INTELLIGENT LOW PROFILE PLUG-IN DETECTORS

DESCRIPTION

The Eclipse series intelligent low profile plug-in detectors, manufactured by System Sensor, is a peer-to-peer, all digital protocol that allows for numerous applications such as fire, security, access and HVAC control. Eclipse provides faster device response time, with more flexibility than ever possible before. This digital, peer-to-peer protocol enables pinpoint accuracy in as little as a quarter second - without interference problems that can plague other systems.

The Eclipse system distributes intelligence to the networked devices. In fact, Eclipse turns every networked device into a peer, capable of generating messages readable by the entire system. Additionally, with Eclipse, no special communication cables are required, making it ideal for retrofit applications.

The isolator versions have on-board short circuit isolators to prevent shorts on the signaling line circuit (SLC) from disabling all devices on the intelligent loop.

63-1052/63-1058 Photoelectric Smoke Sensor Photoelectric provides peer-to-peer digital protocol for reliable, fast communications. The sensor includes a tri-color LED for instant indication of device status. An Acclimate™ feature is defaulted ON to provide optimum fire detection response. This feature allows sensors to respond to a particular environment and its operating parameters are maintained within non-volatile RAM in the sensor. Dual Alarms (night and day sensitivity) with threshold settings between 1.3 - 3.6%ft. Dual Pre-Alarms with threshold setting between 0.5 - 4.0%ft.

63-1053/63-1059 Photo/Heat Combination Sensor provides peer-to-peer digital protocol for reliable fast communications. The sensor has the ability to alarm from either or both different types of detection and includes a tri-color LED for instant indication of device status. Dual electronic thermistors add 135° F fixed temperature thermal sensing to the standard photoelectronic sensor. Even though this is a dual sensing device, it only uses one address on the SLC loop.

60-1039/60-1040 Thermal Sensor are spot-type heat detectors designed to be programmable for a setpoint range of 135° to 174°F for ordinary detection or 175° to 190°F for intermediate detection. Detectors in the ordinary range may be programmed for either fixed or 15°F rate of rise operation. Additional features include Flame Inhancement and Pre-alarms from 70°-150°F.

67-033/67-034 Ion Sensors provide peer-to-peer digital protocol for reliable, fast communications. The sensor includes a tri-color LED for instant indication of device status. An Acclimate feature is defaulted ON to provide optimum fire detection response. Dual alarms (day and night sensitivity) with threshold settings between 80-50 uAmps MIC are available. Dual pre-alarms with threshold settings between 100-40 uAmps MIC are also available. Configurable for Acclimate, alarm verfication, and drift compensation.

55-051 Configuration IR Tool is designed to communicate with Eclipse devices via infrared signals. The configuration tool will give the user the ability to communicate with the panel and other devices through any selected device on the loop. The 55-051 can read device information such as type, loop, address and sensitivity along with set loop, address, branch and service date. It can also initiate a walk test. The 55-051 features a 16-character liquid crystal display and 17-button keypad.

63-1052 in 63-1054 Base

60-1039 in 63-1055 Base

63-1053 in 63-1060 Base

67-033 in 63-1060 Base

Form No. P.1.52.01-1

STANDARD FEATURES/SPECIFICATIONS

- Sleek, low-profile design
- Distributed intelligence
- Greater system design freedom
- Peer-to-peer communication
- Digital communication protocol
- Numerous applications (Fire, Security, Access and HVAC control)
- Fast response time
- Superior noise immunity
- Low standby current
- Communicate with the devices via hand-held configuration tool
- Height: 2.1" (51 mm)
- Diameter: 6.1" (155 mm), installed in 63-1054/63-1060 base; 4.1" (104 mm), installed 63-1055/63-1061 base
- Shipping Weight:
  - Heat: 4.8 oz. (136 g)
  - Photo/Photo with Heat: 5.2 oz. (147 g)
- Operating Temperature Range:
  - Photo: 32° to 120^OF (0° to 49^OC)
  - Photo with Thermal: 32° to 100^OF (0° to 38^OC)
  - Thermal: -4° to 100^OF (-20° to 38^OC); 135° to 174^OF setpoint
  - High Temperature Thermal: -4° to 150^OF (-20° to 66^OC); 175° to 190^OF setpoint

- Spacing for Thermal Detectors:
  - Detectors set between 135° to 155^OF or 175° to 190^OF : 50 foot spacing
  - Detectors set between 156° to 174^OF: 15 foot spacing
- Relative Humidity: 0% to 93% RH non-condensing
- Thermal Ratings:
  - Fixed Temperature Setpoint: 135^OF (57^OC)
  - Rate of Rise Detection: $15^OF/min$. ($8.3^OC/min$.)
  - High Temperature Heat: 190^OF (88^OC)
- Voltage Range: 15 – 30 volts DC peak
- Standby Current (max. avg.):
  - Thermal: 215 μA @ 24 VDC (continuous broadcasts)
  - Photo/Photo with Thermal: 250 μA @ 24 VDC (continuous broadcasts)
- LED Current (max.): 6.5 mA @ 24 VDC (on)

55-051 Specifications
- Dimensions: 1.3"H x 2.2"W x 7.7"L
- Communication Range: Up to 30 feet
- Battery Life: 168 hours (typical usage)
- Operating Temperature Range: 32° to 122^OF (0° to 50^OC)
- Relative Humidity: 10% to 90% RH non-condensing

AVAILABLE MODELS

Description	Fike Model No.	Manf. Model No.
Photoelectric Smoke Detector	63-1052/63-1058*	ED-P/ED-PI
Photoelectric with Thermal	63-1053/63-1059*	ED-PT/ED-PTI
Fixed Temperature/ROR/Hi-Temp Thermal Detector	60-1039/60-1040*	ED-T/ED-TI
Ion Sensor	67-033/67-034*	ED-I/ED-II
Mounting Bases		
6" Flanged Mounting Base	63-1054/63-1060*	EBF/EBFI
4" Flangeless Mounting Base	63-1055/63-1061*	EB/EBI
Recessed Mounting Kit	02-10373	RMK400
4" Flangeless Surface Mounting Kit	20-1083	SMK400E
6" Flanged Surface Mounting Kit	20-1084	A10-29-400
Accessories		
Retrofit Flange	20-1085	F110
Remote LED Annunciator	02-3868	RA400Z
Detector Removal Tool (20-1089 included)	20-1087	XR2B
Extension for 02-4985 (5–15 ft)	02-4986	XP-4
Detector Removal Head	20-1089	T55-127-000
Black Detector Kit	20-1090	BCK-200B
Configuration IR Tool	55-051	EA-CT

Indicates models with built in isolators.