

READ INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE INSTALLING.

Electrical Rating: 120V AC 60 HZ 0.08 AMP  
 Contact Rating: 10 AMPS @ 120 VAC  
 NON INDUCTIVE  
 5 AMPS @ 30 VDC



**DESCRIPTION:**

This module is only activated by a Kidde Carbon Monoxide Alarm interconnect signal. Compatible with alarm models: KN-COSM-I, KN-COSM-IB, KN-COSM-ICA, KN-COSM-IBCA, KN-COB-IC, KN-COB-IC-CA, KN-COB-ICB-CA, KN-COP-IC, KN-COP-IC-CA

This relay module can be used to activate auxiliary warning devices such as external bells and sirens, hallway or stairwell lighting. It provides isolated, (no internal connection to 120 volts AC) normally open, and normally closed contacts.

Outer packaging is blue, in order to distinguish from Smoke Relay Module, Model SM120X, which has black outer packaging.

This device will only activate when it receives a CO interconnect signal from a compatible device. When in the activated mode (as a result of a CO signal), this device will deactivate if it receives a smoke interconnect signal from a compatible device.

**WARNING!** Alarm and module wiring must conform to the electrical codes and local codes in your area. In USA, it includes articles 210 and 300.3(B) of the U.S. National Electrical Code ANSI/NFPA 70, and NFPA 72. The multiple station interconnect wiring to the alarms must be run in the same raceway or cable as the AC power wiring. In addition, the resistance of the interconnect wiring shall be a maximum of 10 ohms.

All wiring should be performed by a licensed electrician. The module should be installed in a UL listed junction box that has sufficient volume for proper installation. The electrical circuit used to power the alarms and the module must be a 120 volt AC 60hz circuit which cannot be turned off by a switch or a ground fault interrupter, it must be on 24 hours a day. Since this module is 120 volt AC powered, it will not function during an AC power failure, even if it is being used with models KN-COSM-IB, KN-COSM-IBCA, KN-COB-IC or KN-COP-IC, alarms which have battery backup power.

**IMPORTANT:** Whenever alarms and modules are interconnected they must be powered from a single circuit. When wiring the module remote from the alarm use UL/CSA listed wire as required by codes in your area. Do not use more than 1000 feet of wire between the first and last device in the multi station system.

**INSTALLATION INSTRUCTIONS:**

This module should be installed in a UL listed junction box. All connections should be made by a qualified electrician in accordance with the requirements of the national electrical code and/or any other local codes having jurisdiction in your area.

Turn off the main power to the circuit. If you are also installing smoke alarms, heat alarms, or CO alarms, wire them according to their specific owner's manual. Refer to the typical installation diagram (Figure 1) included in this manual for your specific application.

**Connections on the CO Relay Module:**

Black Wire	AC Hot
White Wire	AC Neutral
Red Wire	Interconnect Signal
Blue Wire	Common Contact
Yellow Wire	Normally Closed Contact
Orange Wire	Normally Open Contact

After all connections are made, place the module inside a UL listed junction box, where the alarm is installed, or in a remote location and use the appropriate electrical box cover.

**CAUTION:** The model CO120X should not be used to connect groups of CO alarms to an alarm panel or to interconnect groups of CO alarms together.

Residential alarms do not latch in the alarm condition and they are self-resetting. If an alarm connected to a module has the test button pushed or the alarm momentarily activates, it will activate the module for as long as the unit is in alarm. If more than one alarm is connected to the module and the module is tied to a control panel there will be no way of knowing which unit caused the alarm.

The model CO120X module is for use with the following interconnectable models: Carbon Monoxide Alarms: KN-COB-IC, KN-COB-IC-CA, KN-COB-ICB-CA, KN-COP-IC and KN-COP-IC-CA, and CO/ Smoke Combo Alarms: KN-COSM-I, KN-COSM-IB, KN-COSM-ICA and KN-COSM-IBCA, all with red interconnect wires. Each module is equivalent to one interconnect alarm, reduce the maximum number of interconnect devices by one for each module used. Do not exceed the total number of devices allowable in the interconnect system, refer to the individual alarm owners manual for the maximum number of units allowed when interconnecting. Do not exceed the temperature or humidity limits of +40°F (4.4°C) to 100°F (37.8°C) (such as garages and unfinished attics) and 85% relative humidity for either the relay module or the alarms.

**NOTE:** Only the Carbon Monoxide portion of the: KN-COSM-I, KN-COSM-IB, KN-COSM-ICA and KN-COSM-IBCA combo alarms will activate this module. If activation is required from the Smoke Alarm portion of these alarms, use the SM120X module.

**ATTENTION:** The wiring connecting the module with the external devices is not supervised. Be sure to test the operation of all the devices controlling the module or controlled by the module. Devices controlled by the module can be tested by pushing the test button on the alarms and verifying that the controlled device responds in the desired manner.

**ADDITIONAL INSTALLATION INFORMATION:** If the desired function is to switch off a device when the alarms sound, connect the yellow wire (NC) instead of the orange wire (NO) to the supply side of the device. Be sure not to exceed the relay contact ratings of the module. This module should not be used to control inductive loads with inrush currents that will exceed the maximum contact ratings.

**ONE YEAR LIMITED WARRANTY:**

Kidde warrants to the Purchaser that the enclosed module will be free of defects in material, workmanship or design under normal use and service for a period of one year from the date of purchase. The obligation to Kidde under this warranty is limited to repairing or replacing any part which we find to be defective in material, workmanship, or design, free of charge, to the customer, upon sending the relay module with proof of date of purchase, postage and return postage prepaid, to Warranty Service dept. Kidde Safety, 1016 Corporate Park Drive, Mebane, NC 27302 USA. (1-800-880-6788) This warranty shall not apply to the relay module if it has been damaged, modified, abused or altered after the date of purchase, or if it fails to operate due to improper maintenance or inadequate AC electrical power.

The liability of Kidde or any of its parent or subsidiary corporations arising from the sale of this accessory module or under the terms of this limited warranty shall not in any case exceed the cost of the replacement of the module and, in no case, shall Kidde or any of its parent or subsidiary corporations be liable for consequential loss or damages resulting from the failure of the relay module or for the breach of this or any other warranties, expressed or implied, even if the loss of damage is caused the company's negligence or fault.

Since some states/provinces do not allow limitations on the duration of an implied warranty or do not allow the exclusions or limitations of incidental or consequential damages the above limitations or exclusions may not apply to you. While this warranty gives you specific legal rights, you may also have other rights, which vary from state to state, or province to province. The above warranty may not be altered except in writing signed by both parties hereto.

FIGURE 1 shows a typical installation of a relay module wired to switch on 120 volt device when the alarms sound. In this configuration the common switch contact (blue wire) is connected to the 120 volt supply. When the alarms sound the module detects the signal on the interconnect line (red wire) and activates the relay. As a result of this action, the orange wire (NO) supplies 120 volts to the device.

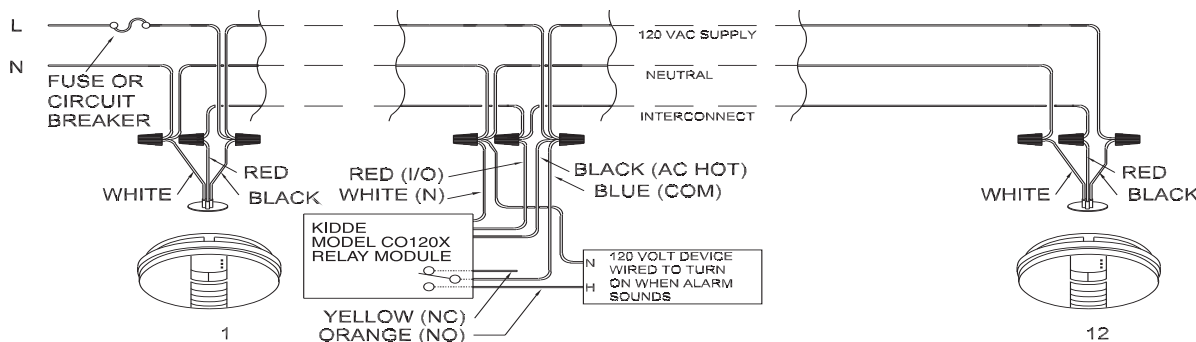


FIGURE 1