

## FEATURES

- Analogue-to-analogue converter signal conditioner
- 3-way isolation
- Four output ranges of 0 to 10 V, 0 to 20 mA, -10 to +10 V, 4 to 20 mA
- Input ranges of  $\pm 30$  V,  $\pm 5$  A,  $\pm 50$  mA
- Minimum operating temperature of  $-40^{\circ}\text{C}$
- Maximum operating temperature of  $+70^{\circ}\text{C}$
- Rated IP20 for basic protection against accidental finger contact
- Class I, cULus, Div. 2, Groups A, Groups B, Groups C, Groups D, Groups T4 compliant

**RS PRO  $\pm 30$  V,  $\pm 5$  A,  $\pm 50$  mA  
Input, 0  $\rightarrow$  10 V, 0  $\rightarrow$  20 mA, -  
10  $\rightarrow$  +10 V, 4  $\rightarrow$  20 mA Output**

RS Stock No.: 794-8570



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

Use this signal conditioner from our trusted RS PRO range to convert DC current to voltage and voltage to current safely. It has two-way isolation, which makes it highly effective at eliminating ground loop currents and electrical noise.

In addition to being compatible with a range of inputs, the converter supports four output modes – 0 to 10 V, 0 to 20 mA, -10 to +10 V, 4 to 20 mA. Its DIN rail-mounting and screw-type termination make it easy to install. Plus, the conditioner has an operating temperature range of -40°C to +70°C.

## General Specifications

<b>Module Type</b>	Converter
<b>Signal Conditioner Type</b>	Analogue to Analogue
<b>Input Type</b>	Analogue
<b>Input Range</b>	±30V, ±5A, ±50mA
<b>Output Type</b>	Analogue
<b>Output Range</b>	0V to 10V, 0mA to 20mA, -10V to +10V, 4mA to 20 mA
<b>Accuracy</b>	0.1% FSR (23 °C)
<b>Linearity</b>	0.05% FSR (23°C)
<b>Thermal Drift</b>	<150 ppm / K FSR
<b>Response Time</b>	1.5ms to 750ms
<b>Indication</b>	LED Green, Red (error)
<b>Special Features</b>	Status Indicator
<b>Applications</b>	Industrial control and monitoring applications

## Electrical Specifications

<b>Supply Voltage</b>	16.8V to 30V
<b>Power Consumption</b>	1.4W
<b>Termination</b>	Screw
<b>Isolation</b>	3-way

## Mechanical Specifications

<b>Mounting Type</b>	DIN Rail
<b>Dimensions</b>	6.2mm x 90.0mm x 115.5mm
<b>Height</b>	90mm
<b>Width</b>	6.2mm
<b>Depth</b>	115.5mm
<b>Weight</b>	0.050 kg/piece
<b>Installation Enclosure</b>	DIN Rail enclosure
<b>DIN Rail Type</b>	Rail TS 35

## Operation Environment Specifications

<b>Operating Temperature Range</b>	-40°C to 70°C
<b>Minimum Operating Temperature</b>	-40°C
<b>Maximum Operating Temperature</b>	70°C
<b>Storage Temperature</b>	-40 °C to 85 °C

## Protection Category

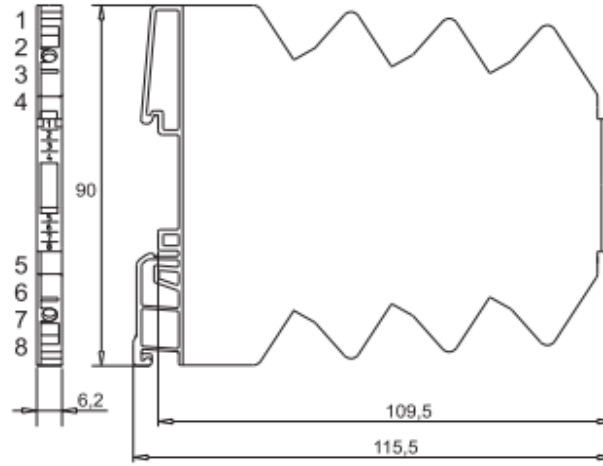
<b>IP Rating</b>	IP20
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## Approvals

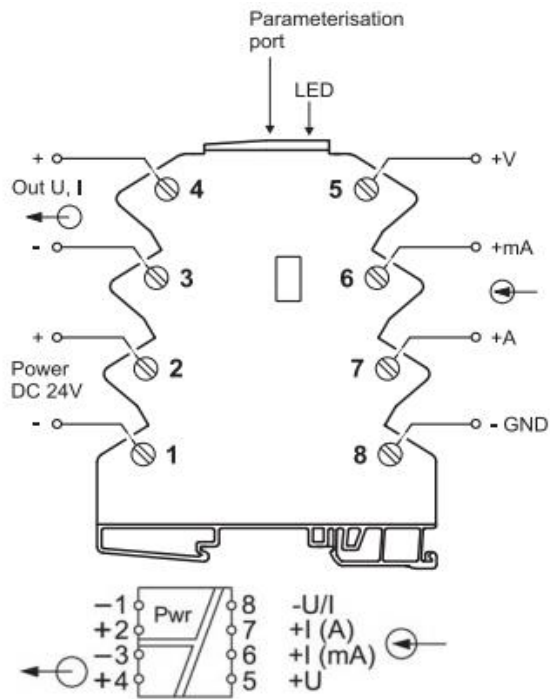
<b>Compliance/Certifications</b>	CSA, GL, UL
<b>Standards Met</b>	cULus, Class I, Div. 2, Groups A, B, C, D T4A



## Dimensions



## PIN assignment



## Range adjustment

S1 ● → Switch On											
Range*	1	2	3	4	5	Range*	1	2	3	4	5
0-50mV	●					0-10mA					●
0-100mV		●				0-20mA	●				●
0-200mV	●	●				0-50mA		●			●
0-500mV			●			4-20mA	●	●			●
0-1V	●	●				0-0.5A			●		●
0-2V		●	●			0-1A	●	●	●		●
0-5V	●	●	●			0-2A		●	●	●	●
0-10V				●		0-5A	●	●	●		●
0-20V	●			●		±1V				●	●
0-30V		●		●		±5V	●			●	●
1-5V	●	●		●		±10V		●		●	●
2-10V			●	●		±5mA	●	●		●	●
0-1mA	●		●	●		±20mA			●	●	●
0-2mA		●	●	●		±2A	●		●	●	●
0-5mA	●	●	●	●		±5A		●	●	●	●

S1 1-8 off: FDT/DTM

\*See instruction leaflet

Output	6	7	8
0-20mA	●		
4-20mA		●	
0-10V	●	●	
±10V			●
2-10V	●		●
0-5V		●	●
1-5V	●	●	●