

## Table of Contents

<b>1. INTRODUCTION.....</b>	<b>1</b>
<b>2. INSTALLATION .....</b>	<b>1</b>
2.1 MOUNTING AND WIRING REQUIREMENTS .....	1
2.2 ELECTRICAL SPECIFICATIONS.....	1
2.3 TERMINAL BLOCK DESCRIPTION.....	2
2.4 PIN CONNECTORS .....	3
2.4.1 P1 Connector .....	3
2.4.2 P2 Connector .....	3
2.4.3 P3 Connector .....	4
2.4.4 P4 Connector .....	5

---

# 1. Introduction

---

The 4180 is compatible with the following Silent Knight models:

- 2615
- 4720
- 5204
- 5207

If you are connecting the 4180 to one of these compatible modules, the module installation manual for complete information.

---

## 2. Installation

---

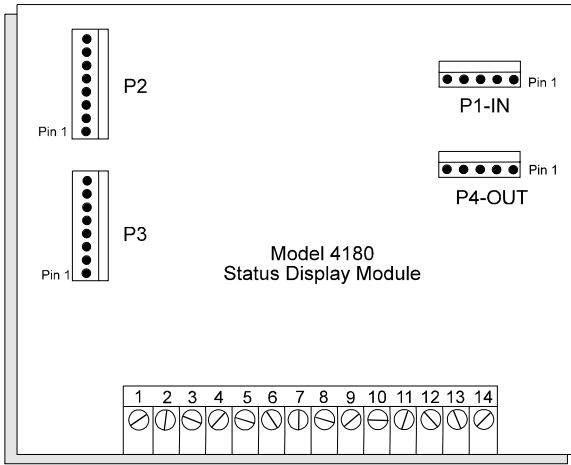
### 2.1 Mounting and Wiring Requirements

The 4180 must be mounted within 3 feet of the control panel and wired in conduit.

### 2.2 Electrical Specifications

<b>Power requirements:</b>	24 VDC
<b>Current requirements:</b>	24 mA standby 140 mA alarm

## Model 4180 Status Display Module



**Figure 1: 4180 Board Layout**

### 2.3 Terminal Block Description

Terminal #	Description
1	Relay #1 Coil
2	Relay #1 Common
3	Relay #1 Normally Open Contact
4	Relay #2 Coil
5	Relay #2 Common
6	Relay #2 Normally Open Contact
7	Relay #3 Coil
8	Relay #3 Common
9	Relay #3 Normally Open Contact
10	Relay #4 Coil
11	Relay #4 Common
12	Relay #4 Normally Open Contact
13	Circuit Ground
14	+12 VDC

## 2.4 Pin Connectors

The following sections explain the purpose of each 4180 connector.

### 2.4.1 P1 Connector

**Table 1: P1 Connector Description**

Pin #	Description
1	Circuit Ground
2	+12 VDC
3	Enable Input
4	Clock Input
5	Serial Data Input

### 2.4.2 P2 Connector

Connector P2 is an active high output rated at +12 VDC. Each output can provide up to 100 mA of current. Do **not** exceed 700 mA total current on this connector. P2 outputs can also be used to activate the relays on the circuit board.

**EXAMPLE:**

In this example, Zone 8 of a 4720 panel activates a bell using Relay #1.

Connect Pin 1 from Connector P2 to Terminal 1 on the 4180. Connect one side of the bell to Terminal 13 (Circuit Ground) and the other side of the bell to Terminal 2 (Relay #1 Common). Connect Terminal 14 (+12 VDC) to Terminal 3 (Relay #1 N.O. Contact).

When Zone 8 goes into alarm, it will cause P2, Pin 1 to go high, activating Relay #1. Power will be supplied to the bell and an audible signal will be sounded.

**Table 2: P2 Connector Description**

Pin #	2615, 5204, 5207	4720
1	Zone 1	Zone 8
2	Zone 2	Zone 7
3	Zone 3	Zone 6
4	Zone 4	Zone 5
5	Zone 5	Zone 4
6	Zone 6	Zone 3
7	Zone 7	Zone 2
8	Zone 8	Zone 1

### 2.4.3 P3 Connector

Connector P3 is an active high output rated at +12 VDC. Each output can provide up to 100 mA of current. Do **not** exceed 700 mA total current on this connector. P3 outputs can also be used to activate the relays on the circuit board.

**Table 3: P3 Connector Description**

Pin #	2615	4720	5204, 5207
1	Trouble	Trouble	Trouble Zone 1
2	Chime	Auxiliary	Trouble Zone 2
3	Any Alarm	Alarm	Trouble Zone 3
4	Armed	Armed	Trouble Zone 4
5	Holdup	Ready	Trouble Zone 5
6	Intrusion	Intrusion	Trouble Zone 6
7	Special	Emergency	Trouble Zone 7
8	Fire	Fire	Trouble Zone 8

## 2.4.4 P4 Connector

**Table 4: P4 Connector Description**

<b>Pin #</b>	<b>Description</b>
1	Circuit Ground
2	+12 VDC
3	Enable Input
4	Clock Output
5	Serial Data Output