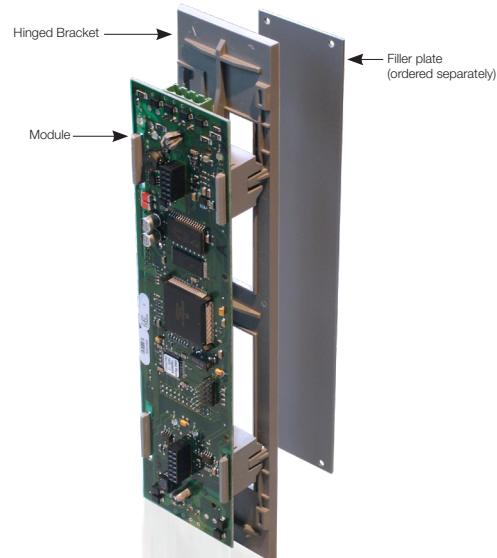




LIFE SAFETY & INCIDENT MANAGEMENT

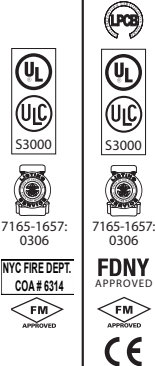
Hardwired Module

3-IDC 8/4



Approvals

EST4 | EST3



EN 54-2: 1997 + A1: 2006
 EN 54-4: 1997 + A1: 2002 + A2: 2006
 EN 54-16: 2008

Overview

The Initiating Device Circuit module is a local rail module that provides the interface between the system control panel and conventional hardwired circuits. The 3-IDC 8/4 has eight supervised Class B input circuits. Four of the eight configure from input circuits to Notification Appliance Circuits. A wide range of wire sizes are supported by the 3-IDC 8/4 making retrofit easy. Removable field wiring terminals reduce the effort and time needed to trouble shoot field wiring or replace modules.

Any Control Display module will mount in front of the 3-IDC 8/4 allowing great flexibility of system user interface layout. However, the 3-IDC 8/4 cannot be mounted behind the 4-FT Fire Fighter Master Handset module.

Standard Features

- Eight supervised Class B hardwired circuits - configure as eight input circuits or configure up to four of the eight as Notification Appliance Circuits
- Latching or non-latching by circuit
- Verified or non-verified
- Supports Regulated and Special Application NACs

Application

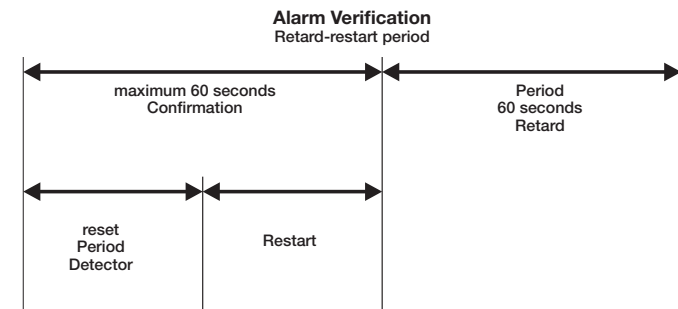
The 3-IDC 8/4 is ideal for retrofit projects where existing wiring, smoke detectors and signals may not need replacing.

Flexibility built right into the IDC module allows connection of normally open contact devices, and traditional 2 wire smoke detectors.

The 3-IDC 8/4 configures for use with N.O. contacts and supports supervised Supervisory and Monitor circuits with latching or non-latching operations. Use the monitor operation with the non-latching function and the circuit serves as a supervised event follower, efficiently covering critical fan and damper operations. Circuits will annunciate on the 3-LCD, control display modules or at any other display device on the network.

Up to 30 photoelectric or 50 ionization smoke detectors are supported per circuit. All circuits may be programmed for non-verified or verified smoke operation. The 3-IDC 8/4 incorporates software selectable impedance ranges for Input Circuit configurations, eliminating conventional smoke detector compatibility problems. Ranges include open circuit, shorted condition and high and low impedance (relative to the main impedance setting), allowing the use of various detectors of similar impedance and European alarm circuit operation.

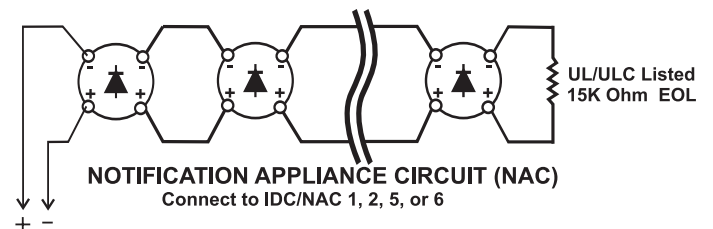
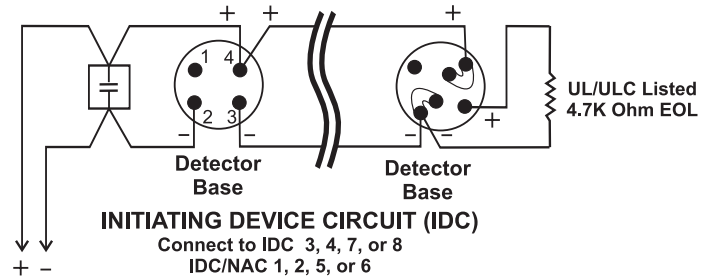
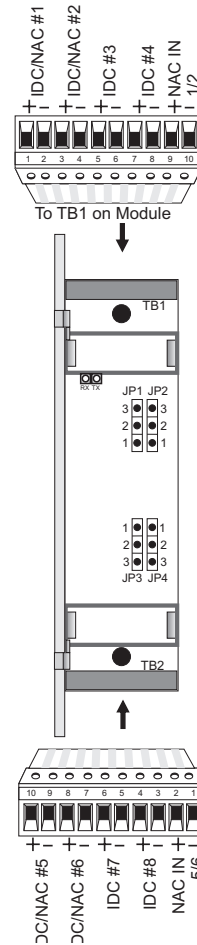
Four of the eight 3-IDC 8/4 circuits are convertible to Class B Notification Appliance Circuits. The circuits employ traditional reversing polarity operation for polarized bells, horns, and strobes. The Notification Appliance circuits are arranged in pairs. Each pair distributes 3.5 Amps at 24 Vdc from the local rail or a single riser. Riser sources supported include 24V @ 3.5 (this should be pulsed (Temporal pattern) for audible signals) or up to 70 Vrms @ 100W audio source for speakers. For Regulated signals, the IDC supports one NAC pair to distribute up to 1 Amp from the 3-PPS primary power supply through the local rail.



Engineering Specification

The fire panel shall be capable of supporting a variety of conventional smoke detectors with a single module. It must be possible to support polarized bells, horns or strobes. It shall be possible to provide hardwired supervisory and monitor functions with latching or non-latching operations. It shall be possible to display any circuit on an LCD or LED annunciator located anywhere on the network.

Typical Wiring



Specifications

Terminal Wire Sizes	18-12 AWG (1.0mm ² to 2.5mm ²)
Current	Standby: 48 mA @ 24 VDC Alarm: 408 mA @ 24 VDC
Maximum Rail or Riser Current Rating	3.5A @ 24 Vdc
Notification Appliance Rating	Special Application: 3.5A @ 24 Vdc Regulated: 1.0A @24Vdc
Audio Riser Rating	100 watts @ 70 Vrms 60 watts @ 25 Vrms
Notification Appliance Circuit EOL	15K Ohm
Initiating Device Circuit EOL	4.7K Ohm
Mounting	One Local Rail Space
EST4 Agency Listings	UL, ULC
EST3 Agency Listings	UL, ULC, FM, LPCB EN54*.

* EN 54-2: 1997 + A1: 2006, EN 54-4: 1997 + A1: 2002 + A2: 2006, and EN 54-16: 2008.

Ordering Information

Catalog Number	Description	Ship Wt. lb. (kg)
3-IDC8/4	Initiating Device Circuit Module	0.8 (0.36)
4-FIL	Blank EST4 filler plate (order separately when no LED or LED/Switch module is installed on the inner door).	0.1 (0.05)
3-FP	Filler Plate, order separately when no LED or LED/Switch module installed.	0.1 (0.05)
3-IDC8/4-E	Initiating Device Circuit Module for EN54 applications	0.8 (0.36)



LIFE SAFETY & INCIDENT MANAGEMENT

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