620 mini output module

Installation Instructions

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 output modules provide the interface to connect non-addressable output devices (such as audio/visual alarm devices) to Numens addressable control and indicating equipment. When used together with audio/visual alarm devices, up to 32 addressable output modules can be connected to each alarm zone loop. When used together with other output devices, up to 125 addressable output modules can be connected to each alarm zone loop.

These instructions provide trained installation personnel with details to install and commission 620 mini output 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 or Table 2 by adjusting the DIP switch settings located on the body.

Notes:

1. Addresses 0, 126 and 127 cannot be used.

2. Addresses 94 ~ 125 are available for audio/visual alarm devices when DIP switch 8 is set OFF.

3. When DIP switch 8 is OFF, DIP switch 7 is used to control whether the audio/visual alarm device is activated with a dedicated message from the control and indicating equipment (DIP switch 7 OFF), or whether the audio/visual alarm device is activated immediately when the control and indicating equipment enters the Alarm Condition (DIP switch 7 ON).

4. Addresses 1 ~ 125 are available for other devices when DIP switch 8 is set ON.

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.

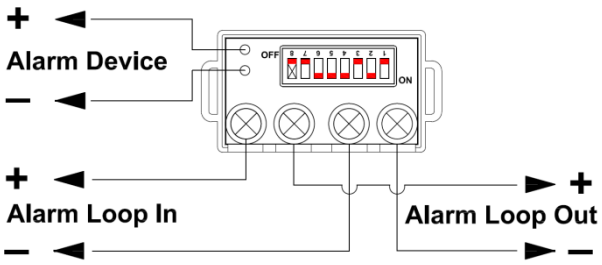


Fig. 1: 620 wiring connections

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

Commissioning

Mini Output Module

1. Ensure all the alarm signal services, releasing devices and extinguisher systems are disabled during the commissioning period.
2. Install device(s) (eg audio/visual alarm devices) in the non-addressable alarm zone and connect it to the alarm device conductors.
3. Connect power to the module.
4. Activate an alarm condition at the control and indicating equipment.
5. Check that the connected device(s) activates.
6. Reset the control and indicating equipment.
7. Check that the connected device(s) resets.
8. Place a short circuit across the module output terminals.
9. Check that the control and indicating equipment enters the fault warning condition.
10. Remove the short circuit.
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
31-0028	620 mini output module datasheet

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

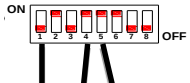
DIP switch 7

1. Set to OFF if the device is activated by a dedicated message from the control and indicating equipment.
2. Set to ON if the device is activated immediately when the control and indicating equipment enters the Alarm Condition (special alarm).

DIP switch 8

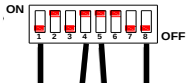
1. Set to OFF for audio/visual alarm devices.
2. Set to ON for other devices.

Table 1 – DIP switch address settings for audio/visual alarm devices



Least significant nibble	Most significant bit 0	Most significant bit 1
0000	94	110
1000	95	111
0100	96	112
1100	97	113
0010	98	114
1010	99	115
0110	100	116
1110	101	117
0001	102	118
1001	103	119
0101	104	120
1101	105	121
0011	106	122
1011	107	123
0111	108	124
1111	109	125

Table 2 – DIP switch address settings for other devices



Least significant nibble	Most significant nibble 0001	1001	0101	1101	0011	1011	0111	1111
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]

[a] Address not permitted.

Numens
55 Yunhui Road, Ningbo, Zhejiang, 315137 China