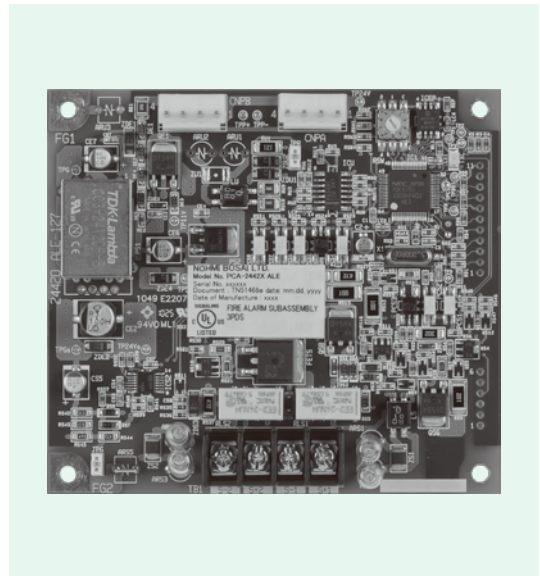


PCA-2442X ALE

ADDRESSABLE LOOP EXPANDER

Features

- One signal line circuit for 127 addressable devices maximum
- One simple LED for status indication
- Downsized unit
- Easy installation



Description

The Addressable Loop Expander (PCA-2442X ALE) is microprocessor based circuit assembly that provides an additional Signaling Line Circuit (SLC) to the Integlex Multicrest™ S508 fire alarm control panel. The SLC is power limited and supervised. The S508 FACP will support a total of three PCA-2442X ALE loop expanders. The PCA-2442X ALE is mounted above the main board assembly inside the cabinet. A wire harness connects the first PCA-2442X ALE to the main board and subsequent PCA-2442X ALE(s) are connected to the first.

The PCA-2442X ALE is configurable for NFPA Class A (Styles 6, 7) or Class B (Style 4). The PCA-2442X ALE only operates with the S508 FACP and utilizes the Nohmi line of detectors and modules.

No.	Item	Specification
1	Maximum 24VDC standby current	80mA
2	Maximum 24VDC alarm current	80mA
3	Applicable SLC wiring style	NFPA Class A (Style 7), Class A (Style 6), Class B (Style 4)
4	Maximum SLC loop resistance	Below 50Ω
5	Maximum SLC loop capacitance	0.5 μF
6	Operating temperature range	0°C to 49°C (32°F to 120°F)
7	Maximum no. of addressable device / loop	127 units
8	S508 connection	RS-485
9	Dimensions	95mm (3.74inches) (H) × 106mm (4.17 inches) (W) × 20mm (0.79inch) (D)

Installation

Install in accordance with installation manual.

Figure 1: Example of PCA-2442X ALE Cabinet Installation

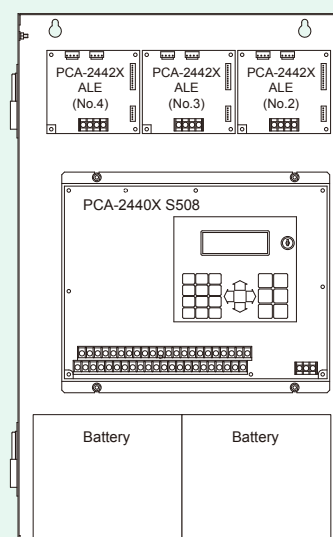


Figure 2: Wiring Example between PCA-2440X Main Board and PCA-2442X ALE Addressable Loop Expander

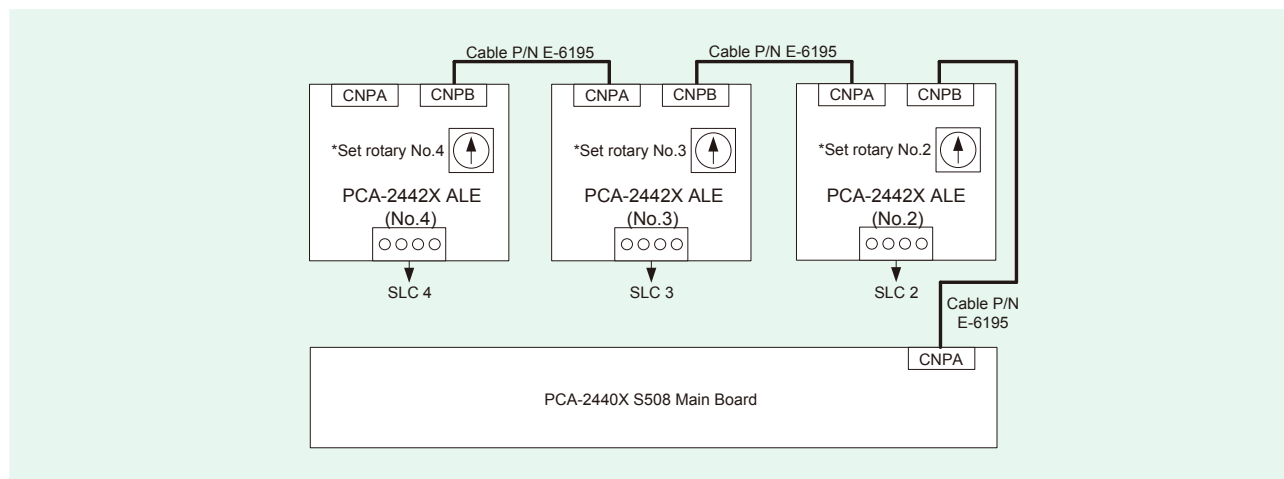


Figure 3: NFPA Style 4 Wiring Configuration of SLC

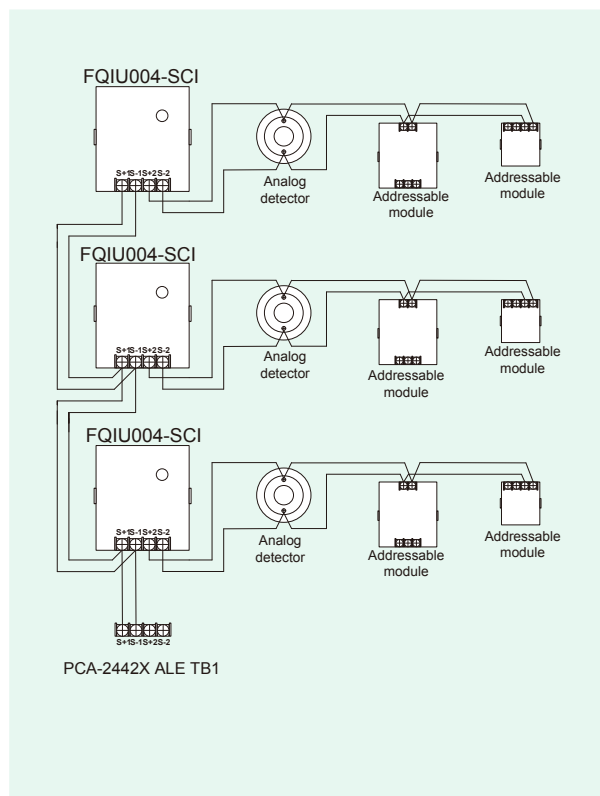
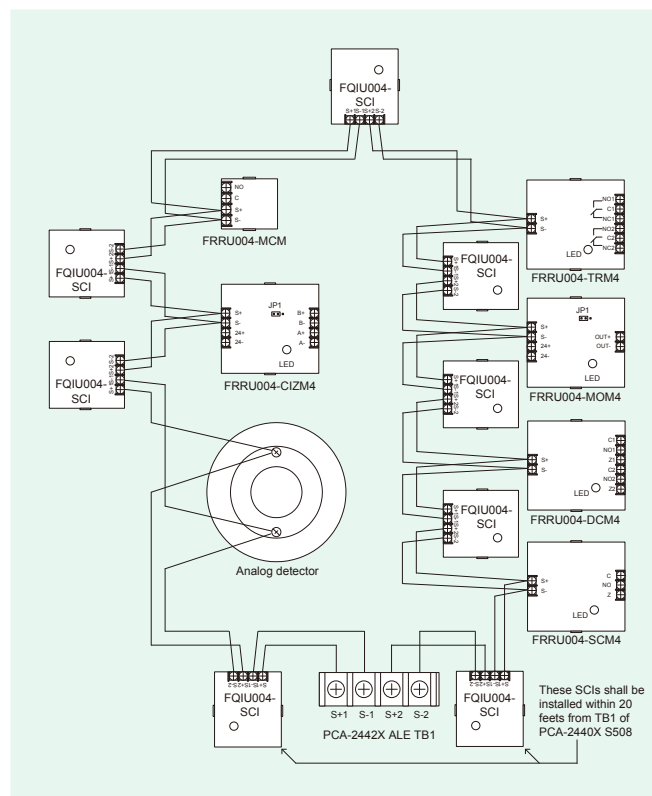


Figure 4: NFPA Style 7 Wiring Configuration of SLC



NOTICE

- These instructions do not purport to cover all the details or variations in the equipment described, nor provide for every possible contingency to be met in connection with installation, operation and maintenance.
- Specifications are subject to change without notice. Contact Nohmi before relying on above specifications.
- Actual performance is based on proper application of the product by a qualified professional.
- Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purpose, the matter should be referred to Nohmi or a distributor in your region.

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