

Fire & smoke



AZE Smoke Detector Central

Display unit for Modbus KRM 24 V AC / DC

For connection and indicate the operating conditions of up to 99 smoke detectors channel type KRM - 2 - MOD / KRM - 2 - DZ - MOD.

The display unit takes over the display and analysis of smoke , pollution , disturbance and cable monitoring for cable break and short circuit , which are displayed on the LCD display in plain text and with LEDs . The message is both potential-free contacts and an RS 485 interface for forwarding to building automation systems.

A keyboard allows the current status of each detector query . Housing with click-in base for installation on mounting rail in the control cabinet.

(AZE)



KRM Smoke Detector

KRM duct smoke detector

The KRM duct smoke detector is designed for smoke detection in ventilation ducts. It constitutes a combination of a smoke detector with an adapter system, whose measuring tube and housing have been specially adapted for optimal air flow through the smoke detector.

The multi-chamber measuring tube in the air duct transports the air within the air duct along the entire length of the tube, through the sensing chamber and back into the air duct. Upon detection of smoke, the sensor reacts immediately and triggers an alarm. Over time, the sensor becomes contaminated. Because of alarm threshold tracking, the sensitivity up to total pollution remains the same. From 70 % contamination upwards, the sensor is triggered and indicates this by flashing. If the sensor is not replaced the smoke alarm is triggered at 99 % contamination. The contamination level is indicated in a two-line LED display; at > 70 % it flashes.

To verify operability, the device is equipped with electronic air flow monitoring, which lights a blue LED at < 1 m/s. The failure LED illuminates when the smoke sensor or the electronics are defective, and in the absence of a smoke detector.

The smoke alarm must be released with the reset button. A functionality test is also possible with the same button. The operation functions like a smoke alarm. Furthermore, the same function takes place on restart or when the bridge circuit between terminals 9 and 10 is opened (remote release).

(KRM)



Monitoring unit OMU-103

ULRICA Fiber-Optic Distributed Heat Detection System

ULRICA is a heat detector system based on fiber optic technology. The system consists of three components, fiber optic sensor cable, monitor unit - OMU and relay card.

The sensor cable consists of an optical fiber strapped to a temperature sensitive body. This forms a continuous line heat detector sensing temperature and indicating alarm at a defined temperature. Heat detection is provided continuously along the length of the sensor cable. The design is completely dielectric and therefore not affected by electromagnetic radiation or electrical discharge.

The monitor unit covers 2000 m of sensor cable. Common practice is to configure the monitored area into alarm zones. The system allows supervision of up to 256 zones. Each zone can be configured as a continuous length of cable or a combined arbitrary number cable sections. Minimum length of a zone is two meters. Maximum zone length is equivalent to the entire length of cable.

The system is able to detect several hot-spots along the sensor cable and separate them in different zones as well as pinpoint the position of each hot spot. Indication of alarm to a surveillance system is made by traditional relay logic. Relays may be selected normally open or normally closed available on the front connectors. There is also a separate general alarm output (any zone), normally open, on PIN 6 and PIN 9 of the RS-485 connector. The Ethernet port is used by the "OMU config tool" when configuring



the system. The Ethernet interface may also be used by a surveillance system to monitor the system status thus replacing the relay logic. Internal system errors generated by fiber break or other hardware or software faults will put the unit in an error state and indicate system error through the Health relay.

(OMU103)

SKI-55 Sensor Cable

Sensor cable SKI-55 for indoor use and tunnels

The sensor cable SKI-55 consists of an optical fiber strapped to a temperature sensitive body. This forms a continuous line heat detector sensing temperature and indicating alarm at a defined temperature. Heat detection is provided continuously along the length of the sensor cable. The design is completely dielectric and therefore not affected by electromagnetic radiation or electrical discharge.

The monitor unit can covers 2000 m of sensor cable. Common practice is to configure the monitored area into alarm zones. The system allows supervision of up to 256 zones. Each zone can be configured as a continuous length of cable or a combined arbitrary number cable sections. Minimum length of a zone is two meters. Maximum zone length is equivalent to the entire length of cable.

The system is able to detect several hot-spots along the sensor cable and separate them in different zones as well as pinpoint the position of each hot spot. Indication of alarm to a surveillance system is made by traditional relay logic.

(SKI55)

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