

Application

The DS100 Door Sentry & Emergency Alarm System is a zoned, audible-visual alarm-indicating system designed to monitor doors, windows, or any devices using open or closed contact switches, including momentary emergency push buttons.

Interruption or making of a circuit causes the specific light indicator to latch on at the master panel and generate an alarm tone which may be silenced without cancelling the visual signal. The visual signal can only be reset at the master.

The PK2019/A Power & Control Unit provides power, control and signalling circuits, plus a normally open and a normally closed auxiliary contact. Screw terminals are provided for wire termination. The PK2019/A is surface mount, and is enclosed in an extruded aluminum case (PK2019) or a flame-retardant (UL[®] 94V-0) plastic case (PK2019A).

Equipment Installation

PK2019/A Power & Control Unit

Terminal R1 is common, Terminal R2 is Normally Open (NO), and Terminal R3 is Normally Closed (NC). The PK2019/A Power & Control Unit provides a full-form "C" dry contact.

System Components

Model and Description

- *DS100/4 Speaker Panel with 4 lights
- *DS100/8 Speaker Panel with 8 lights
- *DS100/12 Speaker Panel with 12 lights
- *DS100/16 Speaker Panel with 16 lights
- *DS100/20 Speaker Panel with 20 lights
(DS100-series includes test button and tone-off button & light.)

- *AM100/24 Add-on 24 lights
- *AM100/28 Add-on 28 lights
- *AM100/32 Add-on 32 lights
- *AM100/36 Add-on 36 lights
(AM100-series includes test button)

- PK2019/A Power & Control Unit
- SS106 Transformer
- NO or NC contact switches
- OF200-series Frame
- OH200-series Housing (Flush)
- OH300-series Housing (Surface)
- IH300-series Desk Housing

* These panels can be special ordered for parallel annunciation by adding suffix "P" to the part number.

Figure 1—Housing and Frame Dimension Chart

*Number of Zones	Flush	Width Cut-Out	Surface	Width Overall	Frame	Width Overall	Desk	Width
4–20	OH201	4-1/2"	OH301	6-1/8"	OF201	6-1/4"	IH302	9-1/2"
24–56	OH202	8-1/2"	OH302	10-1/8"	OF202	10-1/4"	IH302	9-1/2"
60–92	OH203	12-1/2"	OH303	14-1/8"	OF203	14-1/4"	IH303	13-1/2"
96–128	OH204	16-1/2"	OH304	18-1/8"	OF204	18-1/4"	IH304	17-1/2"
132–164	OH205	20-1/2"	OH305	22-1/8"	OF205	22-1/4"	IH305	21-1/2"
168–200	OH206	24-1/2"	OH306	26-1/8"	OF206	26-1/4"	IH306	25-1/2"

IH300 Series desk cabinets..... height: 6"..... depth: 17"
 OH200 Series wall cut-out..... height: 16-1/8"..... depth: 3-7/8"
 OH300 Series overall height: 17-3/4"..... depth: 3-5/8"
 OF200 Series overall..... height: 17-3/4"..... depth: 2-1/2"

*Available only in groups of four.

Figure 2—PK2019A Tone Volume Shunt Settings



Figure 3—PK2019/A with PM023/4 Module and Normally Closed Switches

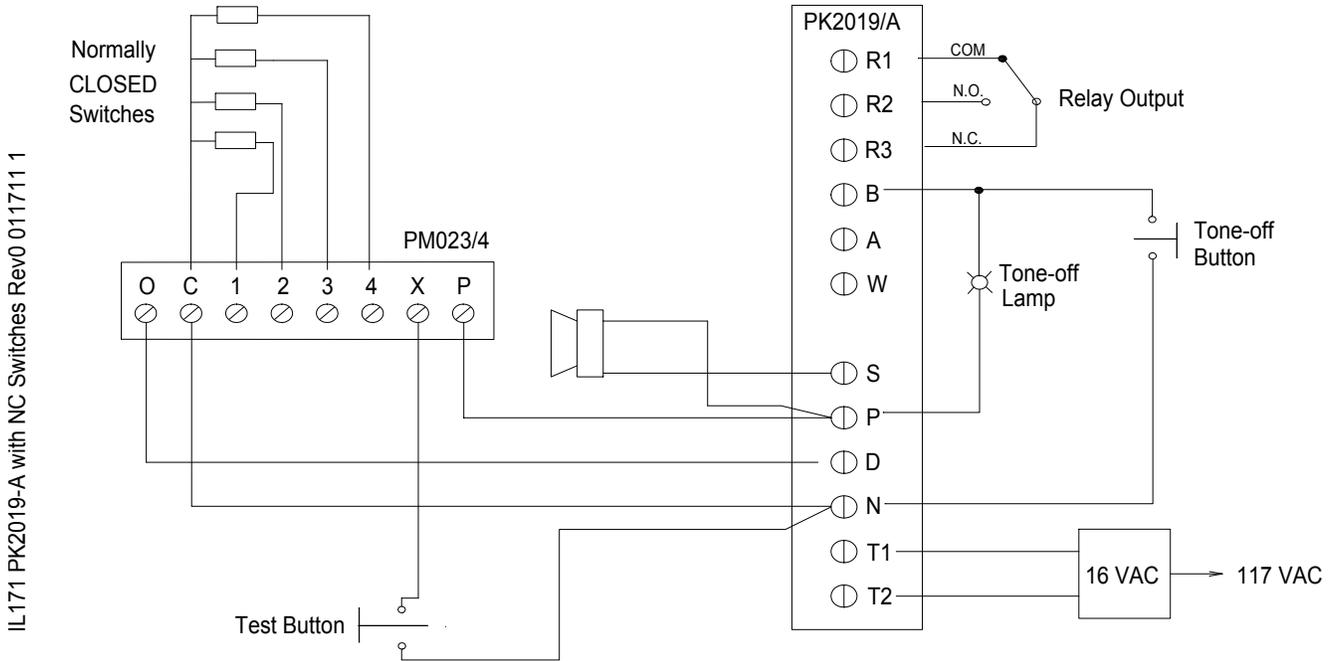


Figure 4—DS100 in Parallel with CM800 Panel and Normally Closed Switches

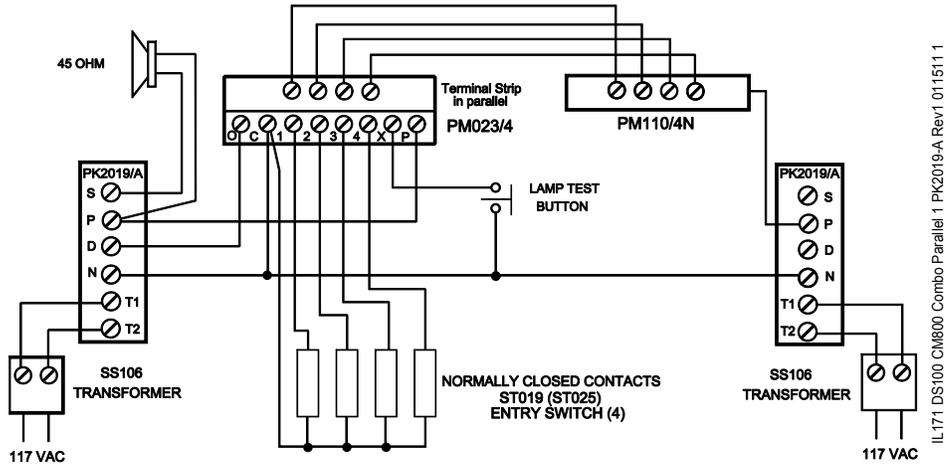
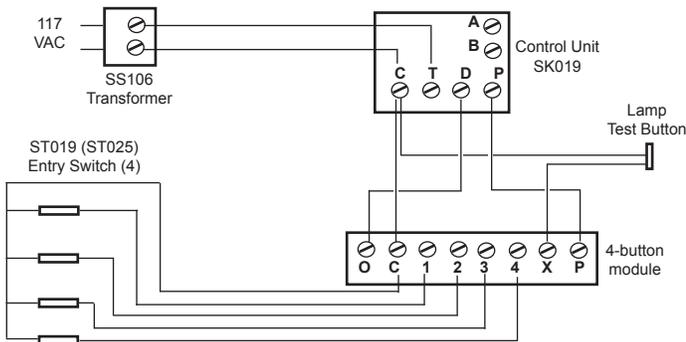


Figure 5—Typical Connection Diagram for Closed Circuit Detection

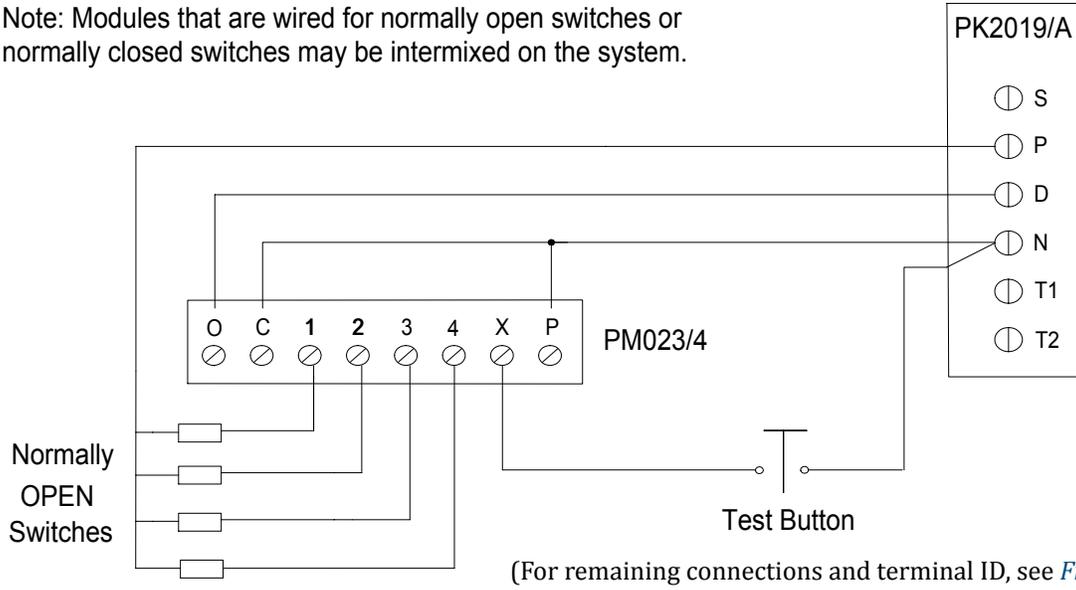


Notes:

1. #18 wire recommended
2. Detection switches must be closed during normal supervision
3. Use 16 volts VAC for power

Figure 6—PK2019/A with PM023/4 Module and Normally Open Switches

Note: Modules that are wired for normally open switches or normally closed switches may be intermixed on the system.



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Figure 7—DS100 in Parallel with CM800 Panel and Normally Open Switches

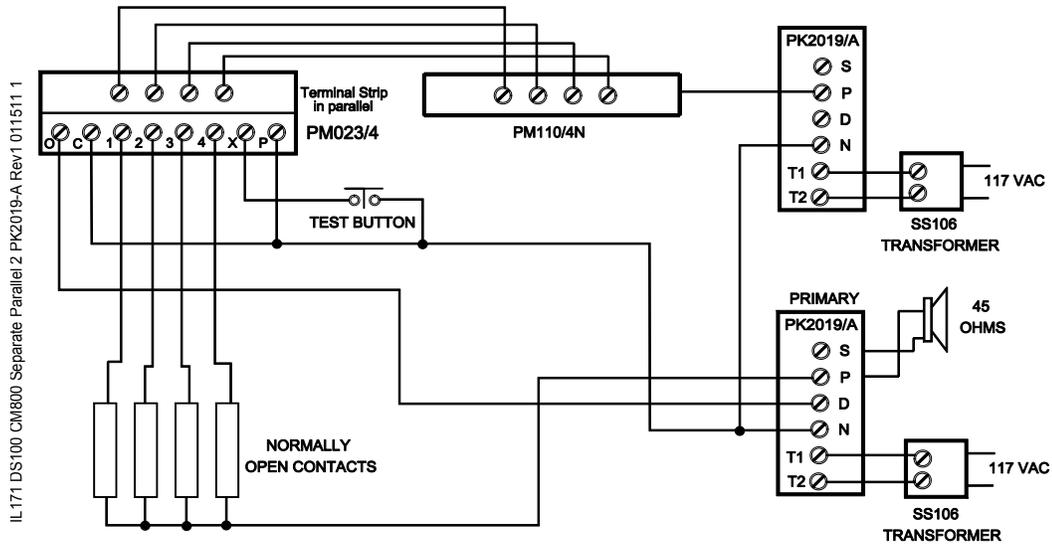
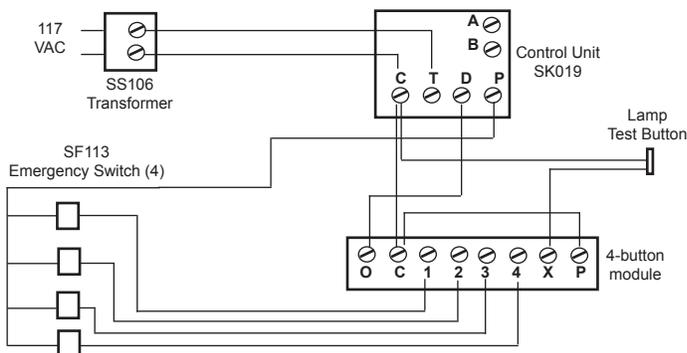


Figure 8—Typical Connection Diagram for Open Circuit Detection



Notes:

1. #18 wire recommended
2. Detection switches must be open during normal supervision
3. Use 16 volts VAC for power