

## FEATURES

- Micro-compact analogue-to-analogue converter signal conditioner
- Choose from three output ranges of 0 to 10 V, 0 to 20 mA, 4 to 20 mA
- 20 input ranges of 0 to 1 kHz, 0 to 10 kHz, 0 to 100 Hz, 0 to 12 kHz, 0 to 16 kHz, 0 to 2 kHz, 0 to 2.5 kHz, 0 to 20 kHz, 0 to 200 Hz, 0 to 24 kHz, 0 to 250 Hz, 0 to 28.8 kHz, 0 to 3 kHz, 0 to 4 kHz, 0 to 400 Hz, 0 to 5 kHz, 0 to 500 Hz, 0 to 6 kHz, 0 to 750 Hz, 0 to 8 kHz
- Minimum operating temperature of  $-25^{\circ}\text{C}$
- Maximum operating temperature of  $+60^{\circ}\text{C}$
- Screw-type termination for easy use
- DIN rail mountable
- Complies with cULus standards for use in hazardous locations

**RS PRO 0 → 1 kHz, 0 → 10 kHz, 0 → 100 Hz, 0 → 12 kHz, 0 → 16 kHz, 0 → 2 kHz**

RS Stock No.: 794-8524



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

This analogue-output signal conditioner lets you convert frequency signals ranging from 0 to 8 kHz into one of three commonly used analogue signals – 0 V to 10V, 0 mA to 20mA or 4 mA to 20mA. This converter can accept inputs from rotational speed sensors, rotary pulse encoders and proximity switches. Two-way isolation ensures high resolution, stability and accuracy by eliminating noise, crosstalk or unwanted ground loop currents. Part of the trusted RS PRO range, the signal conditioner is stringently tested for quality. It can handle operating temperatures of -25°C to +60°C and is designed to be easy to use in the field as its compact package easily mounts onto a DIN rail.

## General Specifications

<b>Module Type</b>	Converter
<b>Signal Conditioner Type</b>	Frequency to Analogue
<b>Input Type</b>	Frequency
<b>Input Range</b>	0 to 1 kHz, 0 to 10 kHz, 0 to 100 Hz, 0 to 12 kHz, 0 to 16 kHz, 0 to 2 kHz, 0 to 2.5 kHz, 0 to 20 kHz, 0 to 200 Hz, 0 to 24 kHz, 0 to 250 Hz, 0 to 28.8 kHz, 0 to 3 kHz, 0 to 4 kHz, 0 to 400 Hz, 0 to 5 kHz, 0 to 500 Hz, 0 to 6 kHz, 0 to 750 Hz, 0 to 8 kHz
<b>Output Type</b>	Analogue
<b>Output Range</b>	0V to 10V, 0mA to 20 mA, 4mA to 20 mA
<b>Accuracy</b>	0.1 % FSR (23 °C)
<b>Linearity</b>	0.02 %
<b>Thermal Drift</b>	70 ppm / K
<b>Response Time</b>	200ms
<b>Indication</b>	Yellow LED
<b>Over Range Protection</b>	AC/DC 30 V
<b>Special Features</b>	Status Indicator
<b>Applications</b>	Industrial control and monitoring applications

### Electrical Specifications

<b>Supply Voltage</b>	16.8Vdc to 30Vdc, 19.2Vac to 28.8Vac
<b>Termination</b>	Screw
<b>Isolation</b>	3-way

### Mechanical Specifications

<b>Mounting Type</b>	DIN Rail
<b>Dimensions</b>	17.5mm × 79.0mm × 84.0mm
<b>Height</b>	79.0mm
<b>Width</b>	17.5mm
<b>Depth</b>	84.0mm
<b>Weight</b>	0.070 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>	-25°C to 60°C
<b>Minimum Operating Temperature</b>	-25°C
<b>Maximum Operating Temperature</b>	60°C
<b>Storage Temperature</b>	-40 °C to 85 °C

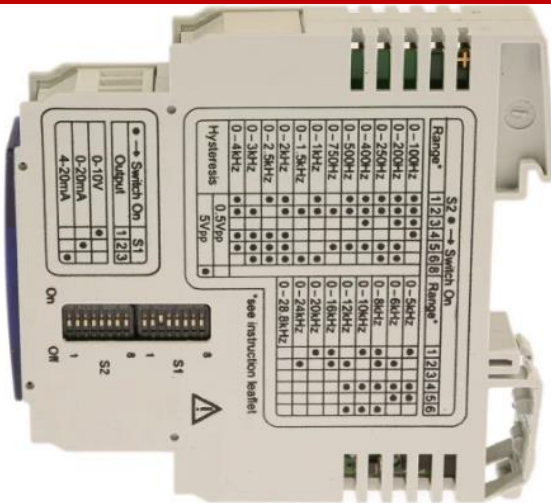
### Protection Category

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

<b>Compliance/Certifications</b>	CE
<b>Standards Met</b>	cULus





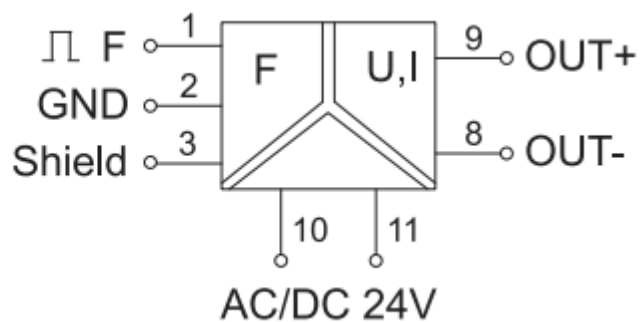
### Range adjustment

S2 ● → Switch On														
Range*	1	2	3	4	5	6	8	Range*	1	2	3	4	5	6
0 – 100Hz	●	●	●	●				0 – 5kHz	●			●	●	
0 – 200Hz	●	●	●	●				0 – 6kHz		●		●	●	
0 – 250Hz	●	●		●	●			0 – 8kHz	●	●		●	●	
0 – 400Hz	●	●	●	●				0 – 10kHz	●			●	●	
0 – 500Hz	●	●		●				0 – 12kHz		●		●	●	
0 – 750Hz	●			●				0 – 16kHz	●	●				
0 – 1kHz	●					●		0 – 20kHz	●					
0 – 1.5kHz	●					●		0 – 24kHz		●				
0 – 2kHz	●					●		0 – 28.8kHz						
0 – 2.5kHz	●					●								
0 – 3kHz	●					●								
0 – 4kHz	●					●								
Hysteresis	0.5Vpp							5Vpp						●

\*see instruction leaflet

● → Switch On			S1
Output	1	2	3
0-10V	●		
0-20mA		●	
4-20mA			●

### PIN assignment



## Dimensions

