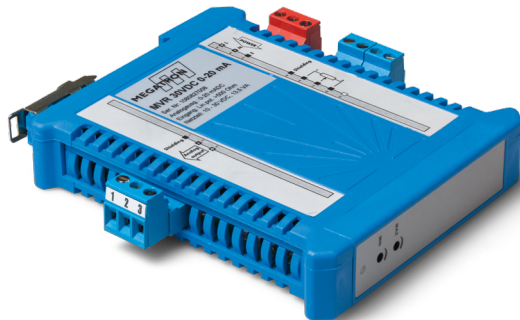


Data Sheet for Amplifier

External amplifier for potentiometers (linear and rotary)

Series MVR



Amplifier for Potentiometer (linear and rotary)

Series MVR amplifiers are available with 30 AC/DC supply and output signals 0..10 V and 0..20 mA.

- DIN-Rail (35 mm) Amplifier: 113 x 98 x 22 mm
- For Potentiometer with 0.5..100 kOhm
- Integrated sensor supply
- For direct connection of linear and rotary potentiometers
- Availability of most common output signals
- Easy adjustment of output signal by trim potentiometers

Electrical Data

Supply voltage	10..30 AC/DC, max. 5 VA, PF $\geq 0,4$ $I_{STP} < 40$ A/1 ms (optional 80..250 AC/DC, max. 5 VA, PF $\geq 0,4$ $I_{STP} < 40$ A/1 ms)
Power consumption (with load)	max. 150 mA @ 24 VDC, max. 300 mA @ 12 VDC
Power consumption (no load)	max. 80 mA @ 24 VDC, max. 100 mA @ 12 VDC
Supply voltage sensor	10 VDC $\pm 0,2\%$
Input	0..10 VDC
Setting range offset	$> \pm 10\%$
Setting range amplification	$> \pm 10\%$
Output signal	0..2 V, 0..5 V, 0..10 V (optional ± 10 V) 0..20 mA / 4..20 mA (optional ± 20 mA)
Noise, residual ripple	< 15 mV _{eff} (DC..20 MHz)
Linearity deviation	$\pm 0,1\%$
Temperature coefficient sensitivity	$< \pm 0,001\% / ^\circ\text{C}$
Temperature coefficient zero point	$< \pm 0,004\% / ^\circ\text{C}$
Limit frequency / Output (3db)	1 kHz
Insulation resistance 1.)	1 GOhm @ 500 VDC
Insulation voltage 1.)	4 kVAC, 1 min
Overvoltage max.	40 V

Mechanical Data, Environmental Conditions, Miscellaneous

Housing	PA66 in 113 x 98 x 22 mm
Mounting	DIN Rail (35 mm)
Operating temperature range	0..+60°C
Storage temperature range	-10..+85°C
Mass	ca. 140 g

1.) According IEC 60393

2.) Determined by climatic conditions according to IEC 68-1, para. 5.3.1 without load collectives

Please note: Max. permissible supply voltage <75 VDC respectively <50 VAC in addition the max. power rating must be observed

Data Sheet for Amplifier

External amplifier for potentiometers (linear and rotary)

Series MVR

Order code				
Description		Selection: standard=black/bold, possible options=grey/cursive		
Series:	MVR			
Supply voltage: 30 V (10..30 V) <i>Option 250 V (80..250 V)</i>		30 VDC <i>250 VDC</i>		
Output signal: 0..5 V 0..10 V ±5 V ±10 V 0..20 mA 4..20 mA			0-5V 0-10V ±5V ±10V 0-20MA 4-20MA	
Excitation voltage: 5 V 10 V				- 10 V

For higher quantities or on-going demand, additional options are available on request

Data Sheet for Amplifier

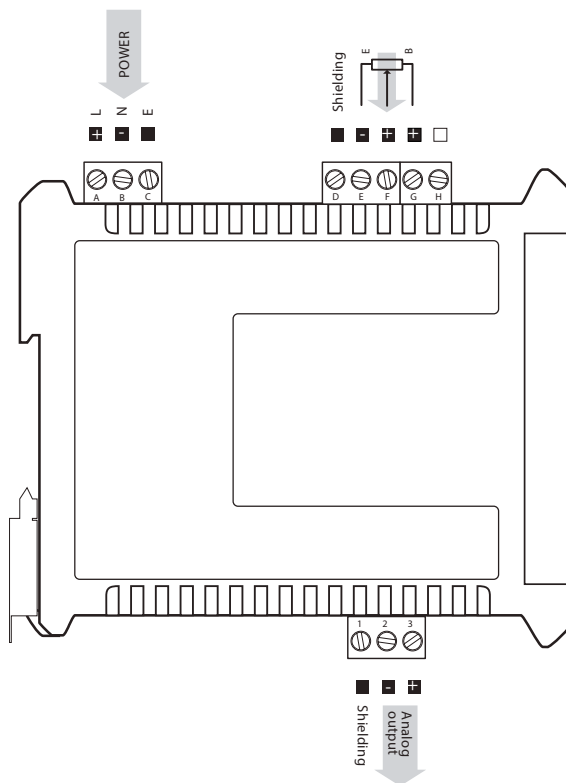
External amplifier for potentiometers (linear and rotary)

Series MVR

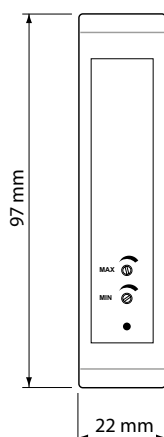
Drawing

CONNECTION

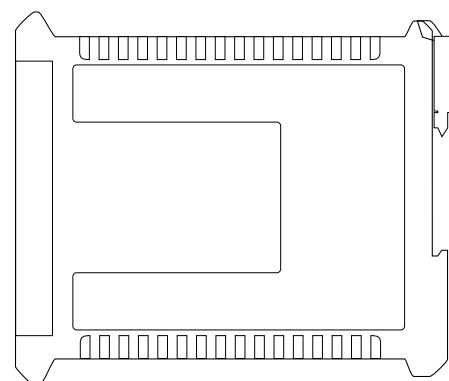
- ! Grounding on terminal „E“ has to be connected at all times.



Front view



Side view



Installation to DIN rail of 35 mm width

