R2
0 ~ 1000	PA-930-103G-VC	PA-930-103G-R2

※ Verify the above model numbers when placing orders.

PA-930
PRESSURE TRANSDUCERS WITH AMP.

STANDARD SPECIFICATIONS

● Unless otherwise specified, the specs are defined at a pressure port temperature of 125 ± 5 °C and at an ambient temperature of 25±5 °C and excitation voltage of 24 V DC.

Item / Model number			PA-930				
			102V	102G	102R	302R	103G
General specifications	Pressure reference		Gauge				
	Rated pressure range	kPa	0 ~ – 100	0 ~ 100	– 100 ~ 100	– 100 ~ 300	0 ~ 1000
	Maximum pressure	kPa	200	200	200	600	1500
	Break-down pressure	kPa	300	300	300	900	1500
	Pressure medium		Corrosive gases/liquids compatible with SUS 316L and nickel alloy				
	Operating / Compensated	°C	0 ~ 50（Circuit Board） 0 ~ 150（Pressure port） ／ 100 ~ 150（Pressure port）				
	Operating humidity	%RH	35 ~ 85（No condensation）				
	Storage temp.	°C	– 20 ~ 70（Atmospheric pressure, humidity 65 %RH maximum）				
	Insulation resistance	MΩ minimum	50 (125 V DC)				
	Dielectric strength		125 V DC, 60 s（Leakage current 1 mA maximum）				
	Pressure port		9/16-18UNF, R1/4				
	Net weight	g	Approx. 100				
Power	Supply voltage	V DC	12 ~ 24 ± 10 %				
	Ripple content	maximum	10 % (P-P)				
	Consumption current	maximum	20 mA				
Analog output	Output voltage	V DC	1 ~ 5				
	Zero voltage	V ※ 1	1 ± 0.04		3 ± 0.04	2 ± 0.04	1 ± 0.04
	Span voltage	V ※ 1	4 ± 0.04				
	Output current		1 mA max. (Load resistance 5 kΩ min.)				
	Linearity/Hysteresis	%F.S.	± 0.5				
	Thermal error	ZERO	± 0.10 %F.S./°C (100 to 150 °C, Reference temp. at 125 °C)				
		SPAN	± 0.10 %F.S./°C (100 to 150 °C, Reference temp. at 125 °C)				
	Response		Approx. 2 ms.				

※ 1：Pressure port temperature : 125 °C
Ambient temperature : 25 °C

PA-930
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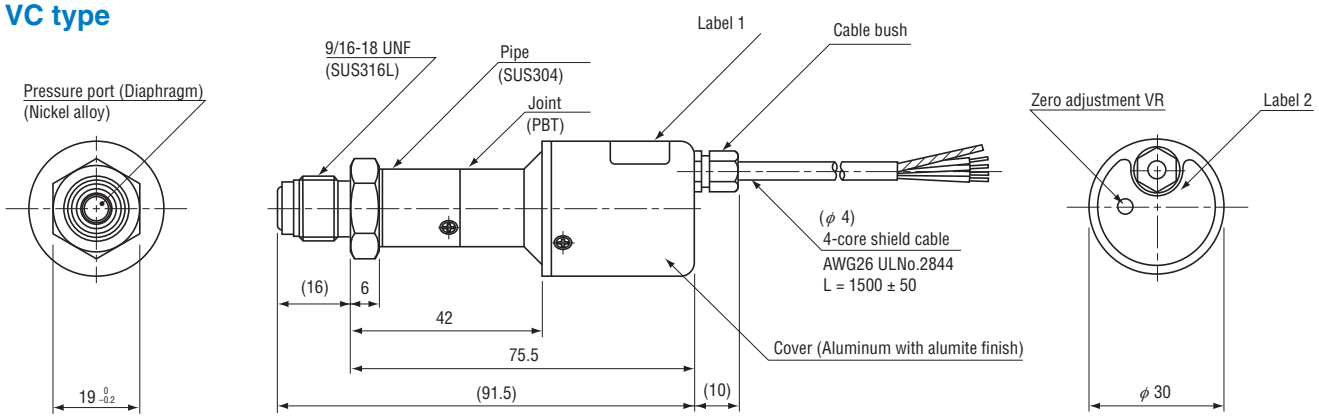
■ ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions (At 25 ± 5 °C)	Permissible change
Vibration	10 ~ 500 Hz, 1.5 mm maximum/98.1 m/s², 3 directions for 2 hours each	Zero voltage, Span voltage: ± 1 %F.S. maximum each
Shock	490 m/s², 3 directions for 3 times each	
Pressure cycling	0 ~ Rated pressure, 10^6 cycles	
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.	

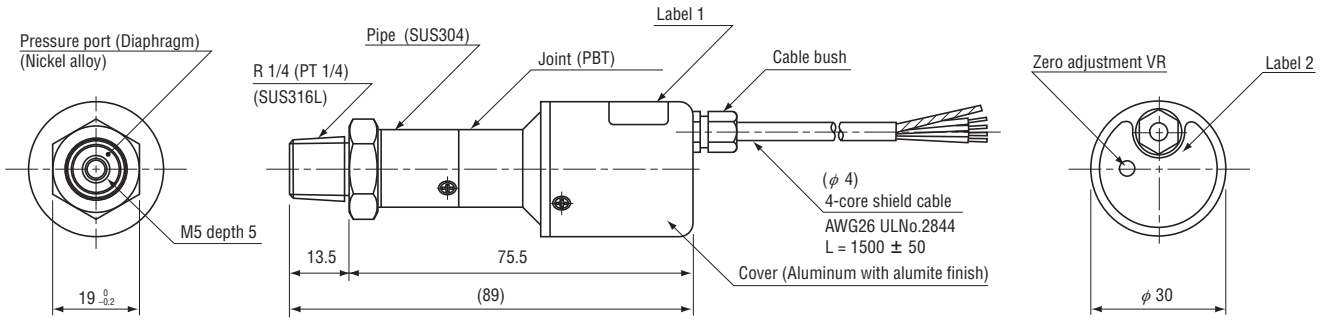
■ OUTLINE DIMENSIONS

Unless otherwise specified, tolerance : ± 0.5 (Unit: mm)

● VC type

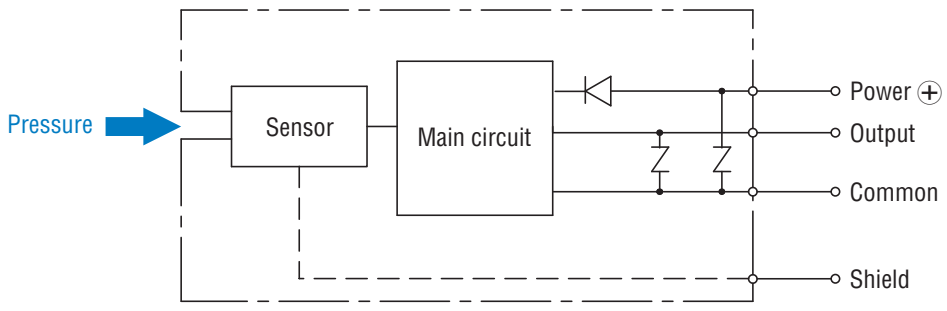


● R1/4 (PT1/4) type



Wire color	Connection
Red	Power ⊕
White	Output
Black	Common
Green	N.C.
Shield	Fitting

■ INTERNAL ELECTRICAL SCHEMATICS



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