

Data Sheet for Amplifier

Amplifier for potentiometers (linear and rotary)

Series IMA2-R



The IMA2-R-Module is used to convert output signals from potentiometric sensors to standardised output signals.

- For all potentiometer
- Temp. coefficient <0,02% F.S./°C
- Misc. output signals
- Galvanically isolated

Electrical Data	
Supply voltage	24 VDC (18..36 VDC), optional 12 VDC (9..18 VDC)
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	5 VDC (50 mA), optional 10 VDC
Input	0..5 VDC
Setting range offset	> ±15%
Setting range amplification	> ±10%
Output signal	0.5 V / 0..10 V / ±5 V / ±10 V / 0..20 mA / 4..20 mA
Noise, residual ripple	< 15 mV _{eff} (DC..20 MHz)
Linearity deviation	< ±0,02%
Temperature coefficient sensitivity	< ±0,001% /° C
Temperature coefficient zero point	< ±0,004% /° C
Limit frequency / Output (3db)	1 kHz
Insulation resistance 1.)	1 GOhm @ 500 VDC
Insulation voltage1.)	500 VAC, 1 min
Overvoltage max.	40 V

Mechanical Data, Environmental Conditions, Miscellaneous	
Housing	UEGM (PhoenixConact)
Mounting	DIN Rail
Operating temperature range	-25..+85°C
Storage temperature range	-30..+85°C
Mass	ca. 100 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

Amplifier for potentiometers (linear and rotary)

Series IMA2-R

Order code				
Description		Selection: standard=black/bold, possible options=grey/cursive		
Series:	IMA2-R			
Supply voltage: 24 V (18..36 VDC) <i>Option 12 V (9..18 VDC)</i>		24 V 15 V		
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 <i>Option 10 V</i>				- 10 V

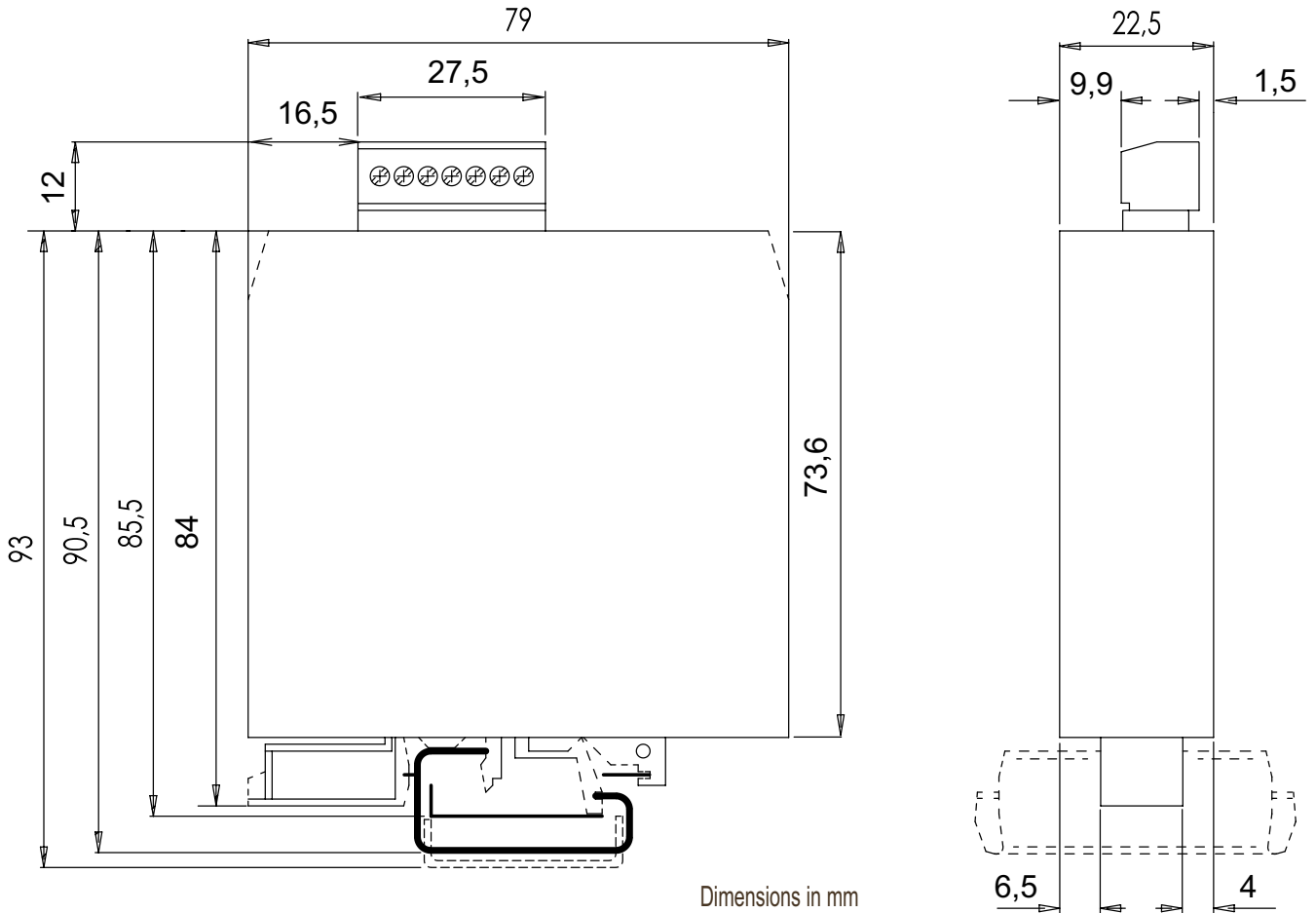
For higher quantities or on-going demand, additional options are available on request

Data Sheet for Amplifier

Amplifier for potentiometers (linear and rotary)

Series IMA2-R

Drawing



Connection

