

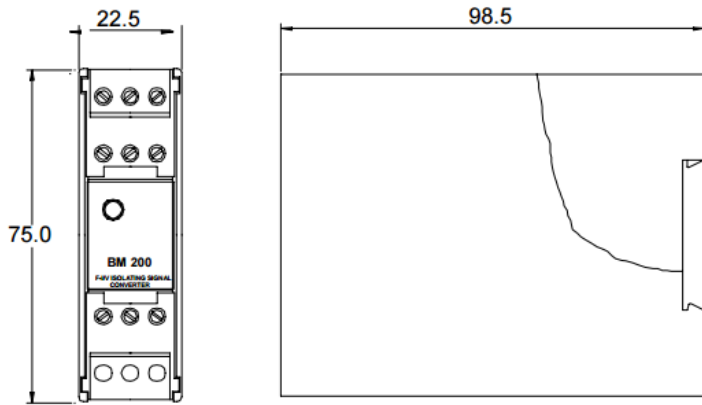
Datasheet

Frequency/ Current Converter 0 to 100Hz

RS Stock number 223-385



MECHANICAL DETAILS



TERMINATION DETAILS

Terminal

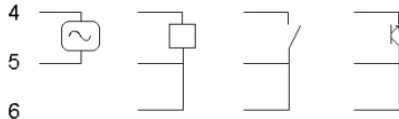
- 1 Power Supply -ve
- 2 Power Supply +ve
- 3 Power Supply Screen
- 4 0 Volt reference
- 5 ~ AC input signal
- 6 1K ohm internal resistor from 8V reference

Terminal

- 7 Active o/p -ve / Passive +ve
- 8 Active o/p +ve
- 9 Passive o/p -ve
- 10 Unused
- 11 Unused
- 12 Unused

Input Variations

Terminal





SPECIFICATIONS

Please note that the following are typical standard ranges. We will manufacture instruments to cater for other ranges too, within certain limitations. Please contact our internal sales department for further clarification.

INPUTS:

Frequency Range

Minimum 0 to 5 Hz
Maximum 0 to 20 KHz

Voltage

Min 15 mV RMS up to 10KHz
Min 25 mV RMS up to 20KHz
Maximum 50 Volts RMS

Sensitivity

For minimum sensitivity wind sensitivity potentiometer fully anti-clockwise

OUTPUTS:

DC Current

0 to 10mA into 10 to 2000 ohms
4 to 20mA into 10 to 1000 ohms
Other ranges as required
Minimum span 1mA
Maximum span 20mA

DC Voltage

The voltage output is derived from passing a mA signal through an internal resistor

0 to 1 Volt DC thru 51 ohms
0 to 10 Volt DC thru 510 ohms
1 to 5 Volt DC thru 240 ohms
Other ranges as required
Minimum span 1 Volt DC
Maximum span 10 Volt DC

Input/Output/Supply Isolation

3 Port Isolation
600V > 20M ohms

SUPPLY:

Power Supplies

8 to 30 Volt DC
with converter to maintain signal to power supply isolation

Power Required

2.0 Watts Maximum

Pilot Light

Red LED indicates Power ON

Transducer Power Supply

8 Volt DC @ 3mA suitable for use with Namur proximity sensors and various other transducers

GENERAL:

Temperature Coefficient

±0.1% of span / Δ 10°C

Linearity Error

Better than 0.1% between 5 and 100% of span

Operating Temperature Range

0 to +45°C

Storage Temperature Range

-20 to +60°C

Operating Humidity Range

0 to 95% RH non-condensing

Storage Humidity Range

0 to 95% RH non-condensing

Weight

100 gms