

JOHNSON CONTROLS

Installation and Maintenance Instructions for 5951J, 5951RJ and 5951HJ Intelligent Plug-in Temperature Sensors

This sensor must be installed in compliance with the control panel system installation manual. The installation must meet the requirements of the Authority Having Jurisdiction (AHJ). Sensors offer maximum performance when installed in compliance with the National Fire Protection Association (NFPA); see NFPA 72.

Before installing sensors, please read the system wiring and installation manual thoroughly. This manual provides detailed information on sensor spacing, placement, zoning, and special applications. Copies of these manuals are available from Johnson Controls.

GENERAL DESCRIPTION

Models 5951J, 5951RJ and 5951HJ are intelligent sensors that use a state-of-the-art thermistor sensing circuit for fast response. These sensors are designed to provide open area protection with 50 foot spacing capability. Model 5951J is a fixed temperature sensor with 135° F fixed temperature alarm. Model 5951RJ is a rate-of-rise temperature sensor with 135° F fixed temperature alarm. Model 5951HJ is a high temperature sensor with 190° F fixed temperature alarm.

Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory (Part No. RA400Z).

Johnson Controls panels offer different feature sets across different models. As a result, certain features of the 5951J, 5951RJ and 5951HJ may be available on some control panels, but not on others. The sensor will support either FlashScan™ or CLIP (Classic Loop Interface Protocol) SLC Communication mode. The possible features available in the 5951J, 5951RJ and 5951HJ if supported by the control unit include:

1. The panel controls the LED operation on the sensor. Operational modes are RED blink, RED continuous, GREEN blink, GREEN continuous, and off.
2. The remote output may be synchronized to the LED operation or controlled independent of the LEDs.

Please refer to the operation manual for the UL listed control unit for specific operation of these models.

Models 5951J, 5951RJ and 5951HJ require compatible addressable SLC communications to function properly. Connect these sensors to listed-compatible control panels only.

SPECIFICATIONS

Diameter:	6.1 inches (155 mm) installed in B210LPJ 4.1 inches (104 mm) installed in B501J
Height:	2.0 inches (51 mm) installed in B210LPJ or B501J bases
Weight:	4.8 ounces (137 gm)
Installation Temperature	
5951J and 5951RJ:	–4°F to 100°F (–20°C to 38°C)
5951HJ:	–4°F to 150°F (–20°C to 66°C)
Operating Humidity Range:	10% to 93% Relative Humidity Noncondensing
Mounting:	B210LPJ flanged base B501J flangeless base
Voltage Range:	15 to 32 Volts DC Peak
Standby Current:	300 μ A @ 24 VDC (one communication every 5 sec.with LED blink enabled)
LED Current:	6.5 mA @ 24 VDC
Fixed Temperature Setpoint	
5951J and 5951RJ:	135°F (57°C)
5951HJ:	190°F (88°C)
Rate of Rise Detection (5951RJ):	Responds to greater than 15°F/min.