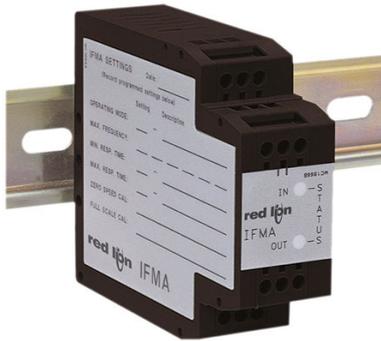


IFMA frequency/analog converter



- converts an input frequency range into an analog signal
- Adjustable frequency range from 0 - 1 Hz to 0 - 25 kHz
- Input and output INFO LED
- four output ranges: 0 V to 5 V, 0 to 10 V, 0 mA to 20 mA, 4 mA to 20 mA
- all sensors can be adjusted via DIP switches
- AC or DC power supply
- 3-fold galvanic isolation supply/input/output
- Simple mounting on C-rail or top-hat rail

<https://www.wachendorff-prozesstechnik.de/en/IFMA>

Description

The IFMA frequency-to-analog converter processes an input frequency of 0 - 1 Hz to 0 - 25 kHz and converts it into an analog signal. The device can be easily programmed and monitored using a 7-pole DIP switch, a BCD rotary switch, a push-button and 2 LEDs. It is simply snapped onto the top hat or C-rail.

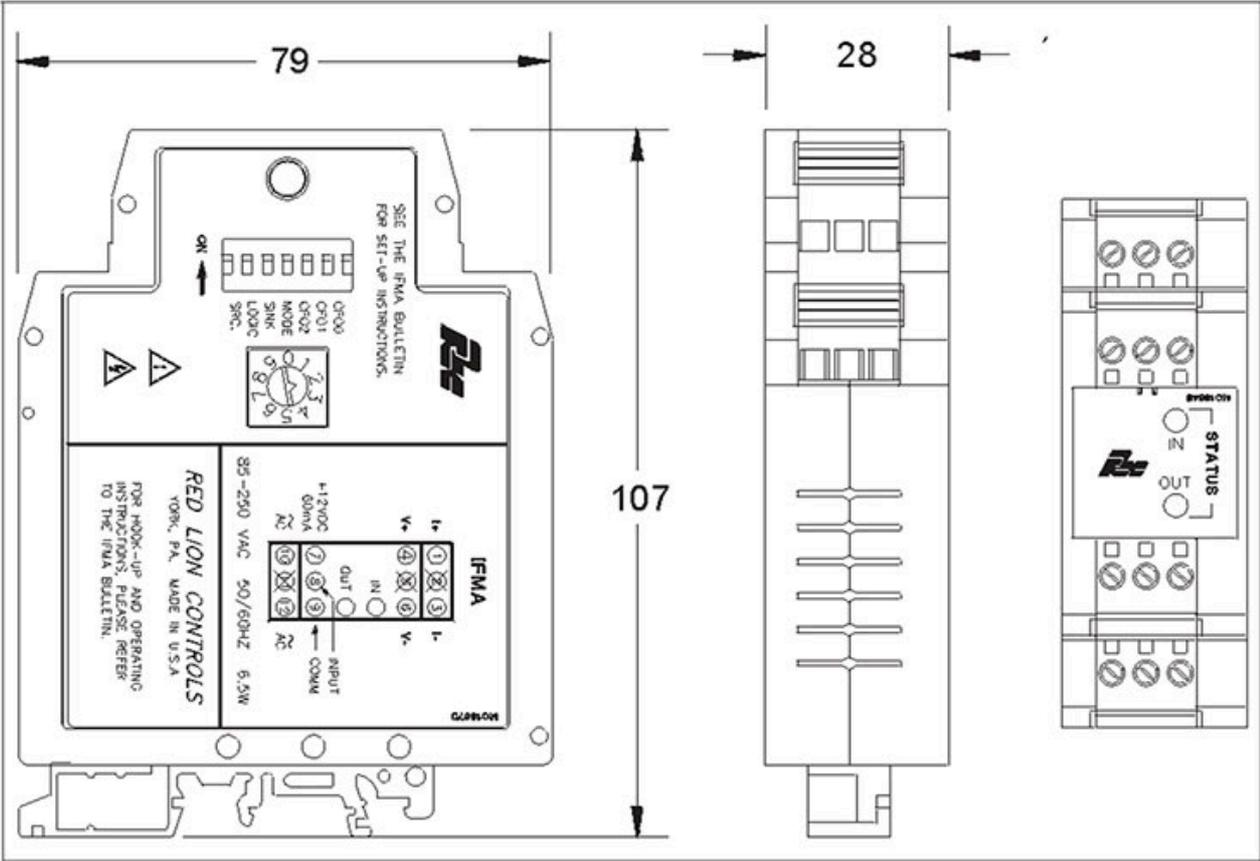
Product details

Inputs:	All commercially available sensors (PNP, NPN, permanent magnet, relay, CMOS or TTL) can be adapted via 3 DIP switches. - PNP: 1 kOhm pull-down resistor, max. 12 mA at 12 volts. - NPN: 3.9 kOhm pull-up resistor, max. 3 mA. Max. Input voltage: +/- 90 V; max. 2.75 mA (DIP switches 1 and 3 set to OFF).
Measuring principle:	Period duration measurement.
Frequency range:	0 Hz - 1 Hz to 0 Hz - 25 kHz adjustable via signal application or input with BCD switch.
Response time:	adjustable from 5 ms + 1 period to 10 s + 1 period.
Output:	Voltage: 0 VDC to 10 VDC or 0 VDC to 5 VDC/10 mA, (min. 1 kOhm), Current: 0 mA to 20 mA or 4 mA to 20 mA. (Load: max. 500 Ohm at 10 VDC).
Display:	Green and red LED The green LED lights up when signals are received. The red LED lights up when the analog output is at the upper end value.
Power supply	9 VDC to 32 VDC or 85 VAC to 250 VAC.
Sensor supply	AC version only IFMA0065: +12 VDC ±25 %, max. 60 mA
Accuracy:	0.1% of the operating range (0.2 % for the range 0 VDC to 5 VDC)
Resolution:	Voltage min. 3.5 mV, current min. 5 µ A.
Temperature:	Operation: 0 °C to +50 °C. Storage: -40 °C to +80 °C.

Connection:	via screw terminals. 1 + Current output 2 N.C. 3 - Current output 4 + Current output 5 N.C. 6 - Voltage output 7 Sensor supply (IFMA0065 only) 8 Input signal 9 Ground input 10 depending on device type: 85 to 250 VAC or + 9 to +32 VDC 11 N.C. 12 depending on device type: 85 to 250 VAC or ground
Housing:	Sturdy plastic housing.
Isolation:	2.2 kV between supply and input and between supply and output. 500 V between input and output for one minute.
Safety:	EN 61010-1
EMC:	EN 50081-2 EN 50082-2 ENV 50140 ENV 50141 EN 61000-4-2 EN 61000-4-4 EN 61000-4-8
Dimensions:	W 28 mm x H 107 mm x D 79 mm.
Weight:	approx. 170 g
Scope of delivery:	Device, operating instructions
Customs tariff number:	8504 40 95
Manufacturer:	Red Lion Controls, USA

Drawings

Dimensions:



Abmessungen (in mm)



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