

**CITY OF NEW YORK  
DEPARTMENT OF BUILDINGS**

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of the Material and Equipment Acceptance (MEA) Division.

**Patricia J. Lancaster, F.A.I.A., Commissioner  
MEA 76-04-E**

**Report of Material and Equipment Acceptance Division**

**Manufacturer - Fire Fighting Enterprises, 5 Wedgwood Court, Stevenage, Hertfordshire, SG1 4QR England.**

**Trade Name – Low Level Controller (LLC).**

**Product – Accessory to Reflective Beam Smoke Detector.**

**Pertinent Code Section(s) - New York City Building Code Reference Standard RS-17.**

**Tests - UL 268.**

**Laboratory - Underwriters Laboratories, Inc.**

**Test Report(s) - File S7218, Project 03CA06452 dated April 25, 2003, appended July 25, 2003, and revised October 10, 2003.**

**Description – The LLC is a low level aid to prove that the Fireray 50RU/100RU is operational, and can achieve an alarm condition within working parameters using a simple key operation.**

The LLC is mounted at ground level and is provided with four cables for wiring connection. Two cables are for power (10.2 to 30 volts dc), and two cables for serial communication between the LLC and the 50RU/100RU. Once the connection between the LLC, 50RU/100RU and power has been applied in the correct polarity, the LLC is ready for testing. (If power to the LLC is not on, or applied in the wrong polarity, the unit will not function correctly). A Pulsing Green lamp provides indication for correct communication, and a Red lamp provides indication for correct Alarm condition.

To initialize the test, the Fireray 50RU/100RU beam detector must be powered, aligned, and in its quiescent non-trouble state. The key for the LLC should be inserted and turned 90 degrees clockwise to the TEST position (the key cannot be removed from this position). Once communication has been established between the beam detector and the LLC, the green lamp on the LLC will flash each time it is polled by the beam detector. The amplifier gain of the beam detector's receiver will be automatically clocked down, forcing the beam detector to go into an alarm condition.

The red ALARM lamp on both the beam detector and the LLC will then illuminate. The Alarm relay on the beam detector will also operate, sending a signal to the fire panel. Should the LLC remain in the TEST position for greater than 20 seconds, the beam detector will automatically revert back to its normal operating condition and the Alarm relay will reset (if set in the Non-Latching Mode). The red Alarm lamp on the LLC will remain illuminated until the key has been turned 90 degrees counter-clockwise to the RUN position. The key can now be removed from the LLC.

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections Letter dated March 4, 2004, F.P. Index No. 0402028.

Recommendation - That the above units be accepted on conditions that all uses, configurations, arrangements and functions, application and installations comply with the provisions of New York City Building Code, specifically Subchapter 17 and Reference Standard 17-3. Further, the installation and spacing shall be in accordance with the manufacturer's recommendations, NFPA 72 and UL Standard. Periodic maintenance and sensitivity tests where required shall be conducted in accordance with the regulations of Fire Department.

All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance April 19, 2004  
Examined by Donald J. [Signature]