EM-M17b F/UI -CONVERTER

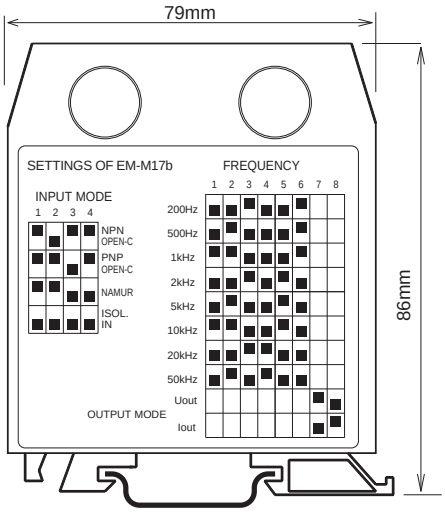
FEATURES:

- **Eight frequency ranges**
- **Isolated input**
- **High linearity**
- **Various input options**
- **Output signal mA or V**
- **Good output filtering**
- **Output short circuit protected**
- **Adjustable zero & gain**
- **Rail mountable**

EM-M17b converts applied frequency to 0...10 V or to 4...20 mA signal. Frequency range is selectable with DIP-switches. Converter can be used with most of the commonly available transducer types. Frequency can be applied also as a pulsed voltage signal. The frequency input can be isolated optically if transducer supply and SW1/1 is left open. Converted signal is filtered using a 2nd order filter so that the ripple of the incoming frequency is efficiently attenuated. The output of EM-M17b is both short circuit and overload protected. Operating voltage range is wide and the supply is protected against incorrect polarity.

TECHNICAL DATA:

Operating voltage	20...32 Vdc
Current consumption	50 mA max.
Linearity error	0.1 % typical
Thermal drift	< 100 ppm/°C
Transducer supply	15 Vdc
	8.5 Vdc (namur)
Input settings	open collector NPN
	open collector PNP
	NAMUR
	pulse (isolated)
Input range	4...25 V
Input impedance	appr. 2 kohm
Frequency ranges	0...200, 500, 1000 Hz
	0...2, 5, 10, 20, 50 kHz
Output filtering	10 Hz (-3 dB)
Output ranges	0...10 V RL > 1 kohm
	4...20 mA RL < 500 ohm
Adjustment ranges	Gain ± 15 %
	Zero - 25 %
Oper. ambient temp.	0...60 °C

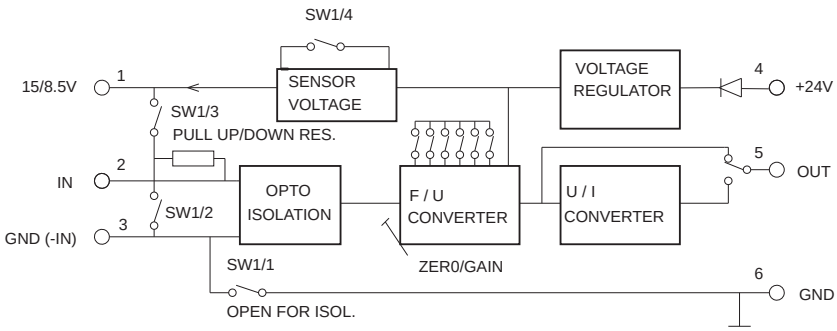


WIDTH OF THE HOUSING IS 25 mm

OPEN COLLECTOR INPUT.
1.+
2.SIGNAL
3.-

NAMUR INPUT.
1.+
2.-

VOLTAGE INPUT (ISOLATED)
2. SIGNAL
3. GND



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