

HIGHLY INTEGRATED DATA BUS
AUTOMATIC FIRE EXTINGUISHING SYSTEM

ABSTRACT

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A fire extinguishing system includes a first data bus having respectively first power and command leads. The system has multiple zones, each of which may include one or more detectors, and/or one or more suppressors and activation devices. The first data bus is directly connected and common to the detectors,
10 suppressors and activation devices. A controller is connected to the multiple zones via the first data bus. A fire activation module includes the actuation device. First and second power leads are connected to the actuation device. A capacitor is connected to the actuation device and the power leads. The capacitor is configured to store electricity from the power leads and discharge the electricity to the actuation
15 device during a suppression event. A wiring harness provides a zone identification element in communication with a connector and configured to provide a zone location assignment to the connector.