Model KLW-3

Signal Isolation and Conditioners Module

DESCRIPTION

The KLW-3 series signal conditioners modules are used for electrical isolation and conversion of the temperature or resistance voltage signals. The module input and output electronics are isolated by a DC/DC converter from the auxiliary supply. The KLW-3 modules ensure reliable decoupling of a sensor circuit from the processing circuit and thus also avoid cross-coupling of several sensor circuits. The 3-way isolation means that the modules can be used universally, both on the site and in the vicinity of the controller for the conversion of signals and as electrical isolation, and along the transmission path to bridge apparent.

FEATURES

- *The 3-way isolation (input, output and supply)*
- *One analog signal input*
  (Temperature resistance, Thermocouple or Slip resistance)
- *0.2% accuracy (Thermocouple: 0.3%)*
- *One output signal (4-20mA or 0-5Vdc)*
- *-5°C ~55°C; 0%RH~90%RH*

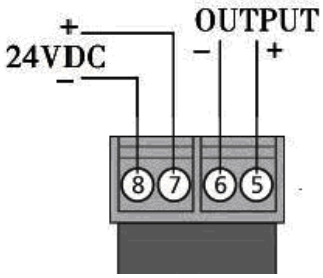
PERFORMANCE SPECIFICATIONS

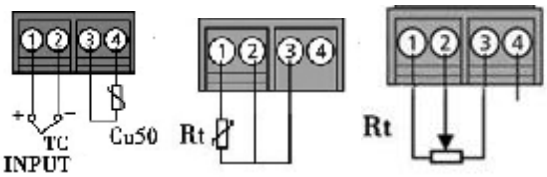
Supply	24VDC (18-30V)
Power	2W
Input Range	Thermocouple(E, K, S, B) Temperature (Cu50, Cu100,Pt50,Pt100) Slip resistance (<20KΩ)
Output	1 or 2 road output signals Current: 4-20mA (load<350Ω) Voltage: 0-5VDC(load >550Ω)
Accuracy	Thermocouple: 0.3% F·S Others: 0.2%F·S
Response time	<0.5s (0-90%RH)
Temperature stability	Temperature: <0.015% /°C
Operating environment	-5°C ~55°C； 0%RH~90%RH
Mounting dimension	26mm x 81mm x81mm

ORDER CODES

KLW-3			
	11		Thermocouple(E), 0 to 50°C ~ 800°C
	12		Thermocouple(K) , 0 to 75°C ~ 1300°C
	13		Thermocouple(S) , 0 to 380°C ~ 1600°C
	14		Thermocouple(B) Range 400 to 780°C ~ 1800°C
	21		RT (Cu50), -50°C to 50°C ~ 150°C
	22		RT (Cu100), -50°C to 50°C ~ 150°C
	23		RT (Pt50), -200°C to 200°C ~ 600°C
	24		RT (Pt100), -200°C to 50°C ~ 150°C
	3		Slip resistance (<20KΩ)
		1	4-20mA (the first output)
		2	0-5VDC (the first output)

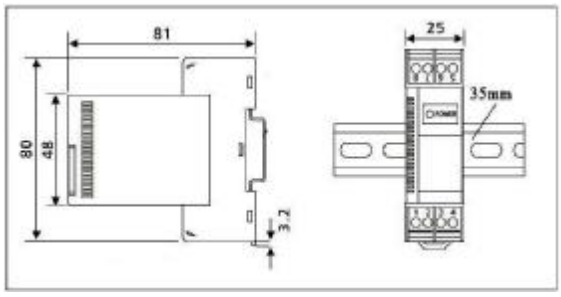
ELECTRICAL CONNECTION





Thermocouple Resistance temperature Slip resistance

MOUNTING DIMENSION



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