

RELAY MODULE

DESCRIPTION

The Relay Module, P/N 55-043 & 55-048, provides two sets of Form “C” dry relay contacts that switch together (DPDT). These contacts can initiate emergency control functions (i.e., damper closure, fan control, door holder interface, elevator recall, etc.). There is also an input capable of monitoring a dry set of contacts for open or closed conditions. The module has a multi-color LED that will illuminate a unique color for instant status indication (Green for normal operation, Red for device active, and Yellow for device trouble). The isolator version of the module, P/N 55-048, provides complete short-circuit isolation for installations requiring NFPA, Class X wiring.

The module is compatible with Fike’s CyberCat® and Cheetah® Xi intelligent control panels. Its operating parameters are configured using the panel’s programming software and stored within the module’s non-volatile RAM. This onboard intelligence allows each module to communicate its status directly to other devices connected to the Signaling Line Circuit (SLC). This peer-to-peer digital protocol results in less information that must be sent between the module and the host control panel, resulting in faster, more reliable communication.

SPECIFICATIONS

| | |
|---|---|
| Normal Operating Voltage: | 15 to 30 VDC |
| Standby Current: | 580 µA max. average (continuous broadcasts) |
| Alarm Current: | 2 mA (red LED on) |
| Short Circuit Current, Dry Control Input: | 30 mA max. average (5VDC) |
| Maximum Resistance, Dry Contact Input: | 100Ω |
| Temperature Range: | 32 to 120°F (0 to 49°C) |
| Humidity: | 10 to 93% RH Non-condensing |
| Dimensions: | 4.675” H x 4.275” W x 1.4” D (119 mm H x 109 mm W x 36 mm D) |
| Mounting: | 4” square electrical box with 2 1/8” minimum depth. For surface mounting, use a 20-1347 surface mount box. |



APPROVALS:

- UL
- FM
- City of New York
- CSFM

Refer to the agency web site for details.



ORDERING INFORMATION

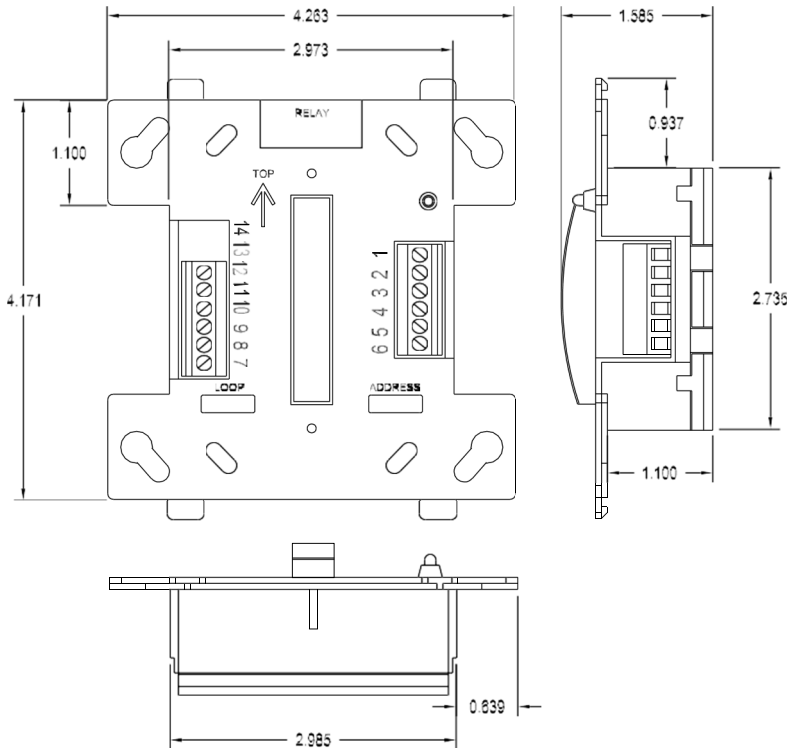
| Fike P/N | Mfg. P/N | Description |
|--------------------|-----------------|----------------------------|
| 55-043 | EM-1R | Relay Module, Non-isolator |
| 55-048 | EM-1RI | Relay Module, Isolator |
| Accessories | | |
| CB500 | CB500 | Control Module Barrier |
| 20-1347 | SMB500 | Surface Mount Box |
| 55-051 | EA-CT | IR Tool |
| FP-WHITE-ECL-BP | FP-WHITE-ECL-BP | Cover Plate |



RELAY CONTACT RATING

| Current Rating | Maximum Voltage | Load Description | Application |
|----------------|-----------------|------------------|-------------|
| 2A | 25 VAC | PF=0.35 | Non-Coded |
| 3A | 30 VDC | Resistive | Non-coded |
| 2A | 30 VDC | Resistive | Coded |
| 0.46A | 30 VDC | (L/R=20ms) | Non-coded |
| 0.7A | 70.7 VAC | PF=0.35 | Non-Coded |
| 0.9A | 125 VDC | Resistive | Non-Coded |
| 0.5A | 125 VAC | PF=0.75 | Non-Coded |
| 0.3A | 125 VAC | PF=0.35 | Non-Coded |

MODULE DIMENSIONS



TERMINAL DEFINITIONS

| | | | |
|----|-----------------------|-----|--------------------|
| T1 | (+) SLC in/out | T7 | Normally Closed #1 |
| T2 | (-) SLC in/out | T8 | Common #1 |
| T3 | (+) SLC in/out | T9 | Normally Open #1 |
| T4 | (-) SLC in/out | T10 | Normally Closed #2 |
| T5 | (+) Dry Contact Input | T11 | Common #2 |
| T6 | (-) Dry Contact Input | T12 | Normally Open #2 |