PIEZO

RSN-P (Road Sensor NOVACOS - Piezo)

The RSN–P is designed to be installed in the surface of the road for collecting traffic reports. The sensor is possible to be built under the configuration of the road and also designed to reduce the bending of the road, decrease the noise of the side lane and approaching vehicles signal. The specialized technology of NOVACOS makes it possible to install with least cutting so lesson the damage of the road and also reduce the use of the material for road suture.

RSN-P Performance

Section	Description
Temperature range	–40° C ~ 70° C
Default power range	more than 250mV
Signal cable	RG–58C/U
Insulation resistance	〉500MΩ

RSN-P Specification

Section	Description
Internal sensor	A plane surface, Tailoring, Silver gilt copper wire
Sensor type	PVDF Piezoelectric film
Exterior material	0.2cm Thickness Brass
Sensor size	Length 2500mm, Thickness 1.9mm ±3%, Width 6.7mm ±2%
Signal cable	RG–58C/U, Cable order production possible

RSN-P Properties

- RSN–P generates stated of high amplitude of piezoelectric and it used for classification of vehicles and counting the number of the vehicles
- It also can eliminate all of, signal noises of the side lanes and all kind of road signal noises by approaching vehicles
- We are provided distinguished technology and material for load sensing It is designed for easily set up and reduction of road cutting and minimized the use of the resin material
- The sensor signal leveling is possible by maintaining the depth of the surface of road equally
- Best products provided that pass the pre–test, before take out, with 100 percent reliability
- We are fully provided for confidence and Optimization to Korea expressway condition and the durability of the client demand

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RSN-P Detail specification

Manufacture	Test items	Test method	Test conditions	Acceptance criteria
NOVACOS	**function**			
	Output Level	KS C 5529	① Insistence : (12 ± 1) g ② Height : (70 ± 5) ㎜	1 ~2.5V
	Output Uniformity		Measurement of the output voltage equivalent to five point	±20% in less than
	Insulation Resistance		① DC 500 V, 1min ② Between Core and Shield	more than 2,000MΩ
	Capacitance		① 1 V, 1 kHz ② Between Core and Shield	6~12nF
	Output Delay Time		Sensor cable at both ends	0.1㎳ in less than
	Tensile Strength		Cable connections	more than 0.35kN
	Conditions			
	High Temperature Test	KSC0221	① Temperature : (70 ± 2) ℃ ② Test time : 96 hours	
	Low Temperature Test	KSC0220	① Temperature : (-40 ± 3) ℃ ② Test time : 96 hours	
	Rapid Temperature - Change Test	KSC0225	① (70 ± 2) ℃, 2 hours ② (-40 ± 3) ℃, 2 hours ③ Test cycle : 50 cycle	
	Immersion Test	MIL-STD -883E	① Sodium chloride Saturated solution ② (65 ± 2) ℃, 1 hours ③ (0 ± 3) ℃, 1hours ④ Test cycle : 5 cycle	
	Temperature-Change Test with Specified rate	KSC0025	① (20~ -40 ~60~20) ℃, 20 ℃ interval ② Test time: The temperature by 1 hour ③ Temperature change : 1 ℃/min ④ Temperature Capacitance measure