

IU2080NC

2000 Series IO Unit 1 Out (Supervised)

General

The IU2080NC is an intelligent 2000 series, addressable supervised output unit designed for efficient control of notification devices or any ancillary equipment that requires supervision. It is compatible with all fire alarm control panels that support the 2000 series protocol. The high output power available from the IU2080NC ensures meeting most requirements for signalling devices in any fire alarm system.

Operation

The IU2080NC utilizes an advanced digital data communications protocol that ensures the integrity of the data communication with extensive error correction algorithms. It ensures system reliability with continuous supervision and monitoring of the output circuit for open or short circuit conditions, as well as monitoring of the input auxiliary power supply for low voltage or fault conditions. The output circuit supports a continuous or pulsing output that significantly simplifies meeting requirements for differentiation of audible alarms for different alarm circumstances.

Installation

The IU2080NC loop address is set with a simple decimal rotary dial and is non-volatile - the address is not lost in the event of a power outage. The module is simply connected to a compatible fire alarm panel via a two-wire device communication loop that carries both data and operating power to the module. The indicating circuit is powered via a auxiliary power supply.

Programmability

The operation of the IU2080NC is fully configurable from the CIE (control panel) allowing for powerful and extremely flexible output configuration capabilities.



Details

- Versatile, addressable control for notification equipment
- Supervised output circuit with open and short circuit monitoring
- Programmable output with continuous and intermittent functions
- Notification circuit load supplied from an external supply does not load the detection loop
- External supply supervision warns when the supply voltage is low
- Easy decimal numeric addressing avoids address calculation errors and saves installation time
- EN54:18 approved and CPR certified

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Technical specifications

Electrical

| | |
|--------------------------------|---|
| Power supply type | VDC |
| Operating voltage | 17 to 28 VDC (fire panel loop), 20.1 to 28 VDC (external supply) |
| Current consumption | Fire panel Loop, <250 μ A, <200 μ A typical (Quiescent), <3.5 mA (Active), External supply (Quiescent), <11 mA @ 24 VDC, <12 mA @ 28 VDC, External supply excl. circuit load (Active), <69 mA @ 24 VDC, <70 mA @ 28 VDC |
| External low voltage detection | < 19.7 V |

Output

| | |
|------------------------|--|
| Output quantity | 1 |
| Output type and rating | Supervised, 3 A @ 20°C / 2.04 A @ 55°C |
| Termination | 10 k Ω , 5%, ¼ W |
| Supervisory voltage | 1.7 VDC, inverted |

General

| | |
|-------------------|-----------------------------|
| Status indication | LED |
| Compatibility | Aritech 2000 Series Systems |

Physical

| | |
|---------------------|-------------------|
| Physical dimensions | 175 x 124 x 51 mm |
| Net weight | 325 g |
| Colour | White |
| Mounting type | Surface Mount |
| Cable entries | 1 |
| Material | Plastic |

Environmental

| | |
|-----------------------|-------------------------|
| Vandal proof | No |
| Operating temperature | -10 to +55°C |
| Storage temperature | -20 to +60°C |
| Relative humidity | 10 to 95% noncondensing |
| Environment | Indoor |
| IP rating | IP40 |

Standards & regulation

| | |
|---------------|-------------------------|
| Compliance | CE, REACH, RoHS 2, WEEE |
| Certification | EN54-18 |

Output

| | |
|--------------------------|-----------------------|
| Short circuit (@ 24 VDC) | <4.5 k Ω |
| Standby (@ 24 VDC) | <5.5 to 16 k Ω |
| Open circuit | >20 k Ω |
| Minimum load | 100 mA |

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