ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

FSM-R8A / FSM-R8D

FSM Series Fan Status Monitor



DC FAN MONITOR



AC FAN MONITOR

RoHS Compliant

MAKE IN INDIA

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 Control Module, 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 along with UNDER and OVER voltage Indication 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 Control Module is DIN rail mounted.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

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 (DIP switches provided for Fan bypass)
Type of Fans	DC : Brushless Fans, approx. 240 CFM, Three-wire. AC : Two-wire Fans (4" upto 150 mA).
Fan Status Indication	LED strip for Fan status with Fan Under and Over Voltage indication.
Type of LEDs	Bipolar – Green and Red. LED for Under Voltage (<190 VAC) LED for Over Voltage (>245 VAC)
Alarm Output	Control Relay potential-free contacts.
Contact Rating	10 Ampere @ 230 VAC.
Fan Selection	DIP switch settings on front panel.
Mounting	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 50 mm [H x W x D] AC version : 75 x 100 x 110 mm [H x W x D]
Execution	DIN Rail Mounting.
Enclosure	Industrial grade ABS
Weight	Approximately 0.4 kgs.
Operating Temperature	0 to 55^{0}C

Features

- Simultaneous monitoring of up to eight Fans
- Fan Under and Over Voltage indication
- 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
- Two-year Performance Warranty
- Potential free Relay contacts for external hooter connection

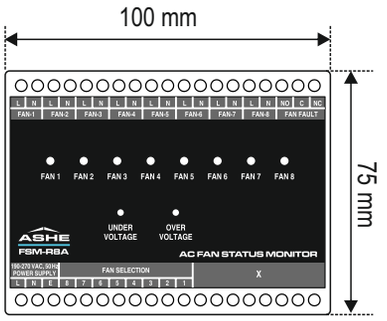
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FSM-R8A AND FSM-R8D

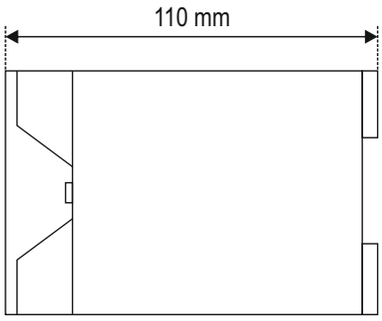
FSM-Series Fan Status Monitor

Dimensional Diagram

AC FAN MONITOR

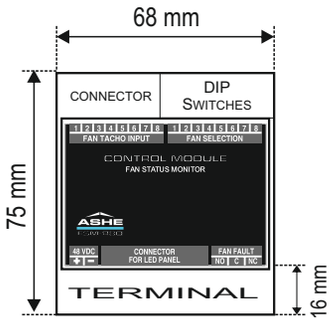


FRONT VIEW

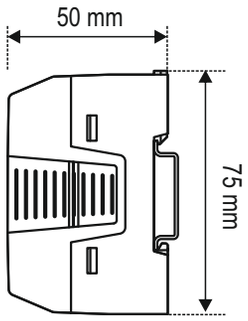


SIDE VIEW

DC FAN MONITOR



FRONT VIEW



SIDE VIEW

How To Order

FAN STATUS MONITOR	**FSM**				
Configuration and add-on options					
1 NUMBER OF FANS					
▸ Four		R4			
▸ Eight		R8			
2 FAN TYPE					
▸ AC Fan 90 to 270 VAC, 50/60 Hz			A		
▸ DC Fan 20 to 70 VDC			D		
3 EXECUTION					
▸ Din Rail Mounting				D	
▸ Field Mounting in Weather-proof execution				W	
4 CONTROL RELAYS					
▸ No Relay Output					0
▸ One Relay Output					1

Our Other Products



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMPERATURE SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES

Designed and Manufactured by :

ASHE CONTROLS PRIVATE LIMITED

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