

MODEL KSV-9N-

**COMPACT CAPACITANCE
LEVEL SENSOR**



Features

- Compact and light weight, but integral construction
- NPN open collector can be directly connected to the relay output
- Operational indicator is provided
- Easy to adjust sensitivity by adjusting knob
- PR2100-7U is a Power Relay Unit for KSV-9N series
- 2-SPST relay output and self-holding control are available by using PR2100-7U

General Description

KSV-9N series are designed to use in small tank and suitable for the built-in level sensor of small or mass production devices. This sensor can detect general application of both liquids and solids. The option of plastic covered probe is available for conductive medium such as aqueous solution, grain and sugar contained moisture, metal powder and so on.

Ordering Information

KSV-9N					
	1	Standard sensitivity 0 to 20pF			
	3	Low sensitivity 0 to 100pF			
		1	L=150mm		
		2	L=300mm		
		3	L=600mm		
		1	20mm earth rod		
		3	100mm earth rod		
		(Null)	Standard Probe		
		M	Plastic covered Probe		
KSV-9N	1	1	1		= KSV-9N-111

Description of Model Number

Electrode	Stainless Steel Probe Type		Plastic Covered Probe Type	
	Length of L2	20mm	100mm	20mm
Length of L1	Model Number	Model Number	Model Number	Model Number
150mm	KSV-9N-111	KSV-9N-113	KSV-9N-111M	KSV-9N-113M
300mm	KSV-9N-121	KSV-9N-123	KSV-9N-121M	KSV-9N-123M
600mm	KSV-9N-141	KSV-9N-143		

Specifications

Sensor

Model	KSV-9N-□□□	
Drawing		
Mounting	R1"	
Supply Power	24V DC $\pm 10\%$	
Current Consumption	Approx. 21mA Max.	
Output	NPN Open Collector	
Oscillation Frequency	Approx. 600KHz	
Operating Temperature	-10°C to 70°C (Get rid of dew)	
Maximum Pressure	1.57MPa Max. for electrode	
Maximum Humidity	35% to 95% RH	
Sensitivity	0 to 20pF for standard, 0 to 100pF for low sensitivity	
Material	Electrode	304SS
	Plug	304SS
	Insulator	POM
Protection	IP67 equivalent	
Length of Electrode	150mm, 300mm, 600mm	

Controller

Model	PR2100-7U	
Drawing		
Supply Power	100/110/200/220V AC $\pm 10\%$	
Power Consumption	Approx. 4VA Max.	
Relay Contact	2 SPST, 200V 2A AC, 12V 10mA DC (Resistive)	
Output Power*	24V DC 35mA	
Operating Temperature	-10°C to 40°C (Get rid of dew)	
Operating Humidity	45 to 85%RH Max.	
Indication	Red LED for relay states	
Mounting	11-pin base, plug-in type	

Base is optional and must be ordered separately.

*Output power is supplied to the sensor.