

Signalu converter ESU ESU-PI2L, ESU-PI3L ESU-PI2K, ESU-PI3K

General description

The signal converter ESU-PI4 transforms the resistance change of a potentiometer into a resistance-proportional 4-20mA standard signal. Both the auxiliary power (voltage 10-36V DC) and the measuring signal (current) are transmitted via a two-wire loop.

The converter ESU-PI3L transforms the value of the potentiometer into a resistance-proportional 0-20mA or 0-10V standard signal. The device variant ESU-PI3L is a 3-wire version with supply 10-36VDC.

The start and end value can be adjusted in the range of approx. 15% or 30% of the potentiometer value.

The modules are encapsulated in an enclosure and provided with wires or spring-loaded terminals for connection.

The signal converters ESU-PI2L and ESU-PI3L or ESU-PI2K and ESU-PI3K are designed for float / reed chain level sensing or control valves with actuator and stroke potentiometer, e.g. series 5100 (ST 5112, ST 5113, ST5114, etc.) from RTK Regeltechnik Kornwestheim, Siemens and others. They can further be used to provide the position of the actuator as an electrical standard signal. However, they can generally be used for signal conversion in all applications where a potentiometer is used.

Features

- start and end value adjustable
- resistance-proportional standard signal
- high interference resistance of the output signal

Technical data

Enclosure	module enclosure 41x31x16mm, plastic ABS grey
Attachment	by sticking, velcro tape or cable tie etc.
Connection	wire 250mm long 0,25mm ² or spring-loaded terminals
Environment	operating temperature -20...+70°C storage temperature -40...+85°C
Input	potentiometer (3-wire-connection)
Range	0-1kΩ until 0-10KΩ
optional	0-200Ω until 0-10KΩ
Start value	0-15 % of potentiometer value
End value	70-100 % of potentiometer value
Accuracy	<±0,2% of end value
Temperature drift	0,005%/K (-20...70°C)
Output	4-20mA (2-wire-connection ESU-PI2L or ESU-PI2K)
or	0-20mA (3-wire-connection ESU-PI3L or ESU-PI3K)
or	0-10V (3-wire-connection ESU-PI3L or ESU-PI3K)
Auxiliary voltage	10...36V DC, ripple ±5%

Please aks for designs according to customer request!

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Technical changes, errors and misprints reserved



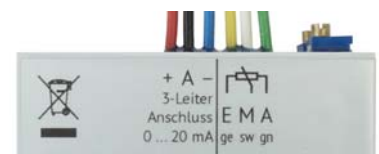
Signal converter ESU-PI2L-KM



Signal converter ESU-PI3K-KM



Connection plan ESU-PI2L-KM



Connection plan ESU-PI3L-KM



Connection plan ESU-PI3K-KM