SILENT KNIGHT

MODEL 4180

STATUS DISPLAY MODULE

WIRING INSTRUCTIONS

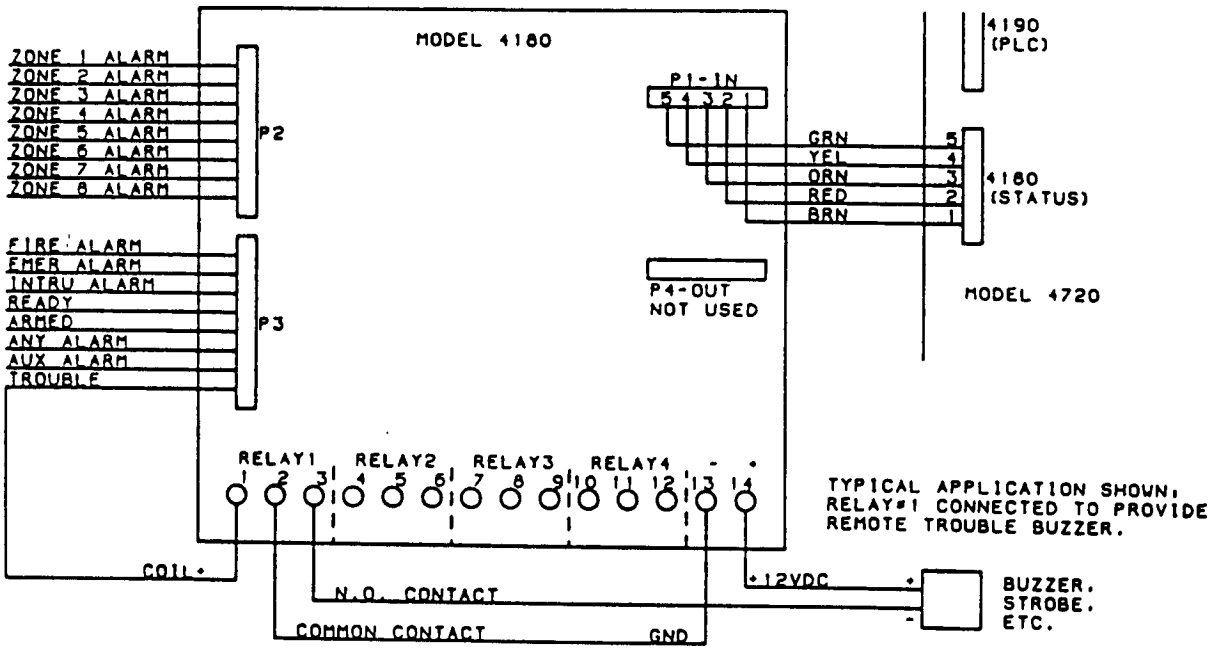
REVISED JUNE 1990

PART NUMBER 150445

Table of Contents

1 MODEL 4180 INSTALLATION PROCEDURE

The Silent Knight Model 4180 Status Display Module may be used to interface the Model 4720 to Long Range RF and Derived Channel communications systems. Figure 1A shows how to wire the 4180.



MODEL 4180 CONNECTION

4180 TERMINAL	DESCRIPTION	
1	RELAY#1	COIL
2		COMMON CONTACT
3		NORMALLY OPEN CONTACT
4	RELAY#2	COIL
5		COMMON CONTACT
6		NORMALLY OPEN CONTACT
7	RELAY#3	COIL
8		COMMON CONTACT
9		NORMALLY OPEN CONTACT
10	RELAY#4	COIL
11		COMMON CONTACT
12		NORMALLY OPEN CONTACT
13	CIRCUIT GROUND	
14	+12VDC (SAME AS 2820 TERMINAL 4)	

FIGURE 1A: MODEL 4180 STATUS DISPLAY MODULE

The following sections explain the purpose of each connector on the 4180.

2 CONNECTOR P1

Connector P1 is used to connect the 4180 to the control panel.

PIN #	DESCRIPTION	4720 PIN #
1	CIRCUIT GROUND	PIN 1
2	+12 V_{DC}	PIN 2
3	ENABLE INPUT	PIN 3
4	CLOCK INPUT	PIN 4
5	SERIAL DATA INPUT	PIN 5

Connectors P2 and P3 are Active High outputs at +12 V_{DC}. Each output can provide up to 100 mA of current. DO NOT exceed 700 mA of current on connector P2 or P3. These outputs may also be used to activate the four relays on the printed circuit board.

EXAMPLE: In this example we will use Zone 8 of a 4720 panel to activate a bell using relay #1. Connect pin 1 of 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 V_{DC}) to terminal 3 (relay #1 N.O. Contact). When zone 8 goes into alarm on the 4720, it will cause pin 1 of connector P2 to go high, activating relay #1. Power is now supplied to the bell and an audible signal will be sounded.

The tables below show the data that may be obtained from each output. These outputs are active high, 12 V_{DC}, 50 mA max. each.

3 CONNECTOR P2

PIN #	4720 DATA	4721 DATA
1	ZONE 8	AREA 8
2	ZONE 7	AREA 7
3	ZONE 6	AREA 6
4	ZONE 5	AREA 5
5	ZONE 4	AREA 4
6	ZONE 3	AREA 3
7	ZONE 2	AREA 2
8	ZONE 1	AREA 1

4 CONNECTOR P3

PIN #	4720 DATA	4721 DATA
1	TROUBLE	TROUBLE
2	AUXILIARY	AUXILIARY
3	ALARM	ALARM
4	ARMED	ALL ARMED
5	READY	DURESS
6	INTRUSION	INTRUSION
7	EMERGENCY	EMERGENCY
8	FIRE	FIRE

5 CONNECTOR P4

NOTE: Connector P4 is not used with the Model 4720. The pin descriptions are shown below for general information purposes only.

PIN #	DESCRIPTION
1	Circuit ground
2	+12 V_{DC}
3	Enable output
4	Clock output
5	Serial data output

6 TERMINAL BLOCK DESCRIPTION

These terminals are for obtaining "dry contact closures" when the corresponding coil input is connected to one of the outputs on P2 or P3.

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 V_{DC}