

FEATURES

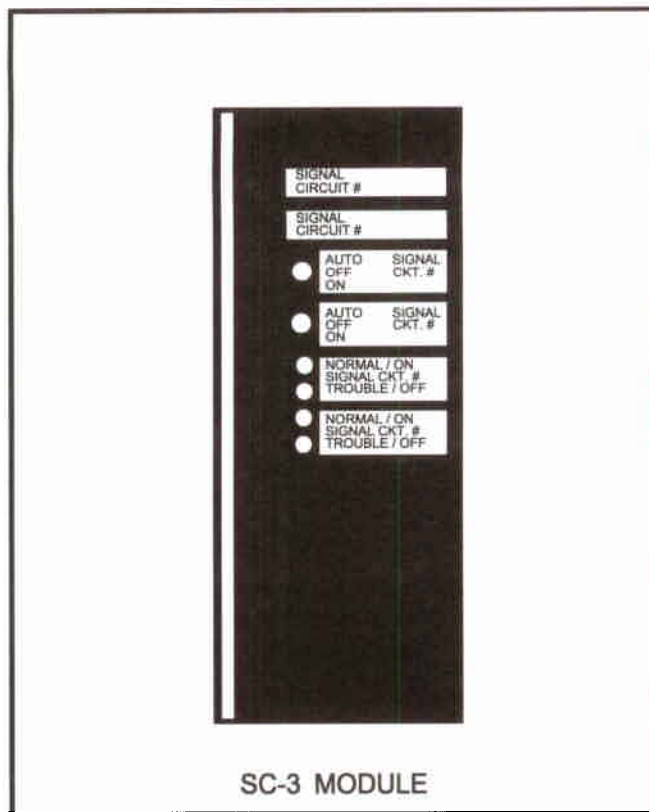
- UL listed, File #405, Standard #864 under the MPC-2000 system control unit
- CSFM, listed #7165-0065:123
- BSA, approved, calendar #524-77-SA
- Dual supervised signal circuits Class "B" (Style "Y")
- Individually software programmable circuits
- On/Off/Automatic switch per signal circuit
- Normal/On/Trouble/Off indications per signal drive circuit
- Custom labeling area per signal circuit on module front
- Completely power limited
- Built-in transient protection
- Automatic disconnect circuitry upon short circuit detection
- Software selectable individual time delay on/automatic cutoff
- Capacity up 2.5 Amp. @ 24VDC per module
- IBEW/USA Quality crafted



GENERAL

The SC-3 dual signal circuit module provides for the supervision and operation of two "2-wire"/Class "B" (Style "Y") field signal circuits. These two circuits are commonly powered but individually programmable. The SC-3 module supervises all circuits individually for field wiring faults such as open circuits, short circuits, and positive/negative ground conditions. Each circuit is capable of powering compatible listed 24VDC polarized parallel signaling devices. Each signal circuit also provides access to software enabled timing formats. Each circuit has an associated on/off/automatic selector switch as well as a green "normal" LED, a red "on" LED and a yellow "trouble/off" LED indicator on the module front. A custom labeling area is provided adjacent to the switches and indicators for proper identification of field circuits. All signal circuit wiring is power limited thus eliminating the necessity of externally fusing the wiring and allowing for the use of power limited cabling. Field wiring connections are made via pressure type screw terminals to insure positive connections.

The SC-3 module includes a supervisory network to detect open circuits, grounded wiring faults and shorted circuits. In the event that a shorted circuit is detected, the module will automatically disconnect the effected circuit so that system power supply shutdown will not occur thus rendering any other circuits non-operable. Detection of any fault condition will light the appropriate yellow circuit "trouble" LED



as well as activate the MPC-2000's system trouble circuitry and system status display(s). In the activated condition (automatically thru system alarm software or manually via "on" switch position) the appropriate signal circuit(s) will reverse polarity and operate all associated signals. The appropriate operated signal circuit's green "normal" LED will change to the red "on" status indication. If the circuit is then forced off via the "off" switch position, the LED will again return to the green "normal" status indication. The circuit's yellow "off" LED will also illuminate thus indicating the "off-normal" by-passed condition.

DESCRIPTION

The SC-3 dual signal circuit module serves as the focal point of supervision and alarm activation for two independent signal circuits. All field mounted signals are connected to the SC-3 module(s) via monitored "hard wired" loops. The module constantly checks this wiring for opens, shorts and positive/negative ground fault conditions and reports these status' as trouble conditions. If a short circuit condition is found by the automatic sensing circuitry the effected circuit will be automatically removed from the system so that other circuits will not be effected. The SC-3 module will operate on an alarm condition automatically as directed by the system programming stored in the MPC-2000's CU-2 control module, or manually by the "on" position of the associated circuit control switch. In addition, the appropriate signal circuit may be cutoff or by-passed via the "off" position of the associated circuit control switch. Signal circuit status indications are provided for "normal" (standby), "on" (activated), "off" (by-passed) and "trouble" (open, short, ground) conditions by circuit.

APPLICATION

- 1.) The SC-3 module is a "non-powered" signal circuit hence signal operating power must be bussed into it from an AP-4 or AP-5 power supply module. This format allows for extended capacity (up to 2.5 Amp. @ 24VDC) and maximum flexibility in system power supply assignments.
- 2.) Shielded wire is not required on this system and in most cases will cause more problems than it prevents. Faraday alarm equipment is designed with built-in transient suppression networks thus negating the requirements of shielded cabling.
- 3.) Never run low voltage signal wiring in the same conduit with high voltage power wiring. Most electrical codes will not permit this as it can cause problems with any low voltage system.
- 4.) In addition to the basic features described in this data sheet, many other signal circuit features and functions are available through the use of system software. Consult the MPC-2000 owner's/programmer's manual for additional programming options.

TECHNICAL

Power Provision:

Combined each module: Up to 2.5 Amp. @ 24VDC Max, power limited and non-resettable. Must be sourced from an AP-4 or AP-5 power supply module.

Power Consumption:

Alarm-.085 Amp.
Standby - .025 Amp.

Space Provision:

None

Space Consumption:

(1) Module space

Channel Provision:

None

Channel Consumption:

(2) Circuits on the output (indicating) channel

Audio Rating:

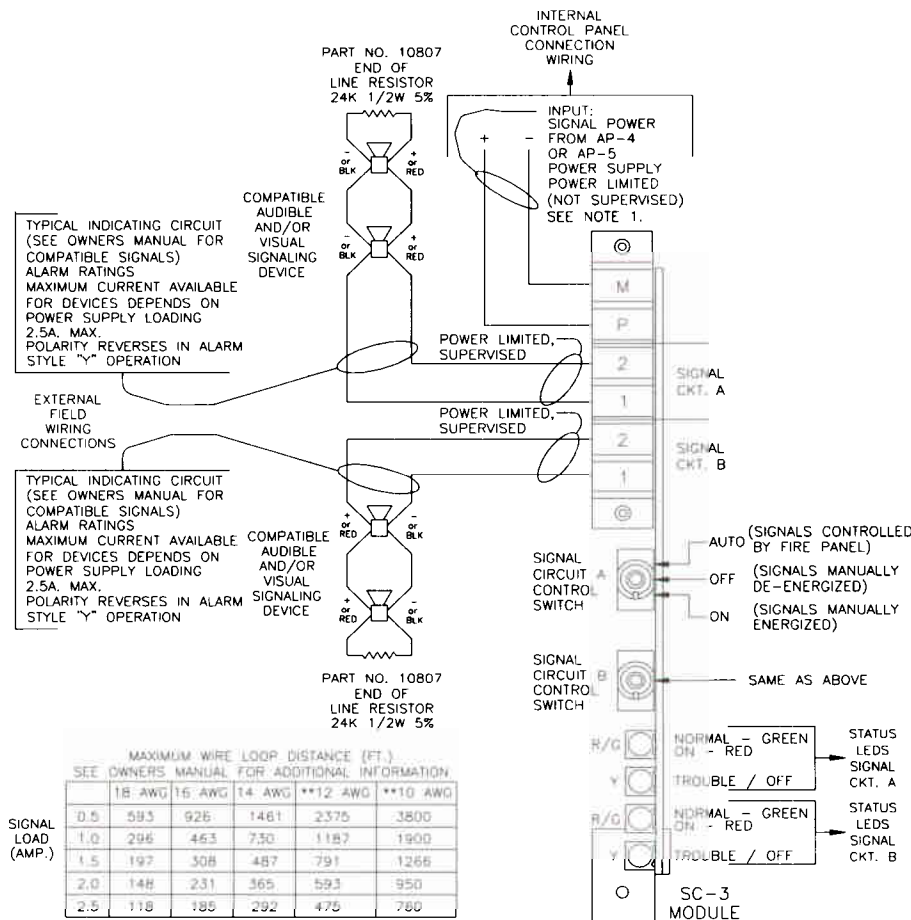
25VAC @ 62 Watt Max.
Twisted pair cable (per ckt.)

Speaker Input:

From amplifier supervisory board

ORDERING

Model #	Part #	Description
SC-3	401315	Dual signal circuit module



WARNING - The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information, are provided with the product and are available from the Manufacturer. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact the Manufacturer.