

Fan Protection Module Model FPM

Application

The Bramco Fan Protection Module has been designed to provide comprehensive protection for underground auxiliary ventilation fans against excessive vibration and high bearing temperatures.

The Fan Module Offers

- Fail safe operation with separate warn and latch relays for vibration and temperature
- A rugged compact vibration sensor with open or shorted protection
- A compact temperature sensor with 3 wire operation for:
 - Four inputs
 - Open or shorted protection
 - LED warning for short
 - Forced trip when shorted or open
 - Easy connection to I.S Zenner Barrier
 - Easy disable of unused inputs
- External reset; contact is required
- Vibration test via an external pushbutton

Specifications

Supply

- 120 or 240vAC control voltage
- Factory set to 120vAC

Material/Housing

- Module - polycarbonate 30% GFR
- Vibration Sensor - heavy duty bronze

Vibration Sensor

- Survival to 1000G
- Sensitive to 0.1G
- Trip Range 0.1-1G field adjustable
- Warn Range 0.1-1G field adjustable
- Delay 10 seconds nominal

Temperature Sensor

- Trip range 60-120°C
- Warn range 10-100% of trip setting
- Delay - no delay > 50mSec

Relay

- Two sets changeover contacts rated at
 - 5A 240vAC resistive
 - Warning relays 0.5A 120vAC resistive
 - Trip Latch Relays 0.5A 120vAC

Base Mounting

- DIN rail or screw down

Dimensions

- Display - 70mm² with 50mm of ribbon cable
- Temp Sensor - M6x25mm S/S Set Screw with 1m cable
- Vibration Sensor - 40mm diameter barrel x 75mm² high with 1m screened cable

Remote Display for vibration and temperature consisting:

- 1 Power on LED
- 2 Temperature trip LED
- 3 Temperature warning
- 4 Vibration and temperature bargraphs
- 5 Vibration trip LED
- 6 Vibration warning

Optional:

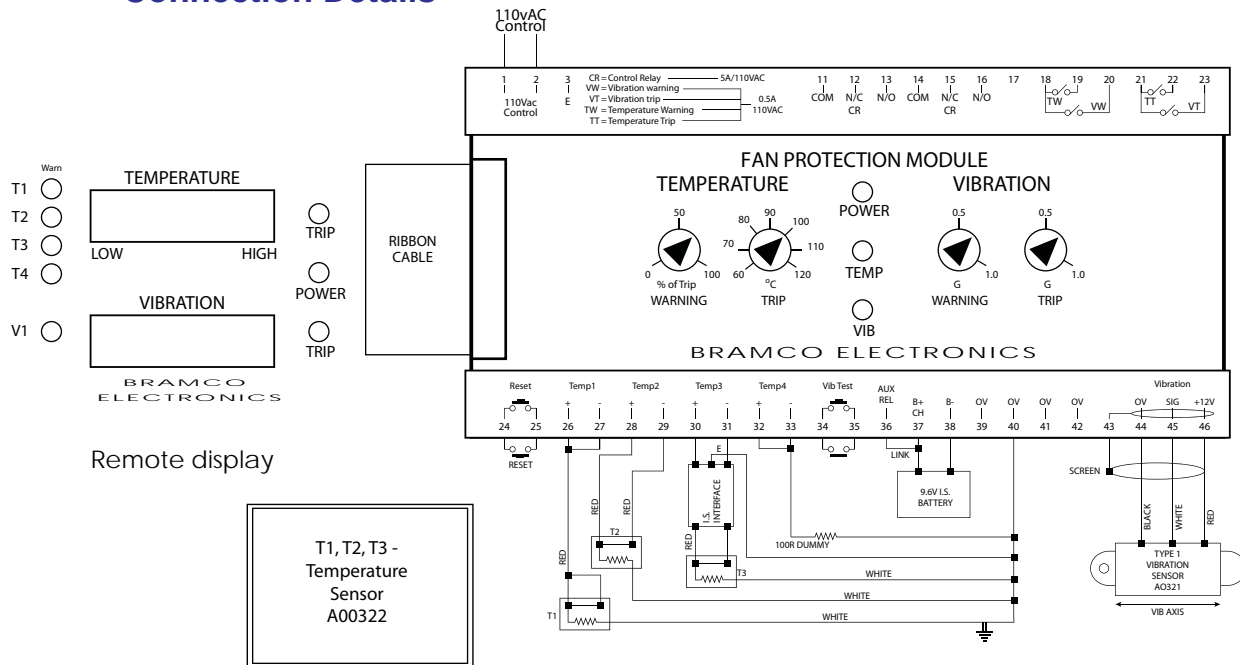
- I.S. Battery for local fault indication and reset.
- PT100 Temperature sensors interchangeable with no calibration.

Ordering Information

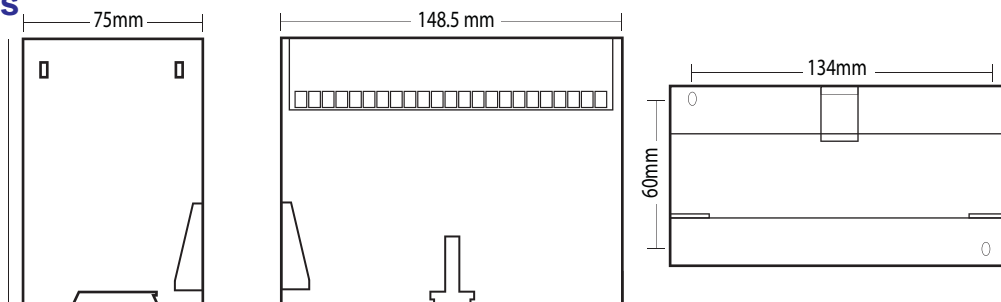
Order Codes

- | | |
|--------|-------------------------------------|
| A00320 | Fan Module including Remote Display |
| A00319 | Fan Module only |
| A00323 | Remote Display |
| A00321 | Vibration Sensor |
| A00378 | Temperature Sensor |
| B00011 | I.S. Battery Backup 9.6v |

Connection Details



Outline and Mounting Hole Dimensions



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