



MN140 – Hardwire 4-Wire Smoke Detector

The MN140 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 85dB sounder, a built-in heat detector (rated at 57°C or 135°C), interconnect relay and Form 'C' auxiliary relay options.

Compatibility (Version Identification):

All models are non-latching and include Form 'A' alarm relay contacts.

MN140	Standard
MN140T	Fixed-temperature sensor
MN140R	Form 'C' auxiliary relay
MN140RT	Form 'C' auxiliary relay and fixed-temperature sensor
MN140C	Built-in sounder and interconnect
MN140CT	Built-in sounder, interconnect and fixed-temperature sensor
MN140CH	Built-in sounder, interconnect, fixed-temperature sensor with Form 'A' auxiliary relay

LED, Auxiliary Relay and Sounder Condition:

Alarm Indications (except model MN140CH)

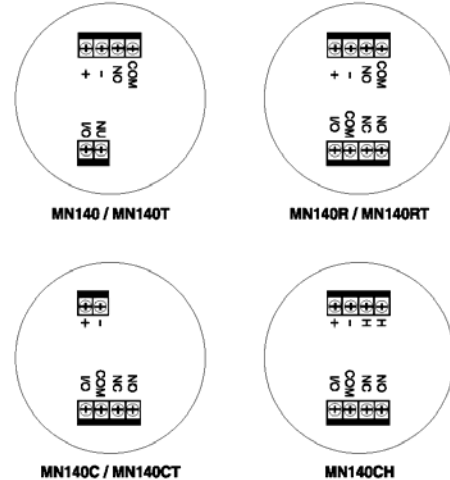
Condition	Sounder	Indicator Light	Relay(s)
No Smoke or Heat	Silent	ON steady	D†
Local Smoke or Heat	Alarm	OFF	A†
Remote Smoke or Heat	Alarm	ON steady	D
Automatic Self Test Functioning Normally	Silent	ON steady	D
Automatic Self Test Insufficient Sensitivity	Chirp every 40 s	ON steady	D
Push-button Test Functioning Normally	Chirp every 40 s	ON steady	D
Push-button Test Insufficient Sensitivity	Silent	ON steady	D

Alarm Indications for model MN140CH)

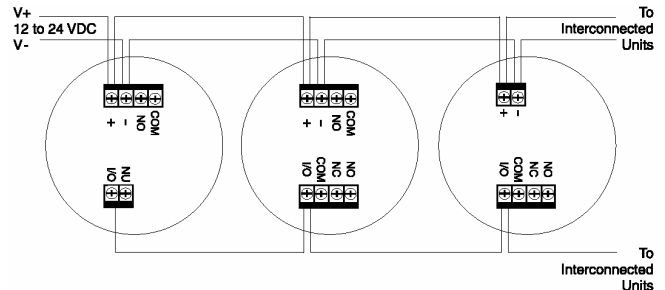
Condition	Sounder	Indicator Light	Relay "A"	Relay "C"
No smoke or heat	Silent	ON steady	D†	D
Local smoke or heat	Alarm	OFF	D	A†
Local heat	Silent	ON steady	A	D
Remote smoke	Alarm	ON	D	D
Automatic self-test functioning normally	Silent	ON steady	D	D
Automatic self-test insufficient sensitivity	Chirp every 40-50 s	ON steady	D	D
Push-button test functioning normally	Alarm	OFF	D	A
Push-button test insufficient sensitivity	Silent	ON steady	D	D

† D = Deactivated, A = Activated

Wiring:



Wiring (Bottom View)



Troubleshooting:

1. During normal operation, the LED will flash every 40-50 seconds
2. If the detector 'chirps' every 40-50 seconds, the unit has detected it has low sensitivity and the detector must be replaced.
3. It may be difficult to locate the magnet to the internal reed switch. If a dealer has trouble, have them move the magnet up and down and side to side about 1/2 inch in every direction to find the correct spot.
4. If the zone is not working properly, make sure that the resistor is connected and the loop resistance is 5.6K.