

OVERVIEW

The Fan Status Monitor and Indicator is an instrument used to sense the functional status of all the Fans mounted within the Rack. The Rack can have up to eight DC or AC Fans for exhaust or cooling, mounted on the rear or upper section of the panel. The instrument provides the Operator an instant audio (external Hooter) and visual (LED) feedback regarding the status of all the Fans wired to the instrument.

The instrument comprises of two sub-units : an LED Strip Display and a Control Module. The LED Strip Display must be mounted on the front door of the Rack, while the Control Module must be mounted on a DIN Rail on the side of the panel, in proximity to the Fans. A 2 metre cable (supplied) will link the LED Strip Display to the Control Module. The Control Module, in turn, will be inter-connected to the Fans on the rear of the Rack. The Fans will need to be powered externally from a power source, as specified.

The Control Module is a microcontroller based electronic device which monitors the movement of the Fans in the rack. If a fault is detected in any of the Fans owing to blocked-rotor condition or fan failure, an internal Relay will change-over immediately, providing potential-free contacts on the terminals of the instrument. These potential-free contacts can be wired individually, or in tandem with the contacts of all the Racks within the control room to provide an audible Alarm Hooter, which will caution the operator that one of the Fans within the Rack is faulty or non-functional.

The LED Strip will have eight bi-polar LEDs on the front panel which will indicate the live status of the Fans mounted within the Rack. If the fan is running normally, it's LED will indicate Green colour on the front panel LED strip. Similarly, any fault in the fan causing a rotor block will show the corresponding LED to be Red in colour.

The instrument can monitor up to eight Fans. However, it can also be configured for a smaller number of Fans (less than eight) by a simple DIP switch configuration. The Control Module operates on AC or DC power supply as the case may be, and provides the power to the LED Strip on the front panel. The LED strip can be mounted on the front panel on two projecting Studs, while the Control Module is DIN rail mounted.



DC FAN MONITOR



AC FAN MONITOR



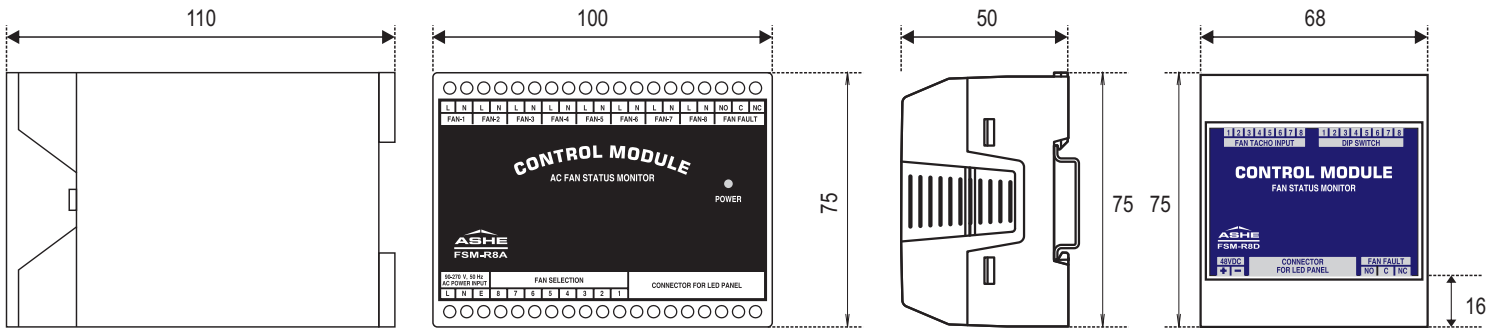
SPECIFICATIONS

Model Number	ASHE FSM-R8D (DC power fans) ASHE FSM-R8A (AC power fans)
Type	Microcontroller based Fan Status Monitor.
No. Of Channels	Eight Channels
Type of Fans	DC :Brushless Fans, approx. 240 CFM, Three-wire. AC : Two-wire Fans.
Sub-components	LED Strip Panel, Control Module and Interconnecting Cable.
Type of LEDs	Bipolar – Green and Red.
Alarm Output	Control Relay potential-free contacts.
Contact Rating	10 Ampere @ 230 VAC.
Fan Selection	DIP switch settings on front panel.
Mounting	The LED Strip Panel will be mounted on the door of Rack. The Control Module will be mounted on DIN Rail within the panel.
Power Supply	DC :48 VDC. AC : 90 to 270 VAC, 50/60 Hz.
Dimensions	DC version : 75 x 68 x 75 mm [H x W x D] AC version : 75 x 100 x 110 mm [H x W x D] LED Strip ; 20 x 95 mm [H x W]
Execution	DIN Rail Mounting.
Enclosure	Industrial grade ABS
Weight	Approximately 0.4 kgs.
Operating Temperature	0 to 55°C

FEATURES

- Simultaneous monitoring of up to eight Fans
- Microcontroller based high speed precision design
- Simple low cost configuration for Racks / Panels
- AC or DC version models for AC/DC Fan status monitoring
- Slim and Compact execution
- Status indication of normal and alarm conditions
- Bicolour LED indication of status of all Fans
- Easy Fan selection option by DIP switches
- Easy and quick installation in panel
- Monitors Fans for failure or Blocked Rotor condition
- Potential free Relay contacts for external hooter connection

DIMENSIONAL DIAGRAM

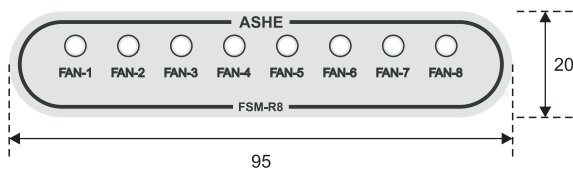


AC FAN MONITOR

DC FAN MONITOR

BICOLOR LED STRIP DISPLAY

Front View



10 pin FRC Connector

Side View



2xM3x20 mm Studs

How To ORDER

FAN STATUS MONITOR

FSM-R8

Configuration and add-on options

1 FAN TYPE

- ▶ 90 to 270 V AC, 50/60 Hz AC Power
- ▶ 48 V DC Power

A
D

2 CONTROL RELAY OUTPUTS

- ▶ No Relay Output
- ▶ One Relay Output

0
1

3 EXECUTION

- ▶ Din Rail Mounting
- ▶ Field Mounting in Weather-proof execution (Polycarbonate enclosure, Ingress protection)

D
W

Our Other Products



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMPERATURE SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES



Designed and Manufactured by :

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