

Architect and Engineering Specification

FEATURES

- Provides standard Micromist® water mist cycle sequences
- Interfaces with existing approved releasing control panel
- Operates from one of two different inputs
- Supervised release output circuit
- Supervised contact closure disable input
- Status LED's

DESCRIPTION

The Micromist Interface Module, Fike P/N 10-2340, is designed to allow an existing control panel (listed or approved for releasing service) to connect with a Fike Micromist Water Mist Extinguishing System.

The Interface Module has built-in timing sequences providing on/off cycle times, which are in accordance with the Micromist Extinguishing Systems Factory Mutual approval. In addition to cycling the water supply, the Interface Module also offers the option of utilizing a continuous operation for special applications.

OPERATION

Releasing Circuits

The Micromist Interface Module is designed to operate from one of two different input signals of a listed or approved control panel:

1. **Contact Closure Releasing Input:** A normally open alarm contact closure from a listed or approved control panel will cause the module to enter the release state. Once the contacts



close, it will initiate the solenoid cycling sequence that controls the Micromist containers.

This initiating circuit supports Class A/B (open ended/closed loop) wiring and will supervise the cabling between the module and the control panel for Open, Normal, Activation and Short circuit conditions.

2. **Polarity Reversal Releasing Input:** A polarity reversal circuit input from a releasing circuit of a listed or approved releasing control panel will cause the module to enter the release state. Once the 24V reversal occurs, the module will initiate the solenoid cycling sequence that control the Micromist containers.

This initiating circuit will support Class B (closed loop) wiring. The listed or approved releasing control panel will provide circuit supervision.

Solenoid Output Circuit

A solenoid output circuit will cycle the two 12 VDC solenoids in series, or two 24 VDC solenoids in parallel. Energizing and de-energizing the solenoids will control the flow of water into the hazard.

Disabling Circuit

The Micromist Interface Module is equipped with a contact closure disable input circuit. This circuit will monitor the normally open contacts of a keyed, selector switch. Once the contacts close, the solenoid output will become disabled, stopping Micromist operation. The Micromist system will resume operation once the disable contacts return to their normally open state.

The contact closure disable input circuit can support both Class A/B (open ended/closed loop) wiring and will supervise the cabling between the module and the disable switch for Open, Normal, Activation and Short circuit conditions.

Dry Contact Output

The module is equipped with a single Form C dry contact output for annunciation of a trouble condition on the Micromist Interface Module. Contact supervision is provided by the FACP.

HAZARD SELECTION

Depending on the application (Machinery Space or Turbine Generator), particular cycle on/off times are required in accordance with the Micromist Factory Mutual approval. The cycle on/off times are configured on the module via dipswitch settings. Circuit supervision is provided between the module and the solenoids for Open, Normal, and Short Circuit conditions. Refer to Manual P/N 06-218 for dipswitch configurations.

INSTALLATION

The Micromist Interface Module is housed in a potted polycase (4" x 3" x 1.5") (10.2 x 7.62 x 3.81 cm) enclosure. This housing can be mounted in an optional metal enclosure (10" x 6" x 2.5") (25.4 x 15.24 x 6.35 cm) with cover, P/N 10-2137.

SPECIFICATIONS

Dimensions: 4" x 3" x 1.5"
10.2 x 7.62 x 3.81 cm

Weight: 1 lb. (453.6g)

Mounting Holes: 2 at 0.18" on 3.50" center
2 at 0.45 cm on 8.89 cm center

Temperature Range: 32 – 120 degrees F
0 – 49 degrees C

Supply Voltage: 20 - 30 VDC

Power Consumption:

Using 12 VDC 10-Watt Solenoids
(North America)

Normal Standby: 0.080 amp
Alarm: 1.00 amp

Using 24 VDC 8-Watt Solenoids (Europe)

Normal Standby: 0.080 amp
Alarm: 0.800 amp

Part Number 10-2340 is manufactured in conformance with the EC Directive for electronic equipment. The following standards are applicable:

EN50081-2
ENV50140
ENV50204
EN61000-4-2
EN61000-4-4
ENV50141



This product is identified with the CE mark.