

XAL127 Loop Expander Card Installation Sheet

XAL127 operation

The XAL127 loop expander card provides an additional device loop on the control panel. The card expands the control panel's device capability to 254 device addresses total, 127 per loop (any combination of detectors and modules).

XAL127 installation

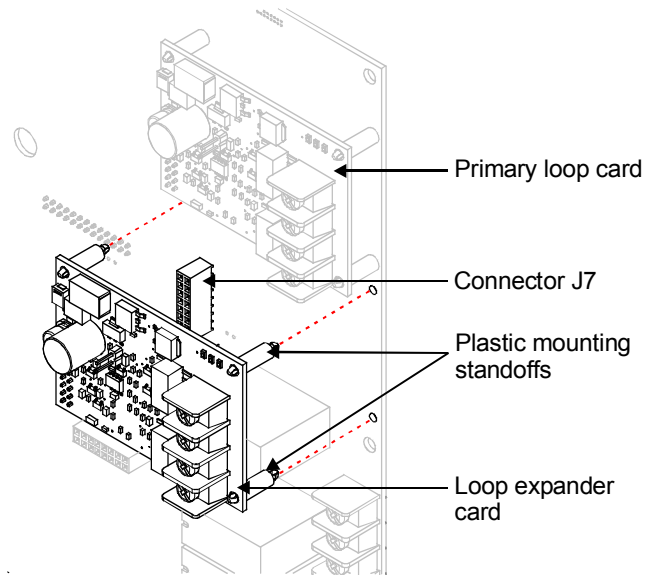
The loop expander card connects to connector J7 on the main circuit board.

Note: Installation limits are under the jurisdiction of local authority.

To install the loop expander card:

1. Power down the panel and disconnect the batteries.
2. Locate connector J7 on the main circuit board. It is below the primary loop card.
3. Connect the card to connector J7 as shown in the installation diagram. Make sure you properly align the connector pins and plastic mounting standoffs so that they lock into place.
4. Connect the field wiring. See "XAL127 wiring."
5. Power up the panel and connect the batteries.

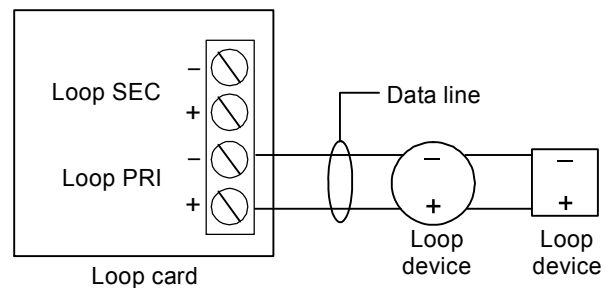
XAL127 installation



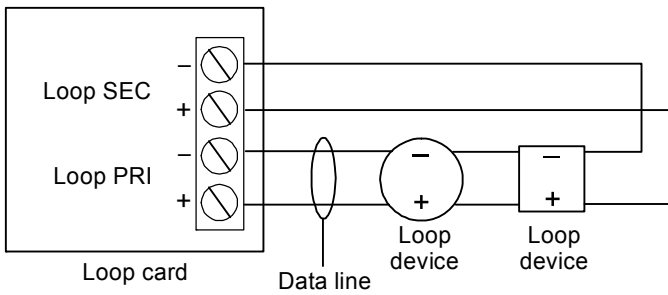
XAL127 wiring

The card provides either Class B or Class A wiring options.

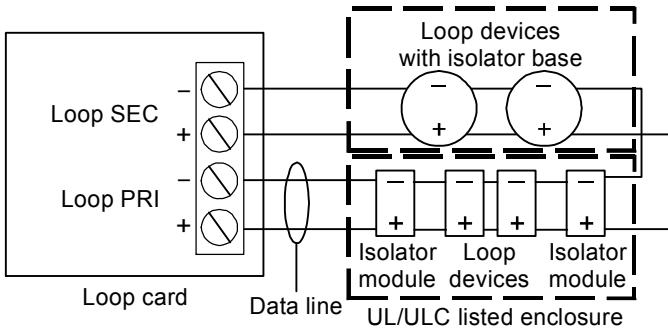
Class B wiring



Class A wiring (Style 6)



Class A wiring (Style 7)



XAL127 specifications

Device addresses on loop	127 maximum (any combination of detectors and modules)
Wiring	Class B or Class A
Operating voltage	24 VDC
Operating current (fully loaded loop)	Standby: 55 mA Alarm: 128 mA
Note: These ratings do not include the use of two-wire smoke modules.	
Communication line voltage	Max. 20.6 V peak-to-peak
Terminal rating	12 to 18 AWG (0.75 to 2.5 sq. mm)
Circuit current	0.5 A max.
Max. total loop resistance	66 Ω
Max. total loop capacitance	0.5 μF
Isolators	64 isolators maximum (total both isolator bases and modules)
Ground fault impedance	0 to 5 kΩ
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)

XAL127 LEDs

There are three LEDs on the card that indicate loop communication status. Primary is the primary communication circuit. Secondary is the Class A return communication when wiring is Class A. Comm is overall loop communication.

Loop card LEDs

