

Product Summary Sheet

MN220 - Hardwire 2-Wire Smoke Detector

The MN220 photoelectric smoke detector uses a unique patented chamber to detect both 'flash' fires and slow, smoldering fires equally as well. The detector detects light reflected within the chamber from smoke particles. It has a reticulated bottom to gather dust and dirt, and since it does not use a reflective surface, cleaning is not necessary. The detector performs a low sensitivity test every 40 seconds to ensure it can properly detect the presence of smoke.

Several variations are available, including models with a built in heat detector (rated at 57°C or 135°C) and Form 'C' Auxiliary relay options.

Compatibility (Version Identification):

All models include Form 'A' alarm relay contacts.

MN220 Standard

MN220T Fixed-temperature sensor MN220R Form 'C' auxiliary relay

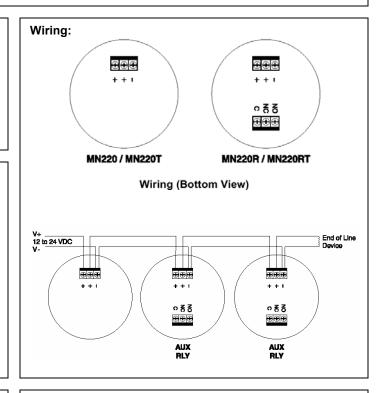
MN220RT Form 'C' auxiliary relay and fixed-temperature

sensor

LED and Auxiliary Relay Condition:

Alarm Indications

Condition	Alarm LED	Aux Relay
No smoke or heat	Pulse every 40 s	Deactivated
Smoke or heat	ON steady	Activated
Sensitivity test functioning normally	ON Steady	Activated
Sensitivity test insufficient sensitivity	Pulse every 40 s	Deactivated
No smoke or heat but latched in alarm	ON steady	Activated



Testing Smoke Detector:

In addition to the automatic low sensitivity test completed every 40 seconds, the unit can be manually tested. To manually test the detector, perform the following:

 Place a magnet under the raised line on the base of the unit to activate the built-in test reed-switch

The LED should turn ON and the panel should go into an alarm condition. The detector will remain latched in alarm until power is removed from the detector.

Troubleshooting:

- During normal operation, the LED will flash every 40 to 50 seconds.
- If the detector chirps every 40-50 seconds the unit has detected that it has low sensitivity and must be replaced.
- 3. Ensure that the loop resistance is 2.2K.
- 4. It can be difficult to find the correct spot to locate the magnet to activate the built-in reed switch. If a dealer is having a problem, have them move the magnet ½ inch left or right and ½ inch up and down to find the correct spot.

PowerSeries Panels

- If the dealer cannot reset the smoke detector, make sure that it is wired to PGM2 and ensure that it is programmed as a [04], two-wire smoke support.
- The panel will display a Fire Trouble condition if jumper J1 or CON1 is not removed from the main panel.