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FAN SAFETY ALARM CIRCUIT

RIBLB

AHU Fan Safety Alarm Circuit, 24 Vac/dc Power Input, NEMA 1 Housing





60 66 66 66 66 66

CAN BE USED TO ISOLATE FIELD DEVICES FROM EACH OTHER AND

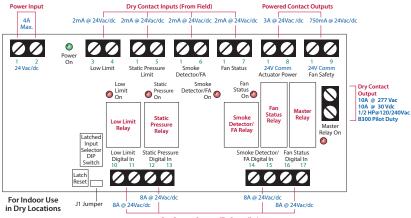
FROM CONTROLLER,

NOT ONLY FAN CIRCUITS

CODE VER. 1.0







Dry Contact Outputs (To Controller

SPECIFICATIONS

Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 250ms

Power Input: 4 Amp Max @ 24 Vac/dc; 50-60 Hz Alarm Status: LED On = Activated

Dimensions: 4.28"H x 7.00"W x 2.00"D

with 0.75" NPT nipple

Housing Detail: See Housing D in housing guide for

dimensions

Origin: Made of US and non-US parts

Track Mount: MT212-6 Mounting Track Provided Approvals: UL Listed, UL864, C-UL, CE, RoHS, CSFM

Housing Rating: UL Listed, NEMA 1, C-UL, CE

Gold Flash: No Override Switch: No

Notes:

• RIBMNLB and RIBLB have 4 Alarm Inputs and 1 Master Alarm.

A master relay will open if any one of the normally-closed (N/C) inputs open. LED status of all outputs and the master relay is provided. The RIBMNLB is provided with mounting track for mounting in user-provided electrical enclosures. The RIBLB is enclosed in a NEMA 1, 4"x 7" enclosure with a clear lid to allow viewing of the status LEDs. The master relay has two general-purpose outputs: one 24 V output terminal and one dry contact output rated up to 10 Amp @ 277 Vac. Fan status contact controls actuator power. The most common application is an Air Handling Unit (AHU) fan-safety-shutdown where the master relay is used to shutdown the fan. Contact closure outputs are provided so that a DDC controller can determine the cause of a shutdown.

Model RIBMNLB combines all the relay logic to facilitate fan status, fan safety control, and damper actuator control. It is intended for use in a circuit that will control fan start/stop and fan safety shut-down circuit monitors three critical inputs:

- Low-limit freeze protection (to stop fan and remove power from damper actuator)
- Static pressure (to monitor for hi/low pressure condition)
- Smoke detector / fire alarm

Master relay opens to shut down AHU when any Normally Closed input opens.

Integral DIP switch allows any input to be latched. Input can be reset with push button or by cycling unit power.

Installing J1 jumper allows Fan Status input to control Master Relay, like the other 3 inputs.

