

## TR-MMO-6SF

### Multi-Module Output, 6 Signal Output Module

#### GENERAL

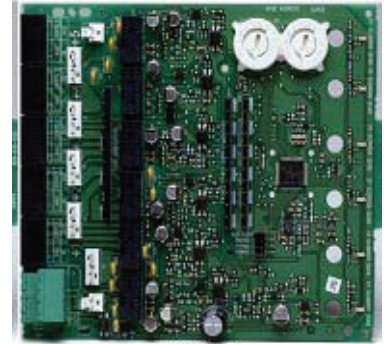
The TRIGA GEN2 Series, multi-mod six signal output module (TR-MMO-6SF) provides six, Style Y (Class B) or three Style Z (Class A) supervised control circuits suitable for a wide range of signaling applications. Each supervised circuit may be used as any of the following:

- Audio speaker circuit
- Notification appliance circuit
- Supervised control output

The GEN2 Series use a communication protocol that substantially increases the speed of communication between the sensors and certain TRIGA analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and concentrates on the single device. The net effect is response speed up to five times greater than earlier designs.

The TR-MMO-6SF connects to the signaling line circuits (SLC) of the TRIGA analog addressable series fire alarm control panels. Each of the TR-MMO-6SF supervised control circuits occupies its own address on the system's SLC that allows each to be fully programmable in its control-by-event sequence of operation.

The address of the first supervised output circuit is set with a pair of rotary dials. Each remaining circuit is automatically assigned to its own subsequent address. The TR-MMO-6SF module includes an address disable jumper matrix that allows one, two, or three addresses to be turned off to free these addresses for other purposes. An additional jumper setting selects either Style Y or Style Z circuit configurations. A wide range of configurations are possible including 30 VDC, audio input at 25 or 70.7 V<sub>RMS</sub>, 125 VAC, etc. More than one circuit can share a power supply if the current capacity does not exceed the power supply's output.



TR-MMO-6SF

## FEATURES & BENEFITS

- Each TR-MMO-6SF module provides six Style Y (Class B) or three Style Z (Class A) individually addressable, individually programmable notification appliance or supervised output circuits
- Includes removable wiring terminal blocks allow ease of installation and servicing
- Terminal blocks can accommodate 12 to 18 AWG wire
- Contains external power monitoring
- Provides a flexible jumper configuration feature that allows up to three output circuit addresses to be disabled
- Accommodates multiple external power inputs
- Ideal for retrofit applications
- Short circuit protection of external power supplies
- Sources providing AC, DC, or audio inputs
- Designed for use with TRIGA analog addressable series fire alarm control panels
- Displays individual LED indicators\*
- Offers two mounting cabinets available for two (MBB-2 cabinet) to six (MBB-6 cabinet) units



Note: Specifications are subject to change without notice.

## GENERAL

Each output circuit on the TR-MMO-6SF monitors its own connection to its power supply and will indicate a fault condition by address if the power source should fail. The TR-MMO-6SF is also provided with short circuit monitoring to protect the external power source from short circuits on the notification appliance circuit wiring. This feature can be disabled per individual circuit if the application requires.

Note: Power supply monitoring must also be disabled in such cases.

Each circuit has its own status LED that flashes to indicate proper polling and lights steadily when the output has been activated. Two multi-mod series units can be mounted in one **MBB-2** cabinet. Additional mounting options include the **MCH-6** chassis that can accommodate six multi-mod series modules. The **MCH-6** chassis can be installed in a custom cabinet or can be mounted in the **MBB-6** cabinet allowing up to six multi-mod series modules in one cabinet. The TR-MMO-6SF is ideal for applications where centralized location of circuits is required. As many as thirty-six supervised output circuits may be located in a cabinet that is only 12.63" H x 24" W x 6.5" D in dimension saving valuable wall space in mechanical rooms and electrical closets and reducing cost of installation.

## Technical Specifications

### SPECIFICATIONS

Operating Voltage: 15-32 VDC

Stand-by Current: 2.65 mA

Alarm Current: 35 mA

Maximum IDC Wire Resistance: 25 Ohms

Temperature Range: 32° F to 120° F (0° to 49° C)

Humidity: 10 to 93% (non-condensing)

Dimensions:

**MCH-6:** 6-Unit mounting chassis

12.25" H x 9.25" W x 3.32" D (31.1 x 23.5 x 8.4 cm)

**MBB-6:** 6.8" H x 5.8" W x 1.25" D (17.3 x 14.7 x 3.2 cm)

**MBB-2:** 12.63" H x 24" W x 6.5" D (32 x 60.1 x 16.5 cm)

### EXTERNAL SUPPLY VOLTAGE

DC Voltage: 18-28 Volts,

Class 2 Power-Limited

Ripple Voltage: 0.1 Volts rms maximum

Current: 90 mA per module

### STANDARDS

The GEN2 Series TR-MMO-6SF is designed to comply with the following standards:

UL Standard: UL 864.

### ORDERING INFORMATION

TR-MMO-6SF: Multi-Module Output, 6 Signal Output Module

**MBB-2:** Backbox, 2 unit

**MBB-6:** Backbox, 6 unit, requires **MCH-6**

### AGENCY LISTINGS AND APPROVALS

For exact certification listings for each model, please reference the respective agency website.

UL listed

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