

IFMR speed monitor



- Switches the output when the frequency is exceeded, undershot or at standstill
- Programmable switching threshold from 0 Hz to 25 kHz
- Over, under or 0 detection
- all sensors can be adjusted via DIP switches
- Hysteresis and offset adjustable
- 85 - 250 VAC or 9 - 32 VDC supply
- 2 info LEDs
- Simple mounting on C-rail or DIN rail

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

Description

The IFMR speed monitor processes an input frequency of 0.1 Hz to 25 kHz and switches a relay when a set frequency is exceeded or undershot or when the device comes to a standstill. The device can be easily programmed and monitored using a 7-pole DIP switch, a BCD rotary switch, a pushbutton and 2 LEDs. It is simply snapped onto the DIN rail or C-rail.

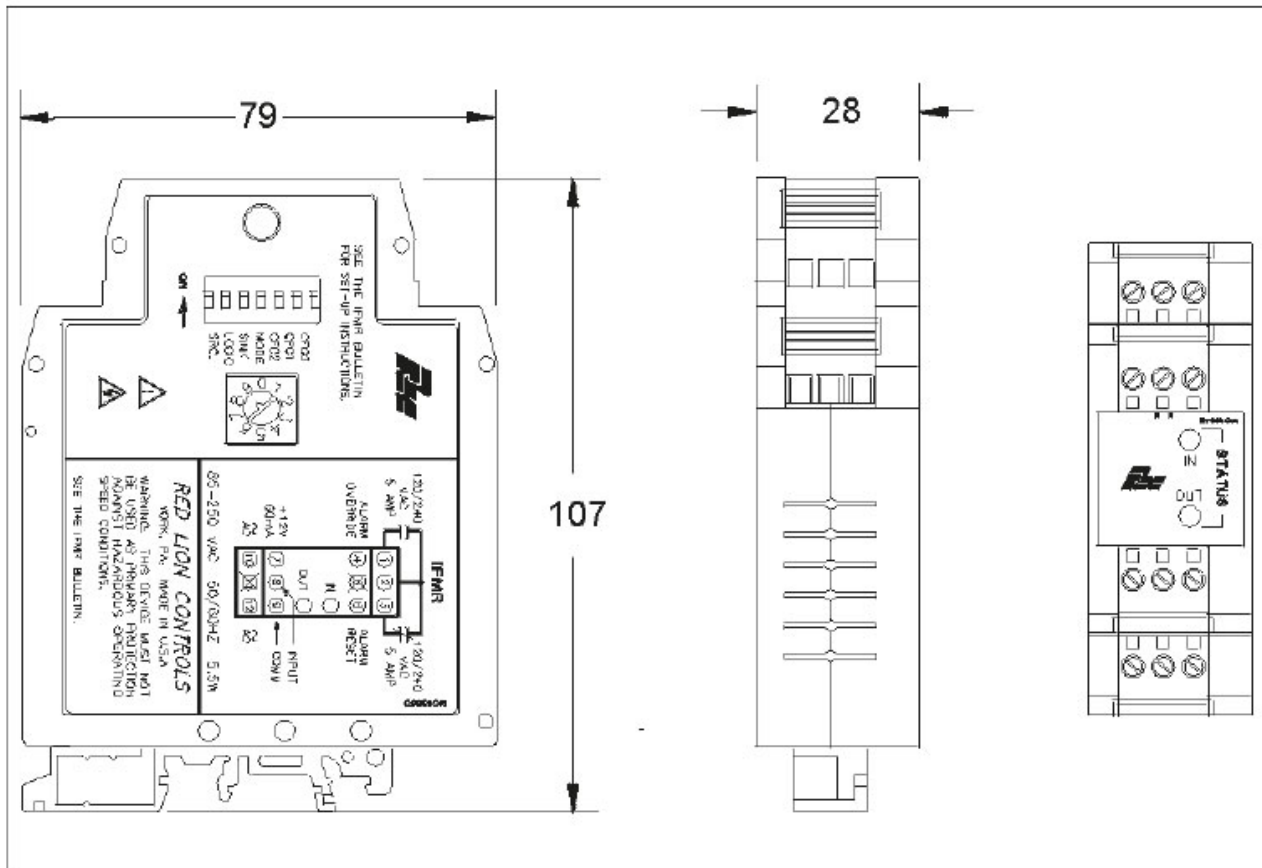
Product details

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. 24 mA at 24 volts. NPN: 3.9 kOhm pull-up resistor, max. 3 mA. low trigger hysteresis: $V_{low} = 0.25$ V; $V_{high} = 0.75$ V. high trigger hysteresis: $V_{low} = 2.5$ V; $V_{high} = 3.0$ V.
Measuring principle:	Period duration measurement / frequency measurement
Frequency range:	0.1 Hz to 25 kHz.
Output	Changeover relay, 5 A at 120/240 VAC or 28 VDC (resistive load), 90 VA at 120 VAC (inductive load). Pick-up delay: 5 ms. Switch-off delay: 3 ms. Life expectancy: 100,000 switching cycles at full load.
Display:	Red LED lights up when the output is active. Green LED lights up when signals are being received.
Power supply:	9 to 32 VDC, 2 W, inrush current: 600 mA for 50 ms or 85 to 250 VAC/ 48 to 62 Hz, 5.5 VA.
Sensor supply:	AC version only (IFMR066): +12 VDC $\pm 25\%$, max. 60 mA
Response time:	programmable from 5 ms to 10 s in 10 steps.
Hysteresis and offset:	0.00%, 0.25%, 0.5%, 1.00%, 2.00%, 5.00%, 10.00%, 20.00%, 25.00%, 33.33% of the switching frequency.
Temperature:	Operation: 0 °C to +50 °C. Storage: -40 °C to +80 °C.
Electromagnetic compatibility CE-compliant:	Interference emission: EN 50 081-2 Interference immunity: EN 50 082-2.

Approvals:	UL approval (Underwriters Laboratories) for the USA and Canada.
Connection:	Via screw terminals.
Housing:	Sturdy plastic housing.
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 (mm):



Abmessungen (in mm)



Wachendorff Prozesstechnik GmbH & Co. KG
Industriestrasse 7 • 65366 Geisenheim
Germany

Phone: +49 (0) 67 22 / 99 65 - 20
E-Mail: wp@wachendorff.de
www.wachendorff-prozesstechnik.de

