Cautions

ELECTRICAL HAZARD: Disconnect power from equipment prior to making any internal adjustments. Service should only be performed by qualified personnel.

FRAGILE: Inspect the equipment prior to installation. Do not install the equipment if damage is apparent. Do not attempt to disassemble this equipment. If damaged, return to the supplier.

ELECTROSTATIC HAZARD: This is sensitive electronic equipment. Apply safe ant-static practices when handling this equipment.

CIRCUIT LIMITATIONS: The maximum number of devices connected to a single alarm zone is limited by the control and indicating equipment, and may be limited by local regulations.

Introduction

620 addressable mini input modules provide the interface to connect non-addressable input devices (such as detectors or manual call points) to Numens addressable control and indicating equipment.

These instructions provide trained installation personnel with details to install and commission 620 mini input modules for optimum performance.

Preparation

Before commencing installation, ensure all equipment and tools to mount and connect the equipment are available, such as drills, mounting screws, cables and ladders.

Installation

Address Setting

Select the module address and set the address as shown in Table 1 by adjusting the DIP switch settings located on the body.

Note: Addresses 0, 126 and 127 cannot be used.

Input Device Type Setting

Set DIP switch 8 according to the type of device connected to the mini input module.

DIP switch 8	620-001	620-002
ON	Heat detector	Dry contacts
OFF	Smoke detector	Manual call point

Wiring

The terminals accept (0.4 ~ 2.5) mm^2 conductors.

1. Strip the conductor insulation to expose 5 mm of the conductor.
2. Connect the conductors to the base terminals as shown in Fig. 1.

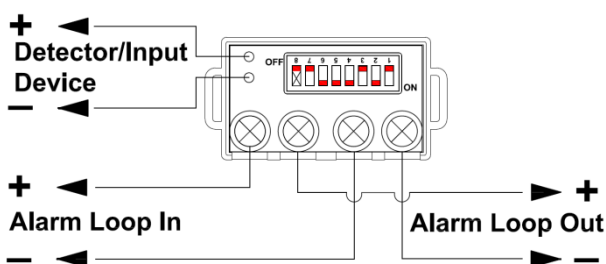**WARNING**: Take care to ensure the insulation does not get clamped by the terminal contact.

Fig. 1: 620 wiring connections

3. Check the wiring for continuity, short circuits and earth faults.

Commissioning

Mini Input Module

1. Ensure all the alarm signal services, releasing devices and extinguisher systems are disabled during the commissioning period.
2. Install the device (eg detector or manual call point) in the non-addressable alarm zone and connect it to the detector/input device conductors (see Fig. 1).
3. Connect power to the module.
4. Activate the connected device.
5. Check that the device reports an alarm at the control and indicating equipment.
6. Reset the control and indicating equipment.
7. Check that the device alarm indicator is not illuminated.
8. Disconnect a device from the module.
9. Check that the control and indicating equipment enters the fault warning condition.
10. Re-connect the removed device.
11. Check that the control and indicating equipment returns to the quiescent condition.

Final Conditions

Ensure all the alarm signal services, releasing devices and extinguisher systems disabled for the commissioning are returned to their previous condition.

References

Document	Description
31-0027	620 mini input module datasheet

View the complete range of products at www.numens.com

Table 1 – DIP switch address settings

	Most significant nibble							
	0000	**1000**	**0100**	**1100**	**0010**	**1010**	**0110**	**1110**
0000	—[a]	16	32	48	64	80	96	112
1000	1	17	33	49	65	81	97	113
0100	2	18	34	50	66	82	98	114
1100	3	19	35	51	67	83	99	115
0010	4	20	36	52	68	84	100	116
1010	5	21	37	53	69	85	101	117
0110	6	22	38	54	70	86	102	118
1110	7	23	39	55	71	87	103	119
0001	8	24	40	56	72	88	104	120
1001	9	25	41	57	73	89	105	121
0101	10	26	42	58	74	90	106	122
1101	11	27	43	59	75	91	107	123
0011	12	28	44	60	76	92	108	124
1011	13	29	45	61	77	93	109	125
0111	14	30	46	62	78	94	110	—[a]
1111	15	31	47	63	79	95	111	—[a]

Least significant nibble (row labels, vertical)

[a] Address not permitted.