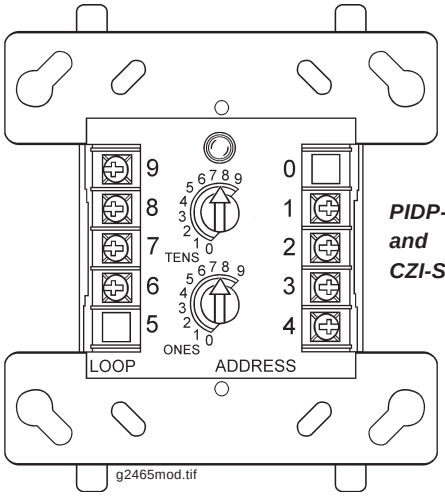
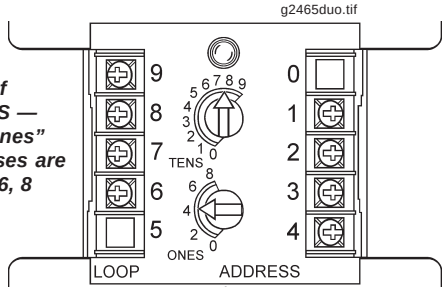
PIDP-SS, PID-SS, CZI-SS, and DPID-SS

Monitor Modules with Smart*Scan*™



PIDP-SS and CZI-SS



detail of DPID-SS — note "ones" addresses are 0, 2, 4, 6, 8 only

Description

Four different monitor modules are available for Gamewell intelligent controls with Smart*Scan*™ to suit a variety of applications. Monitor modules are used to supervise an initiating device circuit of dry-contact input devices, such as conventional heat detectors and pull stations, or monitor and power a circuit of two-wire smoke detectors (CZI-SS).

PIDP-SS — is a standard-sized module (typically mounts to a 4" [10.16 cm] square box) that supervises either a Style D (Class A) or Style B (Class B) circuit of dry-contact input devices.

PID-SS — is a miniature monitor module (a mere 1.3" (3.302 cm) H x 2.75" (6.985 cm) W x 0.5" (1.270 cm) D) used to supervise a Style B (Class B) circuit. Its compact design allows the PID-SS to often be mounted in a single-gang box behind the device it's monitoring.

CZI-SS — is a standard-sized module used to monitor and supervise compatible two-wire, 24 volt, smoke detectors on a Style D (Class A) or Style B (Class B) circuit.

DPID-SS — is a standard-sized dual monitor module used to monitor and supervise two independent Style B (Class B) initiating device circuits (IDCs) at two separate, consecutive addresses in intelligent, two-wire systems.

PIDP-SS Monitor Module

The **PIDP-SS Monitor Module** is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a two-wire or four-wire fault-tolerant Initiating Device Circuit (IDC) for normally-open-contact fire alarm and supervisory devices. The module has a panel-controlled LED indicator.

PIDP-SS Applications — Use to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact alarm activation devices. May also be used to monitor normally-open supervisory devices with ***special supervisory indication*** at the control panel. Monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 47K ohm End-of-Line Resistor (provided) terminates the Style B circuit. No resistor is required for supervision of the Style D circuit. Maximum IDC loop length is 2,500 ft./762 m (20 ohms maximum).

PIDP-SS Operation — Each PIDP-SS uses one of 99 available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A ***flashing LED*** indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to ***current limitations*** on the loop).

Features

PIDP-SS

- Built-in type identification automatically identifies this device as a monitor module to the control panel.
- Powered directly by two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry of address: 01 –99
- LED flashes green during normal operation (this is a programmable option) and latches on steady red to indicate alarm.
- Built-in type identification automatically identifies this device as a monitor module to the panel.

PID-SS

- Powered directly by two-wire FACP. No additional power required.
- High noise (EMF/RFI) immunity.
- Tinned, stripped leads for ease of wiring.
- Direct-dial entry of address: 01 – 99

CZI-SS

- Supports compatible two-wire smoke detectors.
- Supervises IDC wiring and connection of external power source.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry of address: 01 – 99
- LED flashes during normal operation (this is a programmable option).
- LED latches steady to indicate alarm on command from control panel.

Listings

Listings and approvals below apply to the basic PIDP-SS, PID-SS, CZI-SS and DPID-SS monitor modules. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest status.

- UL Listed: file S521.
- CSFM approved: file 7300-1288:170.

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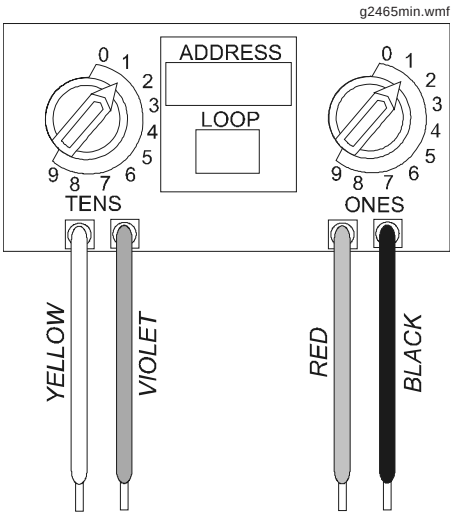
PID-SS Mini Monitor Module

The **PID-SS Mini Monitor Module** can be installed in a single-gang junction directly behind the monitored unit. Its small size and light weight allow it to be installed without rigid mounting. The PID-SS is intended for use in intelligent, two-wire systems where the individual address of each module is selected using rotary switches. It provides a two-wire initiating device circuit for normally-open-contact fire alarm and security devices.



PID-SS Applications — Use to monitor a single device or a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit/device is wired as an NFPA Style B (Class B) Initiating Device Circuit. A 47K ohm End-of-Line Resistor (provided) terminates the circuit.

PID-SS Operation — Each PID-SS uses one of 99 available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC).

CZI-SS Interface Module

The **CZI-SS Interface Module** is intended for use in intelligent, addressable systems, where the individual address of each module is selected using built-in rotary switches. This module allows intelligent panels to interface and monitor two-wire conventional smoke detectors. It transmits the status (normal, open, or alarm) of one full zone of conventional detectors back to the control panel. All two-wire detectors being monitored must be UL compatible with this module.

CZI-SS Applications — Use the CZI-SS to monitor a zone of two-wire smoke detectors. The monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. A 3.9 K ohm End-of-Line Resistor (provided) terminates the end of the Style B or D (class B or A) circuit (maximum IDC loop resistance is 25 ohms). Install ELR across terminals 8 and 9 for Style D application.

CZI-SS Operation — Each CZI-SS uses one of 99 available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

Specifications

PIDP-SS

Nominal operating voltage: 15 to 32 VDC.
Maximum current draw: 5.1 mA (LED on).
Maximum operating current: 375 µA (LED flashing).
EOL resistance: 47K ohms.
Temperature range: 32°F to 120°F (0°C to 49°C).
Humidity range: 10% to 93% noncondensing.
Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

PID-SS

Nominal operating voltage: 15 to 32 VDC.
Maximum operating current: 375 µA.
EOL resistance: 47K ohms.
Temperature range: 32°F to 120°F (0°C to 49°C).
Humidity range: 10% to 93% noncondensing.
Dimensions: 1.3" (3.302 cm) high x 2.75" (6.985 cm) wide x 0.5" (1.270 cm) deep.
Wire length: 6" (15.24 cm) minimum.

CZI-SS

Nominal operating voltage: 15 to 32 VDC.
Maximum current draw: 5.1 mA (LED on).
Maximum operating current: 255 µA (LED flashing).
EOL resistance: 3.9K ohms.
External supply voltage *(between Terminals T3 and T4):* ***DC voltage:*** 18 to 28 volts power limited. ***Ripple voltage:*** 0.1 VRMS maximum. ***Current:*** 90 mA per module maximum.
Temperature range: 32°F to 120°F (0°C to 49°C).
Humidity range: 10% to 93% noncondensing.
Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4" (10.16 cm) square x 2.125" (5.398 cm) deep box.

DPID-SS

Normal operating voltage range: 15 to 32 VDC.
Maximum current draw: 5.7 mA (LED on).
Maximum operating current: 750 µA (LED flashing).
EOL resistance: 47K ohms.
Maximum IDC wiring resistance: 1,500 ohms.
Temperature range: 32° to 120°F (0° to 49°C).
Humidity range: 10% to 93% (non-condensing).
Dimensions: 4.5" (11.43 cm) high x 4" (10.16 cm) wide x 2.125" (5.398 cm) deep.

DPID-SS Dual Monitor Module

The **DPID-SS Dual Monitor Module** is intended for use in intelligent, two-wire systems. It provides two independent two-wire initiating device circuits (IDCs) at two separate, consecutive addresses. It is capable of monitoring normally open contact fire alarm and supervisory devices; or either normally open or normally closed security devices. The module has a single panel-controlled LED. ***NOTE:*** *The DPID-SS provides two Style B (Class B) IDC circuits* ***ONLY****. Style D (Class A) IDC circuits are* ***NOT*** *supported in any application.*

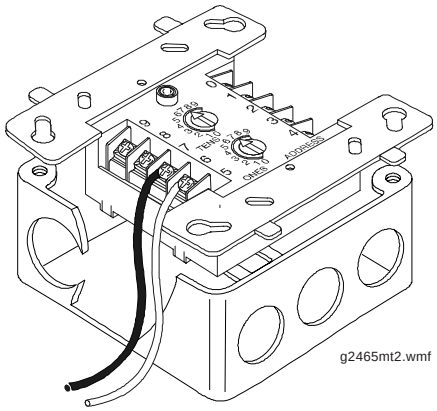
DPID-SS Applications — The DPID-SS automatically assigns itself to two addressable points, starting with the original address. For example, if the DPID-SS is set to address “56”, then it will automatically assign itself to addresses “56” and “57”. ***NOTE:*** *“ones” addresses on the DPID-SS are 0, 2, 4, 6, or 8* ***only****.* Terminals 6 and 7 use the first address, and terminals 8 and 9 use the second address.

⚠CAUTION!

Avoid duplicating addresses on the system.

Mounting Diagram

for standard-sized modules



Installation

PIDP-SS, DPID-SS, and CZI-SS modules mount directly to a standard 4" (10.16 cm) square, 2.125" (5.398 cm) deep, electrical box. They may also be mounted to the SMB500 surface-mount box. Mounting hardware and installation instructions are provided with each module. All wiring must conform to applicable local codes, ordinances, and regulations. These modules are intended for power-limited wiring only.

The PID-SS module is intended to be wired and mounted without rigid connections inside a standard electrical box. All wiring must conform to applicable local codes, ordinances, and regulations.

Product Line Information

PIDP-SS	Monitor module.
PID-SS	Monitor module, miniature.
CZI-SS	Monitor module, two-wire detectors
DPID-SS	Monitor module, dual, two independent Class B circuits.
SMB500	Optional surface-mount backbox.

Wiring Diagrams

The following wiring diagrams are included:

1) **DPID-SS**, typical dual two-wire Style B initiating device circuit configuration.

2) **PID-SS**, typical two-wire Style B initiating device circuit configuration.

3) **PIDP-SS**, typical two-wire initiating circuit configuration, NFPA Style B.

4) **PIDP-SS**, typical four-wire fault-tolerant initiating circuit configuration, NFPA Style D.

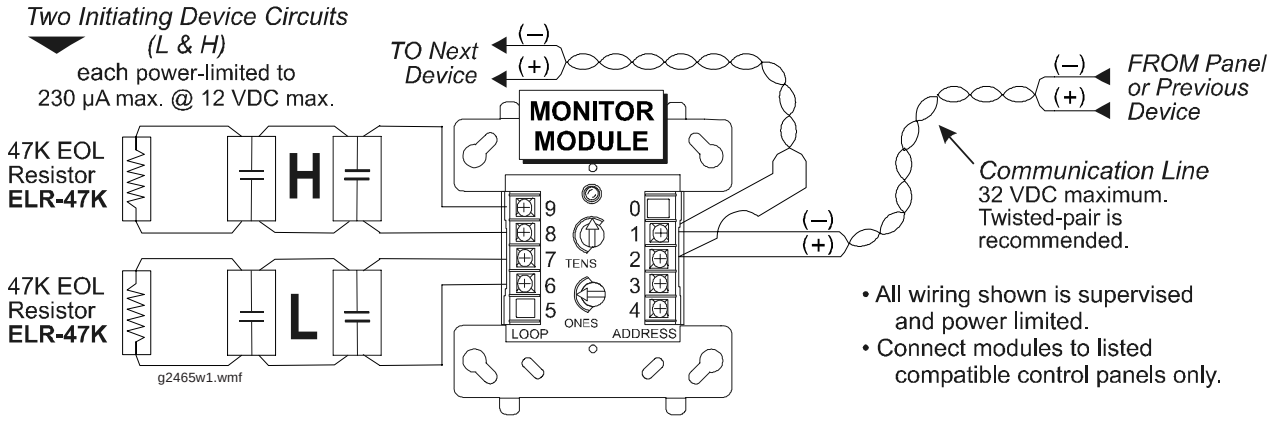
5) **PIDP-SS**, typical two-wire initiating circuit configuration for security systems (with alarm versus short capability).

6) **CZI-SS**, interface two-wire conventional detectors, NFPA Style B.

7) **CZI-SS**, interface two-wire conventional detectors, NFPA Style D.

Fig. 1 ***DPID-SS: Typical dual two-wire Style B initiating device circuit configuration.***

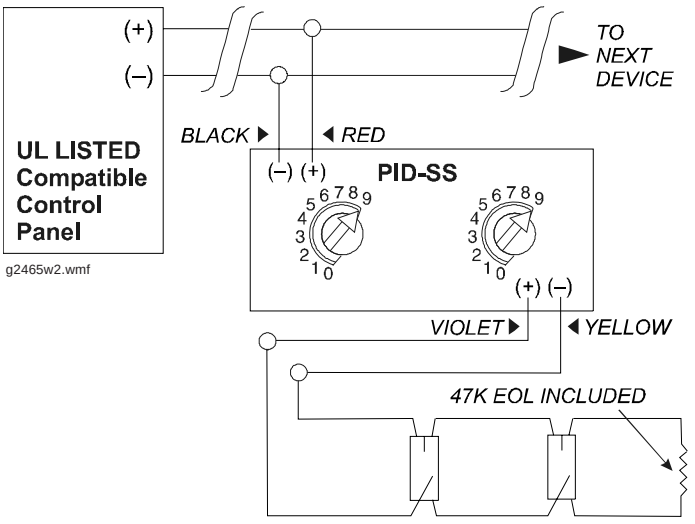
WIRING DIAGRAM: DPID-SS



- *ANY NUMBER* of UL Listed contact closure devices may be used.
- *DONOT MIX* fire alarm initiating, supervisory, or security deviceson the same circuit.
- Install contact closure devices per manufacturer's installation instructions.

Fig. 2 ***PID-SS: Typical two-wire Style B initiating device circuit configuration.***

WIRING DIAGRAM: PID-SS



WIRING DIAGRAMS THIS PAGE: PIDP-SS

- Connect modules to listed compatible Gamewell control panels only.
- All wiring shown is supervised and power limited.
- Install contact closure devices per manufacturers' installation instructions.
- Any number of UL-listed contact closure devices may be used.
- ***DO NOT MIX*** fire alarm initiating, supervisory, or security devices on the same circuit.

Fig. 3 ***PIDP-SS: Typical two-wire initiating device circuit configuration, NFPA Style B.***

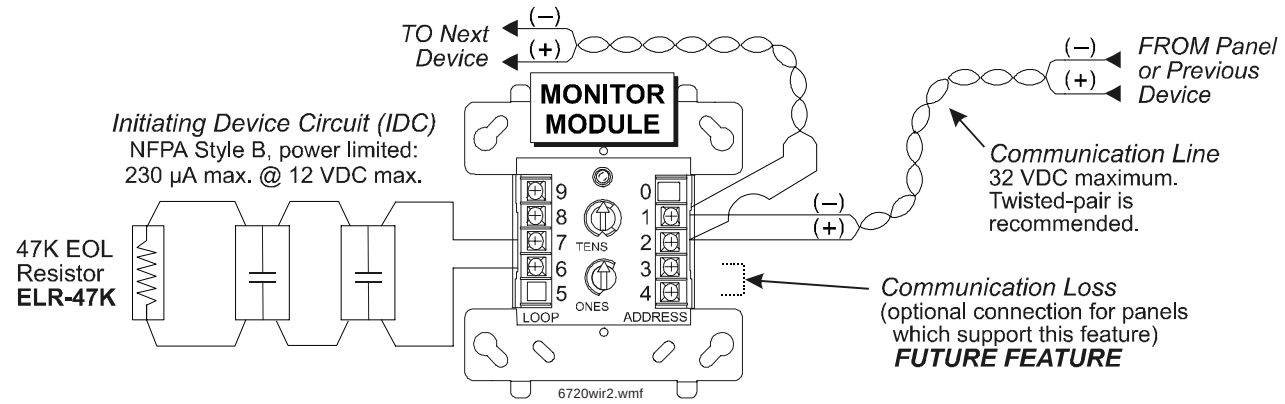


Fig. 4 ***PIDP-SS: Typical four-wire fault-tolerant initiating circuit configuration, NFPA Style D.***

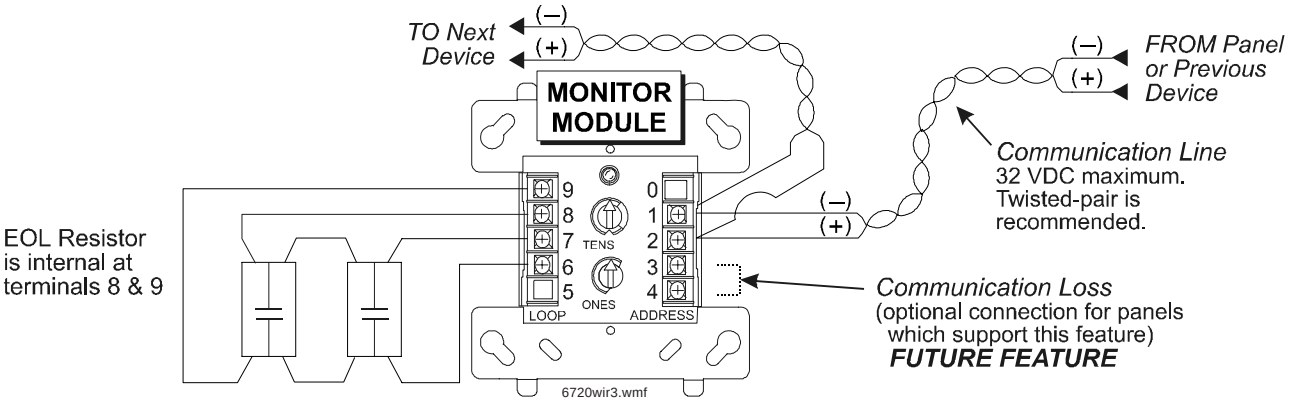
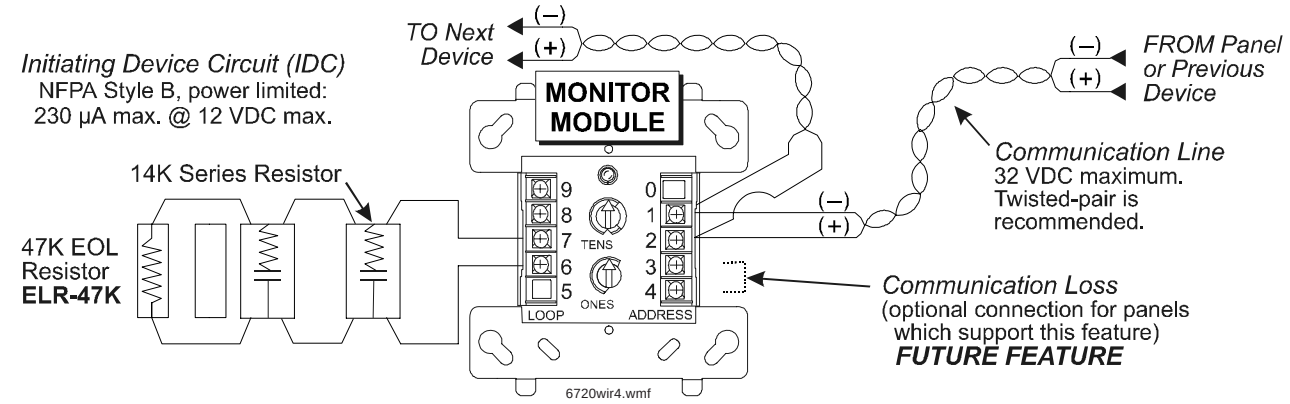


Fig. 5 ***PIDP-SS: Typical two-wire initiating circuit configuration for security systems (with alarm versus short capability).***



- Connect modules to listed compatible control panels only.
- Terminal wiring must be power limited.
- ***DO NOT MIX*** fire alarm initiating, supervisory, or security devices on the same circuit.
- ***DO NOT LOOP*** wire under terminals. Break wire run to provide supervision of connections.
- Detectors must be UL listed compatible with module.
- Install detectors per manufacturers' installation instructions.
- Power to the interface module must be externally switched to reset the detectors. An **RCE-SS** relay control module can be used to switch power from a standard power supply.

WIRING DIAGRAMS THIS PAGE: CZI-SS

Fig. 6 ***CZI-SS: Interface two-wire conventional detectors, NFPA Style B.***

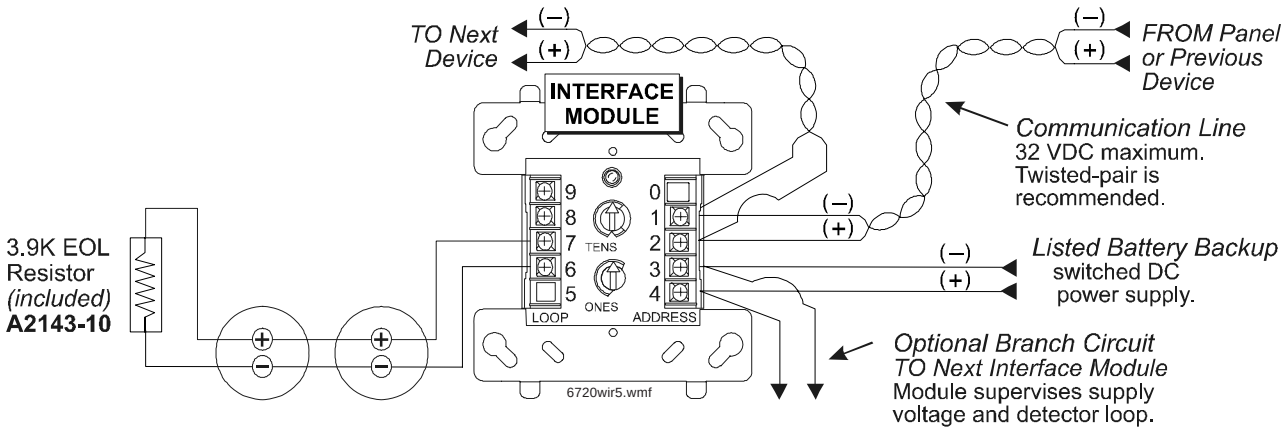
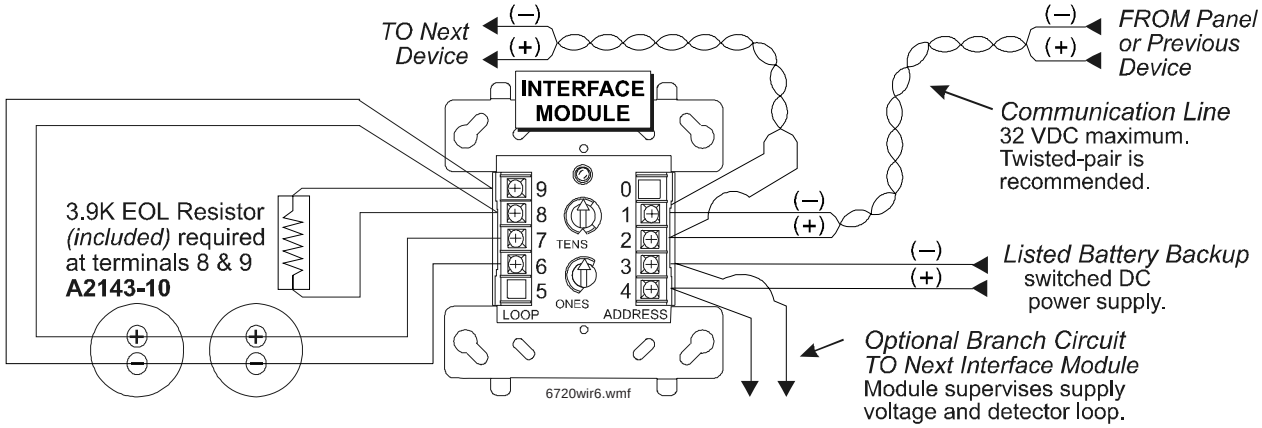


Fig. 7 ***CZI-SS: Interface two-wire conventional detectors, NFPA Style D.***



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