

# RPT-E3

## Network Repeater

The RPT-E3 is the network communication circuit used with the E3 Series® System.

### GENERAL

The ARCNET Repeater Module (RPT-E3) is an optional component of the E3 Series® and S3 Series fire alarm control panels. It allows the following remote E3 Series and S3 Series sub-assemblies to connect to the Broadband network from remote locations:

- ILI-MB-E3/ILI95-E3 Series
- S3 Series, SLP (Smart Loop Panel-Main Board)
- ANX-SR/ANX-MR-UTP/ANX-MR-FO
- NGA

The RPT-E3 is a standard sub-assembly with network connections using unshielded, twisted-pair, copper wire. The following optional fiber-optic network connections using add-on modules are available.

- FML-E3 multi-mode fiber module (optional)
- FSL-E3 single-mode fiber module (optional)

In addition, you can use the RPT-E3 to connect remotely-mounted NGA modules to the network.

### FEATURES AND BENEFITS

- Listed under UL® Standard 864, 10th Edition
- Offers the 625K baud ARCNET Repeater
- Provides the capability for networked E3 Series and S3 Series sub-assemblies to connect in Class B or Class X configurations
- Connects to the network via the standard unshielded, twisted-pair copper wire
- Includes add-on fiber-optic modules that allow the network connection through single or multi-mode fiber-optic cables
- Use the RPT-E3 to connect remotely-mounted NGA modules to the network

### INSTALLATION

The RPT-E3 is adaptable for an installation in the standard E3 Series and S3 Series cabinets. Typically, the RPT-E3 module is mounted on standoffs on the top of the right side of the ILI-MB-E3/ILI95-MB-E3/ANX modules and SLP motherboard.

For instructions on the installation of the RPT-E3, refer to the following documents:

- E3 Series® UL Listing Document, P/N: LS10080-051GF-E
- S3 Series UL Listing Document, P/N:LS10005-051GF-E
- RPT-E3-UTP Installation Instructions, P/N: 9000-0580
- FML-E3/FSL-E3 Installation Instructions, P/N:LS10046-000GF-E

### ORDERING INFORMATION

**RPT-E3-UTP:** Network Repeater, unshielded, twisted-pair

**FML-E3:** Multi-mode fiber-optic module for RPT-E3-UTP (one channel)

**FSL-E3:** Single-mode fiber-optic module for RPT-E3-UTP (one channel)



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# RPT-E3 TECHNICAL SPECIFICATIONS

## SYSTEM

**Operating Voltage:** 24 VDC FWR

**Operating Current:** 0.016 amp

**Alarm Current:** 0.017 amp

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

**Relative Humidity:** 0 to 93%, non-condensing at 90° F (32° C)

### Wiring Specifications:

**Copper Wire:** 16 to 18 AWG twisted-pair, unshielded.

Up to 3,000 ft. (914.4 m) between each node.

**Fiber-Optic Cable (FML-E3 only):** Up to 200 microns optimized for 62.5/125 microns.

Up to 8 dB loss between nodes.

**Fiber-Optic Cable (FSL-E3 only):** Optimized for 9/125 micrometer cable @ 1310 nm.

Up to 30dB loss between nodes.

## TEMPERATURE AND HUMIDITY RANGES

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

## STANDARDS

The RPT-E3 is designed to comply with the following standard:

**UL Standard:** UL 864, 10th Edition

## AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult the factory for the latest listing status.

**UL Listed:** S1869

UL 864, 10th Edition

**FM Approved:** 3025415

**MEA FDNY:** COA# 6077

**CSFM:** 7165-1703-0125

**City of Chicago:** Class 1, Class 2 and High Rise

**City of Denver**

**ISO 9001 Certification**

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