Honeywell

ADEMCO 4190SN

V-Plex® Two-Zone (SIM)
Serialized Interface Module

INSTALLATION AND SETUP GUIDE

General Information

The ADEMCO 4190SN V-Plex® is a 2-zone expander, which allows use of the available expansion zones provided by controls that support V-Plex loop devices. The 4190SN consists of two protection loops, known as the left (primary) and right (secondary) loops.

The left loop can be used for:

- closed-circuit devices, with or without EOLR supervision

- open-circuit devices with EOLR supervision

- fast-response (10 millisecond) devices.

Follow the chart to the right for cutting the correct jumpers and choosing the correct resistor when using the left loop.

The right loop can be used for:

- closed-circuit devices only

- has no EOLR supervision

- 400 millisecond response time.

The jumpers do not affect the operation of the right loop. The right loop cannot be used alone.

Supervision

The tamper/supervision response of the 4190SN is determined by the zone response type assigned to the left loop zone. While the system is armed, tamper/supervisory faults will report as alarms if the left loop zone is assigned a burglary response type and will report as troubles if the left loop zone is assigned a non-burglary response type (i.e., fire, panic, aux). While the system is disarmed, tamper/supervisory will always report as troubles.
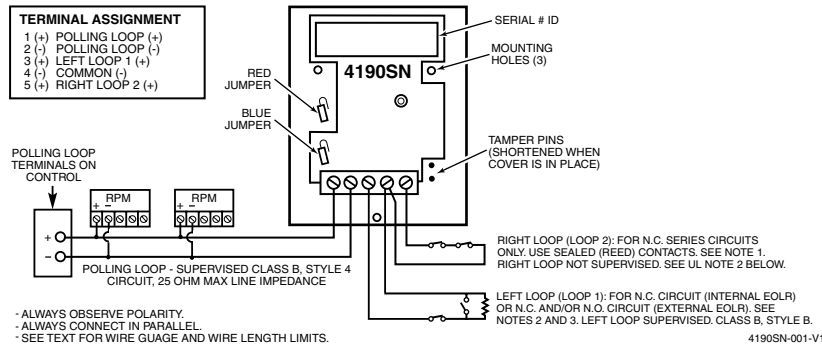
Programming Notes

Program the unit like any other zone, according to the alarm control's installation instructions. Enter the following information when prompted for in programming:
"INPUT TYPE" = "6" (SL—Serial Number Device)

Left Zone = Loop 1
Right Zone = Loop 2

JUMPERS	USAGE (APPLIES TO LEFT ZONE – LOOP 1 ONLY)
RED	Cut for fast response (10msec)
BLUE	Cut for use with no EOLR (closed-circuit only). Doing this automatically puts an internal 10K ohm resistor in series with the zone.
NONE CUT	Use the 10K ohm resistor provided, with switches in either an open-circuit or closed circuit configuration. The 4190SN draws 2mA from the V-Plex loop in this mode.

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TERMINAL ASSIGNMENT
1 (+)  POLLING LOOP (+)
2 (-)  POLLING LOOP (-)
3 (+)  LEFT LOOP 1 (+)
4 (-)  COMMON (-)
5 (+)  RIGHT LOOP 2 (+)
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SERIAL # ID

MOUNTING HOLES (3)

RED JUMPER

4190SN

BLUE JUMPER

TAMPER PINS (SHORTENED WHEN COVER IS IN PLACE)

POLLING LOOP TERMINALS ON CONTROL

RPM

RPM

RIGHT LOOP (LOOP 2): FOR N.C. SERIES CIRCUITS ONLY. USE SEALED (REED) CONTACTS. SEE NOTE 1. RIGHT LOOP NOT SUPERVISED. SEE UL NOTE 2 BELOW.

POLLING LOOP - SUPERVISED CLASS B, STYLE 4 CIRCUIT, 25 OHM MAX LINE IMPEDANCE

LEFT LOOP (LOOP 1): FOR N.C. CIRCUIT (INTERNAL EOLR) OR N.C. AND/OR N.O. CIRCUIT (EXTERNAL EOLR). SEE NOTES 2 AND 3. LEFT LOOP SUPERVISED. CLASS B, STYLE B.

- ALWAYS OBSERVE POLARITY.
- ALWAYS CONNECT IN PARALLEL.
- SEE TEXT FOR WIRE GUAGE AND WIRE LENGTH LIMITS.

4190SN-001-V1

UL Notes

1. The 4190SN is designed to meet the following UL standards: UL609 Commercial Burglary, UL864 Commercial Fire, UL985 Household Fire, and UL1023 Household Burglary

2. The right loop may not be used for Commercial Fire or UL Commercial Burglary installations.

3. For Commercial Fire usage: Use N.O. contacts on the left loop. Supervise (style B) this loop using Model #EOL100 Fire Listed 10K ohm EOLR.

4. For UL Commercial Burglary Usage: Use N.O. or N. C. contacts on the left loop. Supervise using the 10K ohm EOLR supplied.

5. All circuits are power-limited.

6. For dry indoor use only.

7. Do not install in air-handling spaces.

Note: See control panel instructions for minimum earth ground impedance.

Specifications

Physical:

Width: 2-1/8" (53mm)
Height: 3-1/4" (81mm)
Depth: 1" (25mm)

Electrical:

Voltage Input: 8 – 12VDC
Current Drain: 2mA

Max. Loop Wire Run: 100'
Wire Gauge: 18-22 AWG
Max. Loop Line Impedance: 300 ohm max.
REFER TO THE INSTALLATION INSTRUCTIONS FOR THE CONTROL PANEL WITH WHICH THE DEVICE IS USED, FOR DETAILS ON LIMITATIONS OF THE ENTIRE ALARM SYSTEM.

NFPA-72 Compliant

For the latest warranty information, please go to:
http://www.security.honeywell.com/hsc/resources/wa/index.html

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