

Description

621 analogue addressable single input/output modules provide the interface to connect an electrically isolated dry-contact switched input to Numens 2-wire addressable fire detection control and indicating equipment. Up to 125 modules can be connected to each alarm zone loop.

A parallel resistive input filter allows multiple states to be monitored at the input. The states are converted to the loop communications protocol by the module, to enable them to be displayed on the control and indicating equipment.

The 621 input/output module provides fire detection and alarm system designers with a Standards-compliant, premium product for life safety and property protection applications.

Features

- Single voltage-free relay output
- Output relay can be powered internally, or externally to conserve loop power load (selectable at installation)
- Single input for connection to dry contact inputs
- Monitors and signals three distinct input states
 - Normal
 - Alarm
 - Open-circuit
- Polling indicator shows quiescent operation
- Separate indicators for Quiescent, Alarm and Fault conditions
- Surface-mount device (SMD) circuit board design
- DC 24 V operation
- Easy installation with simple address setting DIP switches
- Convenient 2-wire connection
- Available with 125 usable address settings per loop when connected to Numens control and indicating equipment
- Low maintenance

Compliance

621 input modules have the following compliance.

	EN 54-18 ^{a, b}	CE
621-002	✓	✓

^a EN 54-18 Fire detection and fire alarm systems — Input/output devices

^b Third-party conformance assessment has not been undertaken.



621 analogue addressable input/output module

Specifications

	621-002
Operating voltage	DC (17 ~ 30) V
Start-up current	≤ 400 μA
Quiescent current	≤ 400 μA
Alarm current with Alarm LED on and output relay internally powered	12 mA
Input voltage (pulsed)	DC (5 ~ 9) V
Sampling time	1 s
Resistance for input short-circuit condition	≤ 2k2 Ω
Resistance for input Alarm condition	(2k2 ~ 8k2) Ω
Resistance for input Quiescent condition	(8k2 ~ 47k) Ω
Resistance for input open-circuit condition	≥ 47 kΩ
Number of inputs	1
Number of outputs	1
Output relay type	SPDT. 1 A @ DC 30 V / 1 A @ AC 240 V
Output relay wetting current	10 μA @ DC 10 mV
Alarm indicator	Red
Polling indicator	Flashing green
Output active indicator	Yellow
Terminal wiring	(0.4 ~ 2.5) mm ²
Usable addresses per alarm loop	125
Operating temperature	(-10 ~ +50) °C
Operating humidity	(0 ~ 95) % RH, non-condensing
Storage temperature	(-25 ~ +80) °C
Storage humidity	(0 ~ 98) % RH, non-condensing
Dimensions (h × w × d)	(95 × 95 × 42) mm
Ingress protection rating	IP-54

Ordering Information

621-002

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