

Fire Watch

Fire Watch - Mini Monitor Module



Product Overview

Product	Mini Monitor Module
Part No.	FW55000-765
Digital Communication	FW Protocol

Approvals



Product Information

The FW Mini Monitor Module is a loop-powered device that provides a monitored input circuit for connection to switches. The module is supplied in a small housing designed to fit into an electrical box or to be DIN-rail mounted.

The Mini Monitor Module has an optional priority interrupt function providing a faster response to input activations.

- Three color LEDs
- Selectable Interrupt / Non-Interrupt status

Technical Data

All specifications are subject to change without notice. Specifications are typical at 24 VDC, 73°F, and 50% RH unless otherwise stated.

Product Operating Temperature: 32 to 100°F

Humidity: 10 to 95% RH, no condensation or icing

Standards/Approvals: UL and FM

Dimensions: 1.53" W x 1.53" H x 0.7" D

Weight: 1.05 oz. (30 g)

Housing material: White flame-resistant polycarbonate / terminals nickel-plated stainless steel

Signaling Line Circuit (SLC): Supervised, Power Limited

Supply Voltage: 17 to 28 VDC

Current Consumption @ 24 VDC:

Supervisory Current: 200 μ A

Alarm Operated Current, LED ON: 3.4 mA + standby

Maximum Alarm Current with Remote LED: 6.2 mA + standby

Operation

The mini-module uses FW protocol and provides 'normal', 'pre-alarm', and 'alarm' status to the fire alarm control panel. These states are derived from switched resistive values. The maximum line resistance is 50 Ω and it requires a 20 K Ω end of line resistor.

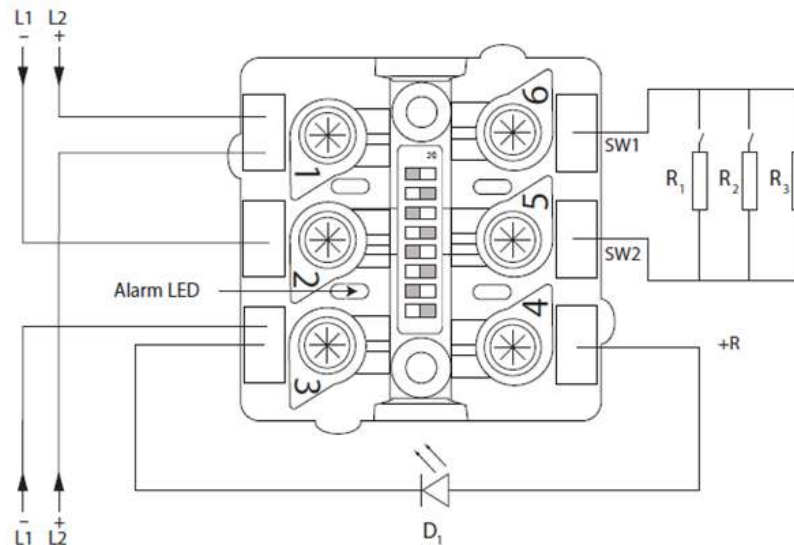
The module has three status LEDs; green indicates normal polling, yellow indicates a fault condition, and red indicates an alarm and is controlled by the fire alarm panel. The module can operate a remote LED located no more than 15 feet from the module.



FIRE WATCH

Safety is our World

Mini Monitor Module - wiring diagram



Key to resistors

R1 - Alarm	1 k Ω
R2 - Pre-alarm	10 k Ω
R3 - End-of-Line	20 k Ω
D1 - Optional remote LED	Max 3 m cable length

Analog values related to circuit status and zone load

Status	Analogue value	Mini Monitor Module
Short-circuit fault	4	<0.1 k Ω
Indeterminate	4 or 64	0.1 k Ω to 0.2 k Ω
Alarm	64	0.2 k Ω to 2 k Ω (1 k Ω)*
Indeterminate	45 -51 or 64	2 k Ω - 3 k Ω
Pre-alarm	45 - 51	3 k Ω - 11 k Ω (10 k Ω)
Indeterminate	16 or 45 - 51	11 k Ω - 15 k Ω
Normal	16	15 k Ω - 25 k Ω (20 k Ω)*
Indeterminate	4 or 16	25 k Ω - 30 k Ω
Open circuit fault	4	>30 K Ω

Note: * The values shown in brackets are recommended values, recommended value resistors supplied with the unit.