



by Honeywell

Velociti® Series ATD-L2F, ATD-RL2F

Description

The Gamewell-FCI Velociti® Series, addressable plug-in thermal sensors with integral communication provide features that surpass conventional sensors. Point ID capability allows each sensor's address to be set, providing exact locations for pinpointing alarm locations and for selective maintenance. ATD thermal sensors use an innovative thermistor sensing circuit to produce 135°F/57°C fixed-temperature (ATD-L2F). The ATD-RL2F provides a combination 15°/minute rate-of-rise with 135° fixed thermal detection that is included in a low-profile package. The ATD-HL2F provides fixed high-temperature detection at 190°F/88°C. These thermal sensors provide cost-effective, addressable property protection in a variety of applications.

The Velociti® Series uses a communication protocol that substantially increases the speed of communication between the sensors and Gamewell-FCI analog addressable fire alarm controls. These devices operate in a grouped fashion. If one of the devices in the group has a status change, the panel's microprocessor stops the group poll and identifies the single device with the status change. The net effect is response speed up to five times greater than earlier designs.

Installation

ATD plug-in sensors use a separate base to simplify installation, service, and maintenance. A special tool allows maintenance personnel to plug-in and remove sensors without using a ladder.

Mount the base on a box which is at least 1.5" (3.8 cm) deep. Suitable mounting base boxes include:

- 4.0" (10.2 cm) square box.
- 3.5" (8.9 cm) or 4.0" (10.2 cm) octagonal box.
- Single-gang box (except relay or isolator base).
- With B200S or B200SR base, mounted on a 4.0" (10.2 cm) octagonal or square box.
- With B224RB or B224BI base, mounted on a 3.5" (8.9 cm) octagonal box, or a 4.0" (10.2 cm) octagonal or square box.

NOTE: Because of the inherent supervision provided by the SLC, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring.

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Addressable Thermal Sensor



ATD-L2F

Features

- Sleek, low-profile design
- Visual rotary switch addressing
- Built-in functional test switch activated by an external magnet
- Bicolor LEDs flash green whenever the sensor is addressed, and light steadily red on alarm*
- Optional relay, isolator, or sounder bases
- Low standby current
- Addressable communication
- Stable communication technique with noise immunity
- Optional remote, single-gang LED accessory (RA-100Z)
- Suitable for installation in ducts

Note: *Only the red LED is operative in panels that do not operate in Velociti® mode.

An ISO 9001-2000 Company

SIGNALING



MEA
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Specifications are for information only, are not intended for installation purposes, and are subject to change without notice. No responsibility is assumed by Gamewell-FCI for their use.

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9020-0620 Rev. E page 1 of 2

Specifications

ATD-L2F/ATD-RL2F

Dimensions: 2.1" (5.3 cm) Height
4.1" (10.4 cm) diameter installed in the B501 base
6.1" (15.5 cm) diameter installed in the B210LP base

Shipping Weight: 4.8 oz. (137 g)

Operating

Temperature:

ATD-L2F or ATD-RL2F -4° F to 100° F (-20° C to 38°C)
ATD-HL2 -4° F to 150°F (-20 C to 66°C)

Sensor Spacing: UL[®] approved for 50 ft. (15.2 m) center to center
FM approved for 25 x 25 ft. (7.6 x 7.6 m) spacing

Relative Humidity: 10 – 93% (non-condensing)

ATD-L2F Fixed-temperature setpoint 135°F (57°C)

ATD-RL2F Combination 135° F fixed temperature and 15° F(8.3°c)/per minute rate-of-rise°

ATD-HL2F Fixed-temperature setpoint 190°F (88°C)

Electrical Specifications

Voltage Range: 15 - 32 Volts DC peak

Standby Current: 200 mA @ 24 VDC (without communication)

(max. avg.) .0003 A @ 24 VDC (one communication every 5 seconds with LED blink enabled)

LED Current (max.) .0065 A @ 24 VDC (LED lit)

Specifications

Bases and Options

B501 Plug-in sensor base without flange

Dimensions: 4.1" (10.4 cm) diameter

B210LP Flanged mounting base

Dimensions: 6.1" (15.5 cm) diameter

B210LPBP Flanged mounting base bulk pack

Dimensions: 6.1" (15.5 cm) diameter

B224RB Plug-in sensor base with auxiliary relay, SPDT

2 coil latching relay 1 Form C contact UL/ CSA Rating:
0.9 A @ 125 VAC (inductive)
0.9 @ 110 VDC (inductive)
3.A @ 30 VDC (resistive)

Dimensions: 6.1" (15.5 cm) diameter

B224BI Plug-in sensor isolator base for Style 7 operation

Dimensions: 6.1" (15.5 cm) diameter
Maximum 25 devices between isolator bases

B200S Intelligent sensor sounder base

Dimensions: 6.875" (17.5 cm) diameter

B200SR Standard sounder base, UL 864 9th Edition compliant, ULC Listed

Dimensions: 6.875" (17.5 cm) diameter

RA-100Z Remote LED Annunciator

BCK-200 Black detector covers (box of 10)

Ordering Information

Part Number	Description
ATD-L2F	Addressable thermal sensor, fixed, 135° F
ATD-RL2F	Addressable thermal sensor, combination fixed, 135° F and 15°/minute rate-of-rise.
ATD-HL2F	Addressable thermal sensor, fixed, 190° F

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