Model KLP-3

4-20mA Signal Isolation and Conditioners Module

DESCRIPTION

The KLP-3 series signal conditioners modules are used for electrical isolation and conversion of analog signals. The module input and output electronics are isolated by a DC/DC converter from the auxiliary supply. The module also provides the power supplies for the 2-wire 4-20mA sensors or transmitters. The KLP-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.

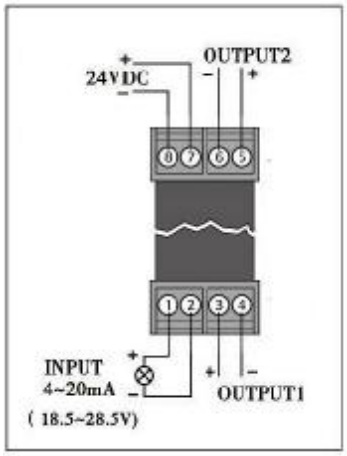
FEATURES

- *The 3-way isolation (input, output and supply)*
- *Supply for the 4-20mA signal sensors or transmitter.*
- *0.1% accuracy*
- *One or two output (4-20mA or 0-5Vdc)*

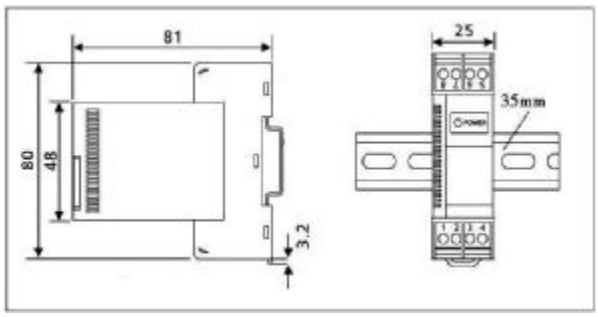
PERFORMANCE SPECIFICATIONS

Supply	24VDC (18-30V)
Power	2W
Input Range	2-wire 4-20mA sensor or transmitter
Output	1 output or 2 outputs Current: 4-20mA (load<350Ω) Voltage: 0-5VDC(load >550Ω)
Accuracy	±0.1%(25°C)
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

ELECTRICAL CONNECTION



MOUNTING DIMENSION



ORDER CODES

KLP-3				
	1	4-20mA (input signal)		
		1	4-20mA (the first output)	
		2	0-5Vdc (the first output)	
			0	None second output
			1	4-20mA (the second output)
			2	4-20mA (the second output)

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Model KLW-3

Signal Isolation and Conditioners Module

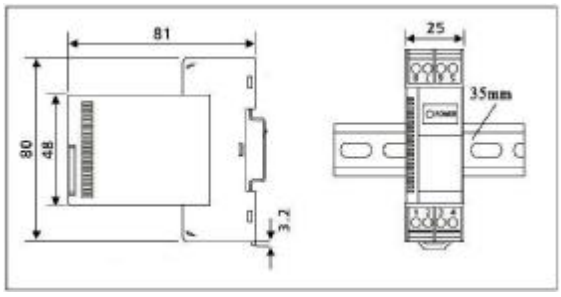
DESCRIPTION

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.

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

MOUNTING DIMENSION



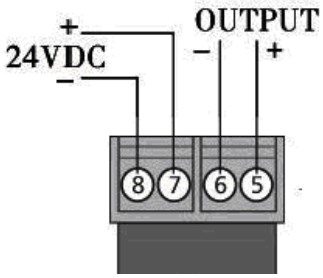
FEATURES

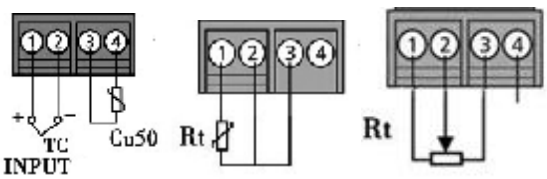
- *The 3-way isolation (input, output and supply)*
- *One analog signal*
  (Temperature resistance, Thermocouple, Slip resistance)
- *0.1% accuracy*
- *One output signal (4-20mA or 0-5Vdc)*

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

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Model KLM-3

Signal Isolation and Conditioners Module

DESCRIPTION

The KLM-3 series signal conditioners modules are used for electrical isolation and conversion of analog signals. The module input and output electronics are isolated by a DC/DC converter from the auxiliary supply. The KLP-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.

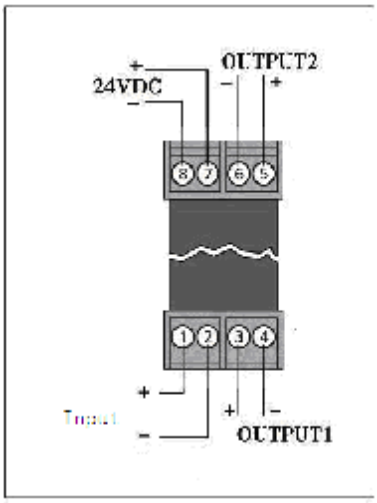
FEATURES

- *The 3-way isolation (input, output and supply)*
- *One input signal (4-20mA or 0-5VDC)*
- *0.1% accuracy*
- *One or two output signal (4-20mA or 0-5Vdc)*

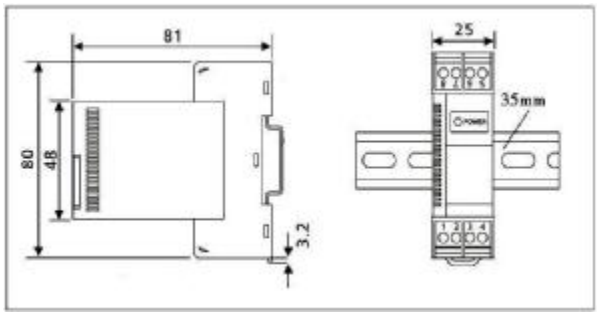
PERFORMANCE SPECIFICATIONS

Supply	24VDC (18-30V)
Power	2W
Input Range	Current: 4-20mA Voltage: 0-5VDC
Output	1 or 2 road output signals Current: 4-20mA (load<350Ω) Voltage: 0-5VDC(load >550Ω)
Accuracy	±0.1%(25°C)
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

ELECTRICAL CONNECTION



MOUNTING DIMENSION



ORDER CODES

KLM-3				
	1	4-20mA (input signal)		
	2	0-5VDC (the first output)		
		1	4-20mA (the first output)	
		2	0-5VDC (the first output)	
			0	None second output
			1	4-20mA (the second output)
			2	0-5VDC (the second output)

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