////ESPRIT728 PROGRAMMING GUIDE

USER FRIENDLY

SOFTWARE VERSION 1.0

BENCH TEST

Refer to Connection (Wiring) Diagram.

Note: **[ ]** indicates keypad key i.e. **[2]**, **[ENTER]**. **[CLEAR]**, **[MEM].** Shaded addresses are not applicable. Any values must be entered i.e. **[2ND]**.

1. To set zones in non-alarm state (keypad zone lights off), install **green** (1K OHM) resistors across zone terminals.
2. Connect keypad. Install **green** (1K OHM) resistor across keypad zone.
3. Connect sounder or install **green** (1K OHM) resistor across "BELL" terminal.
4. Connect AC, connect battery.
5. **[TRBL]** key illuminates, due to timer loss. Push **[TRBL]** to view trouble conditions, (see Keypad Trouble Display).
6. All keypad lights should be off and keypad should respond to Master code arming and disarming.
7. Master Code: *default 474747.*
8. Keypad Programming *(default installer code 747474).*

N.B.: If serial communication is required (i.e. the panel is used with another module 708, 708DV, SRI-18, etc.), PGM1 **must** be disabled: enter **[2ND] [2ND]** at addresses **196** and **198**.

KEYPAD TROUBLE DISPLAY

Key **"ON"** =

[1] No battery/low voltage	**[7]** Communicator report failure
[3] AC failure	**[8]** Timer loss*
[4] Bell disconnect	**[9]** Tamper or zone wiring failure
[5] Maximum bell current	**[10]** Telephone line failure
[6] Max auxiliary current	**[11]** Fire loop trouble

*To clear timer loss trouble, see *Key Access Programming* **[MEM]**. Press **[CLEAR]** to clear troubles.

HEXA PROGRAMMING

(Used to program "Access to Upload/Download" and "Installer Code") All digits from 0 to F are valid. (See Interpreting Hexa Values)

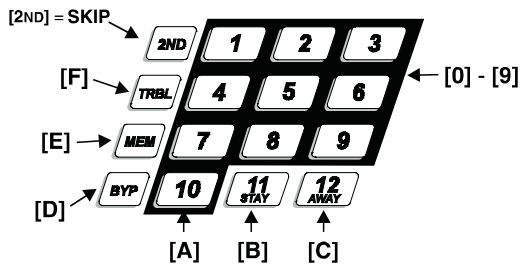
*Programming values are programmed into memory locations from address **000** to **007**.*

*1) Press **[ENTER]** + installer code (default 747474)*
*2) Key **[ENTER]** will flash (programming mode)*
3) Enter 3 digit memory address
4) Enter 2 digit data (See Hexa Display to read value*)*
*5) To erase, press **[CLEAR]. To save press [ENTER]***
6) Go to step 3 for next address

*To exit programming mode press **[CLEAR]***

INTERPRETING HEXA VALUES

KEY	HEXA VALUE	DECIMAL VALUE
[1] - [9]	1 - 9	1 - 9
[10]	A	0
[11]	B	11
[12]	C	12
[BYP]	D	13
[MEM]	E	14
[TRBL]	F	15
[2ND]	skip, null, not programmed	



ACCESS TO UPLOAD/DOWNLOAD:

000: [2ND]/__ Number of rings before answer *(default **8** rings)*
Enter "**[2ND][2ND]**" panel will not answer**.**

PANEL IDENTIFIER *(default code "empty")*

001: __/__ **002:** __/__

PC PASSWORD *(default code "empty")*

003: __/__ **004:** __/__

INSTALLER CODE: *(default code **747474**)*

Full access to programming,(all addresses except **008-058**)
No access to arming/disarming and access code programming (can be used to modify installer code)

Important: Use only numeric keys from **[1]** to **[10]** (key **[10]** = 0) to enter installer code.

005: __/__ **006:** __/__ **007:** __/__

HEXA DISPLAY

If key is lit = **8** = **4** = **2** = **1**

If key is lit = **8** = **4** = **2** = **1**

No display = **SKIP** (empty)
10 = **[0]** = **[A]**

Value of 2ND digit = **10** (**8** + **2** = **10**)
Value of 1ST digit = **3** (**2** + **1** = **3**)
VALUE = "**30**"
No light = **0**

STREAMLINED (SECTION) HEXA PROGRAMMING

(Used to program sections 00 to 34)

To begin programming
*Press **[ENTER]** + installer code + **[2] [7].** (**[ENTER]** and **[2ND]** keys will flash)*
*Enter 2 digit section number for programming (00 - 34) (**[ENTER]** key is "steady" and **[2ND]** key is "off")*
Enter 8 digit to program the section. Keypad will beep verifying completion of section programming. Data is saved and the next section is advanced to automatically for programming.

*To select a specific section press **[CLEAR]** or **[ENTER].** (**[ENTER]** and **[2ND]** keys will flash).*
*Enter 2 digit section number (00-34) (**[ENTER]** key is "steady" and **[2ND]** key is "off").*

*To exit programming mode press **[CLEAR]**.*

TELEPHONE AND ACCOUNT NUMBERS: *(default **empty**)*
[TRBL] must end the phone number if less than 16 digits are programmed.

> *If only one central station phone number is used, the same number must be programmed for telephone number 1 and 2.*

Special instructions can be entered in the telephone numbers using the following keys:

[10] = the number "0"
[11] = *
[12] = #
[BYP] = switch from pulse to tone while dialing
[MEM] = pause 4 seconds
[TRBL] = end of number

Streamlined (section) programming = [ENTER] + installer + [2], [7]

COMPUTER TELEPHONE NUMBER: (View at addresses **060** to **067**.)

00 __ / __ / __ / __ / __ / __ / __ / __ **01** __ / __ / __ / __ / __ / __ / __ / __
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Press **[TRBL]** to end the phone number if less than 16 digits are programmed.

CENTRAL STATION TELEPHONE NUMBER 1: (View at addresses **068** to **075**.)

02 __ / __ / __ / __ / __ / __ / __ / __ **03** __ / __ / __ / __ / __ / __ / __ / __
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Press **[TRBL]** to end the phone number if less than 16 digits are programmed.

CENTRAL STATION TELEPHONE NUMBER 2: (View at addresses **076** to **083**.)

04 __ / __ / __ / __ / __ / __ / __ / __ **05** __ / __ / __ / __ / __ / __ / __ / __
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Press **[TRBL]** to end the phone number if less than 16 digits are programmed.

ACCOUNT "A" AND "B": (View at addresses **084** to **087**.)

06 __ / __ / __ / __ __ / __ / __ / __
1 2 3 4 5 6 7 8
A **B**

For 3 digit account number, enter "skip" (**[2ND]**) as first digit.

If only one account number is required, the same number must be entered for both account "A" and "B".

REPORTING CODES: *(default code* "***empty***"*)*

All digits from **[1]**-**[F]** are valid. **[2ND]** (SKIP) = digit is not reported.

Streamlined (section) programming: **[ENTER]** + installer code + **[2]**, **[7]**.

IMPORTANT: If the **ONLY** reporting format selected at address **194** is "contact I.D." (key **[10]** - all codes), there is no need to program any values for addresses **088** - **193**. (See Contact I.D. Format, page 5)

ARMING (closing) CODES:

Streamline section	Data	Description	Address
07	__/__	User code 1	**088**
	__/__	User code 2	**089**
	__/__	User code 3	**090**
	__/__	User code 4	**091**
08	__/__	User code 5	**092**
	__/__	User code 6	**093**
	__/__	User code 7	**094**
	__/__	User code 8	**095**
09	__/__	User code 9	**096**
	__/__	User code 10	**097**
	__/__	User code 11	**098**
	__/__	User code 12	**099**
10	__/__	User code 13	**100**
	__/__	User code 14	**101**
	__/__	User code 15	**102**
	__/__	User code 16	**103**

DISARMING (opening) CODES:

Streamline section	Data	Description	Address
11	__/__	User code 1	**104**
	__/__	User code 2	**105**
	__/__	User code 3	**106**
	__/__	User code 4	**107**
12	__/__	User code 5	**108**
	__/__	User code 6	**109**
	__/__	User code 7	**110**
	__/__	User code 8	**111**
13	__/__	User code 9	**112**
	__/__	User code 10	**113**
	__/__	User code 11	**114**
	__/__	User code 12	**115**
14	__/__	User code 13	**116**
	__/__	User code 14	**117**
	__/__	User code 15	**118**
	__/__	User code 16	**119**

ALARM CODES ZONE 1 TO 12:

Streamline section	Data	Description	Address
15	__/__	Zone 1	**120**
	__/__	Zone 2	**121**
	__/__	Zone 3	**122**
	__/__	Zone 4	**123**
16	__/__	Zone 5	**124**
	__/__	Zone 6	**125**
	__/__	Zone 7 *KYPD1*	**126**
	__/__	Zone 8 *KYPD2*	**127**
17	__/__	Zone 9	**128**
	__/__	Zone 10	**129**
	__/__	Zone 11	**130**
	__/__	Zone 12	**131**

ALARM CODES ZONE 13 TO 24:

Streamline section	Data	Description	Address
18	[2ND]/[2ND]	Zone 13	**132**
	[2ND]/[2ND]	Zone 14	**133**
	[2ND]/[2ND]	Zone 15	**134**
	[2ND]/[2ND]	Zone 16	**135**
19	[2ND]/[2ND]	Zone 17	**136**
	[2ND]/[2ND]	Zone 18	**137**
	[2ND]/[2ND]	Zone 19	**138**
	[2ND]/[2ND]	Zone 20	**139**
20	[2ND]/[2ND]	Zone 21	**140**
	[2ND]/[2ND]	Zone 22	**141**
	[2ND]/[2ND]	Zone 23	**142**
	[2ND]/[2ND]	Zone 24	**143**

In a partitioned system, zone 7 to 12 report with account "B" and are assigned to system "B".

For single digit reporting enter "skip" (**[2ND]**) as first digit.

REPORTING CODES: *(default code* "***empty***"*)*.
All digits from **[1]**-**[F]** are valid.
[2ND] (SKIP) = digit is not reported.

Streamlined (section) programming: **[ENTER]** + installer code + **[2]**, **[7]**.

ZONE 1 TO 12 RESTORE CODES:

Streamline section	Data	Description	Address
21	__/__	Zone 1	**144**
	__/__	Zone 2	**145**
	__/__	Zone 3	**146**
	__/__	Zone 4	**147**
22	__/__	Zone 5	**148**
	__/__	Zone 6	**149**
	__/__	Zone 7 *KYPD1*	**150**
	__/__	Zone 8 *KYPD2*	**151**
23	__/__	Zone 9	**152**
	__/__	Zone 10	**153**
	__/__	Zone 11	**154**
	__/__	Zone 12	**155**

ZONE 13 TO 24 RESTORE CODES:

Streamline section	Data	Description	Address
24	[2ND]/[2ND]	Zone 13	**156**
	[2ND]/[2ND]	Zone 14	**157**
	[2ND]/[2ND]	Zone 15	**158**
	[2ND]/[2ND]	Zone 16	**159**
25	[2ND]/[2ND]	Zone 17	**160**
	[2ND]/[2ND]	Zone 18	**161**
	[2ND]/[2ND]	Zone 19	**162**
	[2ND]/[2ND]	Zone 20	**163**
26	[2ND]/[2ND]	Zone 21	**164**
	[2ND]/[2ND]	Zone 22	**165**
	[2ND]/[2ND]	Zone 23	**166**
	[2ND]/[2ND]	Zone 24	**167**

In a partitioned system, zones 7 to 12 report with account "B" and are assigned to system "B".

TROUBLE CODES:

Streamline section	Data	Description	Address
27	__/__	Maximum auxiliary current	**168**
	__/__	Bell disconnect / max. bell current	**169**
	__/__	Battery disconnected / low voltage	**170**
	__/__	No AC / low AC	**171**
28	__/__	Program change	**172**
	__/__	Timer loss	**173**
	__/__	Fire loop trouble	**174**
	__/__	Test report	**175**

TROUBLE RESTORE CODES:

Streamline section	Data	Description	Address
29	__/__	Maximum auxiliary current	**176**
	__/__	Bell disconnect	**177**
	__/__	Battery disconnected / low voltage	**178**
	__/__	No AC / low AC	**179**
30	__/__	Tamper / wiring fault	**180**
	__/__	Timer programmed	**181**
	__/__	Fire loop trouble	**182**
	__/__	TLM trouble restore	**183**

For single digit reporting enter "skip" (**[2ND]**) as first digit.

REPORTING CODES: *(default code* "***empty***"*).*
All digits from **[1]**-**[F]** are valid.
[2ND] (SKIP) = digit is not reported.

Streamlined (section) programming: **[ENTER]** + Installer code + **[2]**, **[7]**.

SPECIAL CODES - FORMATS - PGM:

Streamline section	Data	Description	Address
31	__/__	Panic 1	**184**
	__/__	Panic 2	**185**
	__/__	Panic 3	**186**
	__/__	Partial arming	**187**
32	__/__	Auto / Espload arm	**188**
	__/__	Arm with master code	**189**
	__/__	No movement*/ late to close	**190**
	__/[2ND]	Tamper on zones 1-3**	**191**
		2nd digit: any value must be entered i.e. **[2ND]**	
33	__/__	Disarm with Espload	**192**
	__/__	Disarm with master code	**193**
	__/__	1st digit: telephone 1 format	**194**
		2nd digit: telephone 2 format	
	__/[2ND]	1st digit: PGM 1 **TYPE**	**195**
		2nd digit: any value must be entered i.e. **[2ND]**	
34	__/__	PGM 1 (1st and 2nd digit)	**196**
	[2ND]/[2ND]	PGM 2 (1st and 2nd digit)	**197**
	__/__	PGM 1 (3rd and 4th digit)	**198**
	[2ND]/[2ND]	PGM 2 (3rd and 4th digit)	**199**

TYPICAL PGM OUTPUTS

Addresses 196-199 (section 34)

FUNCTION	DESCRIPTION	TYPE	HEXA PROG. Address	HEXA PROG. Address
**Ground start Pulse (Timed N.O.)	*Provides **3 sec.** pulse before communication attempt	5	5/2	**[2ND]**/8
Push key **[1]** and **[2]** (Regular N.O.)	Provides output when keys **[1]** and **[2]** are pressed simultaneously.	1	5/8	**[2ND]**/6
System armed (Regular N.C.)	Output removed when system armed.	9	2/B	**[2ND]**/8
Strobe output (Regular N.O.)	Provides latching output on alarm, until disarmed.	1	2/C	**[2ND]**/2
Fail to communicate (Timed N.O.)	*Provides output upon fail to communicate for **2 minutes.**	5	2/6	**[2ND]**/4
2nd telephone line relay (Regular N.O.)	Provides output after one failed communication attempt.	**[2ND]**	7/A	**[2ND]**/E
Kiss off (Timed N.O.)	*Provides **3 sec.** output after signal received at monitoring station.	5	7/D	**[2ND]**/8
Time output (Timed N.O.)	*Provides **3 sec.** output every day at 8PM.	6	2/3	1/4
Fire reset (Timed N.C.)	***[TRBL]** + **[11]** Provides **4 sec.** to reset detectors after alarm.	**[BYP]**	5/3	2/**[2ND]**

***Times must be programmed at address 254.**
****Not permitted on UL listed systems**

CONTACT I.D. FORMAT

Address 194 (section 33, key [9], [10])

If **CONTACT I.D. (ALL CODES)** is selected, (address **194**, key **[10]**), all addresses from **088** to **193,** programmed or not, will report Contact I.D. event codes. (Refer to "Contact I.D. event code" list, Installation Manual) Programming is not required for these addresses when **ONLY** this format is used.

If **CONTACT I.D. (SELECTED CODES)** is chosen, (address **194**, key **[9]**), all addresses from **088** to **193,** programmed with ANY VALUE except **[2ND] [2ND],** will report Contact I.D. event report codes. (Refer to "Contact I.D. event code" list, Installation Manual)

(Potential application: to report in Contact I.D. format to one central station number, and 4/2 format to the second. Use 4/2 format to program addresses. At address 194, select a 4/2 format for one telephone number, and Contact I.D. format for the second. The software will automatically convert the 4/2 codes to Contact I.D. codes when transmitting them to the second receiver.)

COMMUNICATOR FORMAT

Address 194 (section 33)

KEY	
[2ND]	= ADEMCO slow (1400Hz, 1900Hz, 10bps)
[1]	= (1400Hz, 1800Hz, 10bps)
[2]	= SILENT KNIGHT fast (1400Hz, 1900Hz, 20bps)
[3]	= SESCOA (2300Hz, 1800Hz, 20bps)
[4]	= RADIONICS (40bps with 1400Hz handshake)
[5]	= RADIONICS (40bps with 2300Hz handshake)
[6]	= RADIONICS with PARITY (1400Hz, 40bps)
[7]	= RADIONICS with PARITY (2300Hz, 40bps)
[8]	= ADEMCO express
[9]	= ADEMCO contact ID (selected codes)
[10]	= ADEMCO contact ID (all codes)
[TRBL]	= DTMF - no handshake (personal dialing)

IMPORTANT:

Dialer circuit is patent pending.

PGM TYPE

Address 195 (section 33)

KEY		KEY	
[2ND]	: OR	**[8]**	: OR
[1]	: AND — Reg N.O.	**[9]**	: AND — Reg N.C.
[2]	: EQUAL	**[10]**	: EQUAL
[4]	: OR	**[12]**	: OR
[5]	: AND — Timed N.O.	**[BYP]**	: AND — Timed N.C.
[6]	: EQUAL	**[MEM]**	: EQUAL

(For timed PGM see also address **254**)

*No movement for specified time or panel not armed at specified hour - see addresses **245**, **246**, **253**.

1st digit of zone tamper is reported with 2nd digit of zone 1 - 3 alarm codes - see addresses **120 - 131.

FEATURE SELECT (LIGHT ON/OFF) PROGRAMMING

Feature selection programming addresses to The "ON"/"OFF" status of the lights (keys) determines features selected.

1) Press + installer code (default 747474). key will flash.
2) Enter 3 digit memory address (to).
3) Press corresponding key to select option.
4) To change selection press key again.
5) To save press .
6) Repeat steps 3 to 5 for addresses to
7) To exit programming mode press

Note: Default = "OFF" for addresses to

CODE PRIORITY

KEY SELECT:	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[BYP]	[MEM]	[TRBL]	[2ND]
200: SYSTEM "A" / STAY	1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐	10 ☐	11 ☐	12 ☐	13 ☐	14 ☐	15 ☐	16 ☐
202: SYSTEM "B" / AWAY	1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐	10 ☐	11 ☐	12 ☐	13 ☐	14 ☐	15 ☐	16 ☐
204: Codes with bypass access	1 ☐	2 ☐	3 ☐	4 ☐	5 ☐	6 ☐	7 ☐	8 ☐	9 ☐	10 ☐	11 ☐	12 ☐	13 ☐	14 ☐	15 ☐	16 ☐

206:

	KEY OFF	KEY ON	
See "**TLM**" Table	☐	☐	**[2ND]**
	☐	☐	**[1]**
PS1/Keyswitch = regular arm / (A + B)	☐	☐	**[2]** stay arm / System A
PS1/keyswitch arming	☐	☐	**[3]** enabled
Call back	☐	☐	**[4]** enabled
Auto arm on time	☐	☐	**[5]** enabled
Auto arm on no movement	☐	☐	**[6]** enabled
Pulse dialing	☐	☐	**[7]** Tone dialing (DTMF)
Partitioning	☐	☐	**[8]** enabled
Silent zone/panic generates a silent alarm	☐	☐	**[9]** generates only a report
(1:2) PULSE EUROPE	☐	☐	**[10]** (1:1.5) PULSE USA
See "**REPORTING**" Table	☐	☐	**[11]**
	☐	☐	**[12]**
Answering machine override	☐	☐	**[BYP]** enabled
Bell squawk on arm/disarm	☐	☐	**[MEM]** enabled
Auto zone shut-down	☐	☐	**[TRBL]** enabled

208:

	KEY OFF	KEY ON	
Call PC when event list is full	☐	☐	**[2ND]** enabled
Panic 1 (keys **[1]** & **[3]**, PS1)	☐	☐	**[1]** enabled
Panic 2 (keys **[4]** & **[6]**)	☐	☐	**[2]** enabled
Panic 3 (keys **[7]** & **[9]**)	☐	☐	**[3]** enabled
Panic 1 silent (PS1)	☐	☐	**[4]** audible
Panic 2 silent	☐	☐	**[5]** audible
Panic 3 silent	☐	☐	**[6]** fire
Key **[10]** regular arm / (A + B)	☐	☐	**[7]** enabled
Key **[11]** stay or system A arm	☐	☐	**[8]** enabled
6 digit access codes	☐	☐	**[9]** 4 digit
See "Tamper/Wire Fault Definition Table"	☐	☐	**[10]**
	☐	☐	**[11]**
Beep on exit delay	☐	☐	**[12]** enabled
Report zone restore on bell cut-off	☐	☐	**[BYP]** on zone closure
Zones with EOL **green** (1KΩ)	☐	☐	**[MEM]** no EOL
Always report disarm	☐	☐	**[TRBL]** only after alarm

TLM TABLE (TLM = Telephone Line Monitor)

Address 206, Key [2ND] [1]

KEY [2ND]	KEY [1]	
OFF	OFF	— TLM disabled
OFF	ON	— TLM generates trouble only
ON	OFF	— generates an alarm if armed
ON	ON	— silent alarm becomes audible

(address **206**, key **[9]** has to be **OFF**)

REPORTING TABLE

Address 206, Key [11] [12]

KEY [11]	KEY [12]	TYPE	DIALING SEQUENCE (tel. No.)
OFF	OFF	– Reporting disabled	
OFF	ON	– Regular reporting	– 2,1,2,1,2,1,2,1, fail to comm.
ON	OFF	– Split reporting: Alarms*	– 1,1,1,1,1,1,1,1, fail to comm.
		System report	– 2,2,2,2,2,2,2,2, fail to comm.
ON	ON	– Double reporting	– 2,2,2,2,2,2,2,2, fail to comm., 1,1,1,1,1,1,1,1, fail to comm.

* On alarm, all reports are made to Tel. #1 until the system is disarmed. (Once disarmed system reports are made to Tel. #2)

TAMPER / WIRE FAULT DEFINITION TABLE

Address 208, Key [10] [11]

SYSTEM ARMED	KEY [10]	KEY [11]	SYSTEM DISARMED*
Alarm as per individual zone definitions	OFF	OFF	– Disabled
Always generate trouble and alarm, audible or silent as per individual zone definitions	OFF	ON	– No alarm, trouble code reported
	ON	OFF	– Silent alarm and trouble codes reported
	ON	ON	– Audible alarm and trouble codes reported**

*Exception: for 24 hour zones the tamper definition will follow the audible/silent alarm definition of the 24 hour zone.
**Silent zones will generate a silent alarm

FEATURE SELECT (LIGHT ON/OFF) PROGRAMMING

Feature selection programming addresses to The "ON"/"OFF" status of the lights (keys) determines features selected.

1) Press + installer code (default 747474). key will flash.
2) Enter 3 digit memory address (to).
3) Press corresponding key to select option.
4) To change selection press key again.
5) To save press .
6) Repeat steps 3 to 5 for addresses to
7) To exit programming mode press

Note: Default = "OFF" for addresses to

210:

	KEY OFF / ON	
Exclude AC from trouble display	[2ND]	enabled
Zone 6	[1]	disabled (in case of fire zone 3 only)
Auto arm = regular arm / (A + B)	[2]	stay arm
Arming regular	[3]	auto away
Arm-inhibit on batt fail	[4]	enabled
Arm-inhibit on tamper*	[5]	enabled
No tamper bypass	[6]	tamper follows zone bypass definition
Only bypass code reported on bypass arming	[7]	enabled
Zone doubling (ATZ)	[8]	enabled
Audible trouble warning	[9]	disabled

*Only installer can clear tamper trouble.

ZONE DEFINITION: *(default = " ")*

KEY SELECT:	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]
212	1	2	3	4	5	6	7	8	9	10	11	12	**214**	Zones 13 to 24 are not available.											
Fast = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
216	1	2	3	4	5	6	7	8	9	10	11	12	**218**	Zones 13 to 24 are not available.											
Silent = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
220	1	2	3	4	5	6	7	8	9	10	11	12	**222**	Zones 13 to 24 are not available.											
24 Hr./ Fire = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
224	1	2	3	4	5	6	7	8	9	10	11	12	**226**	Zones 13 to 24 are not available.											
Instant = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
228	1	2	3	4	5	6	7	8	9	10	11	12	**230**	Zones 13 to 24 are not available.											
Follow = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
232	1	2	3	4	5	6	7	8	9	10	11	12	**234**	Zones 13 to 24 are not available.											
Delay 2 = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
236	1	2	3	4	5	6	7	8	9	10	11	12	**238**	Zones 13 to 24 are not available.											
Bypass enabled = ON	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

240	SYSTEM A						SYSTEM B						**242**** Zone Swap												
If ON**, zone is ARMED on stay or split arming**	1	2	3	4	5	6	7	8	9	10	11	12		1	2	3	4	5	6	N/A					
	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

NOTE: Zones not selected at addresses **220** to **234** are "Delay 1" zones.

**See installation manual "Partitioning"

Zone Swap

[1]	1↔7	**[4]**	4→10
[2]	2↔8	**[5]**	5→11
[3]	3→9	**[6]**	6→12

Recommended for use with partitioned systems only.

3 DIGIT DECIMAL VALUE PROGRAMMING

*Decimal value programming addresses **244** to **255**. Values entered must contain 3 digits.*

1) *Press **[ENTER]** + installer code (default 747474) (**[ENTER]** key will flash)*
2) *Enter 3 digit address (**244** to **255**)*
3) *Enter 3 digit DECIMAL value (See Decimal Value Display* to read value*)*
4) *To erase, press **[CLEAR]**. To save press **[ENTER]***
5) *Go to step 2 for next address. To exit programming mode press **[CLEAR]***

(values entered at addresses **"244** - **255"** contain 3 digits between "000" and "255") (**[10]** = 0)

244: __/__/__ (days) Auto test report every ? days (between "001" and "255") *(000=disabled)*

245: __/__/__ (hours) Auto test report / Auto arm time (between "000" and "023")

246: __/__/__ (minutes) Auto test report / Auto arm time (between "000" and "059")

247: __/__/__ (seconds) Exit delay *(default **60** seconds)*

248: __/__/__ (seconds) Entry delay 1 *(default **45** seconds)*

249: __/__/__ (seconds) Entry delay 2 *(default **45** seconds)*

250: __/__/__ (minutes) Bell cut-off time (*default **5** minutes)*

251: __/__/__ (x 15 mSec.) Slow zone speed *(default **600** mSec.)*

252: __/__/__ (minutes) AC report delay *(default **30** minutes) (000=disabled)*

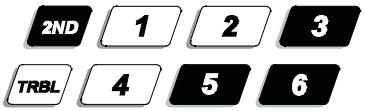
253: __/__/__ (x 15 minutes) Time for "No Movement" Report *(000=disabled) (default **8** hours)*

254: __/__/__ PGM timer setting: 001 to 127 for seconds and 129 to 255 for minutes *(default **5** seconds)*.
Add 128 to desired value in minutes (i.e.for 5 minutes:enter 5 + 128 = 133)

255: __/__/__ Installer lock (**147** = locked, **000** = unlocked) *(default **unlocked**)*

DECIMAL VALUE DISPLAY

If key is lit = **8** = **4** = **2** = **1**



Total value (**57**)
(**8** + **1** + **32** + **16 = 57**)

If key is lit = **128** = **64** = **32** = **16**

No light = **0**

KEY ACCESS PROGRAMMING

*Several panel features can be programmed quickly, without entering addresses or programming section numbers. Select "one-key access" programming mode by pressing **[ENTER]**, followed by the installer, master or user 1 code (depending on the feature you wish to activate, only certain codes will be functional). Then press the single key (listed below) corresponding to the feature you wish to enable.*

key

[9] **"Auto arming" time program** *(accessible to master and user 1 only)*
Enter two digits (00 to 23) for hours + 2 digits (00 to 59) for minutes + **[ENTER]**.

[MEM] **"Panel time" and clear "trouble 8"** *(all 3 codes)*
Enter two digits (00 to 23) for hours + 2 digits (00 to 59) for minutes + **[ENTER]**

[BYP] **Test report** *(all 3 codes)*
Reporting is enabled at address **206** keys **[11]**, **[12]**. A value must be entered at address **175**, and both telephone and account numbers must be programmed.

[TRBL] **Call Esplad via telephone** *(all 3 codes)*
Panel and PC ID numbers (addresses **001**-**004**) and PC download phone number (addresses **060**-**067**) must be programmed.

[AWAY] **Answer Esplad** *(all 3 codes)*
This feature is available when using the ADP-1 adapter. In Esplad, "blind dial" must be activated in "modem setup" section, and panel phone number programmed (works also without ADP-1).

[STAY] **Cancel communication attempts** *(master code and user 1 can only stop calls from/to Esplad)*
Until next reportable event *(installer code - all communications)*

[STAY] **Reset to default panel settings** *(installer code only)*
Connect reset jumper. Press **[ENTER]** + installer code + **[STAY]**, remove reset jumper.

[2], [6] **Installer test mode** *(installer code only)*
In installer test mode, a confirmation beep (intermittent) indicates test is "on", a "rejection" beep (long) indicates test is "off". The bell will squawk during walk testing to indicate opened, functional zones.

[2], [7] **Streamlined value entry** *(installer code only)*

Note: When communicating with Esplad, it is impossible to enter programming mode.

CHANGE MASTER AND USER CODES

*(default master **474747**)*

***[ENTER]** + master code + code number (2 digits) + new code (4 or 6 digits, 0 to 9) +**[ENTER]**.*
*Use **[2ND]** to erase a code.*

***Master code = 00** (**[10][10]**) Full access to all system functions.*

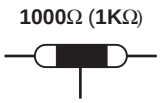
***User codes = 01-16** (01 - can modify access codes. All user code priorities can be programmed at addresses **200**, **202**, **204** with the installer code.)*
*Note: **[2ND]** key flashes if location is empty.*
*To erase a code: **[ENTER]** + master + code number + **[2ND]** + **[ENTER]**.*

ATZ ONE IDENTIFICATION TABLE

Input Terminal #	Zone #'s (without ATZ)	ATZ zone #'s (double zones) *green* (1KΩ)	*brown* (.5KΩ)
1/4	1	1	4
2/5	2	2	5
3/6	3*	3*	6

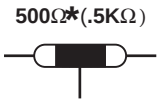
*Fire zone when programmed "24 hour"

RESISTOR GUIDE



1000Ω (1KΩ)

GREEN
Normal Zone



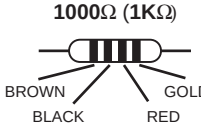
500Ω*(.5KΩ)

BROWN
Double Zone

*If unavailable, a 510Ω is acceptable

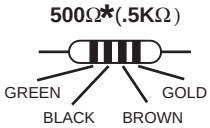
RESISTOR GUIDE (ALTERNATE)

1000Ω (1KΩ)



Normal Zone

500Ω*(.5KΩ)



Double Zone

*If unavailable, a 510Ω is acceptable

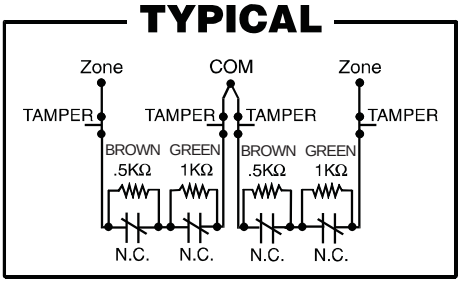
The system hardware will recognize the following conditions for each zone:

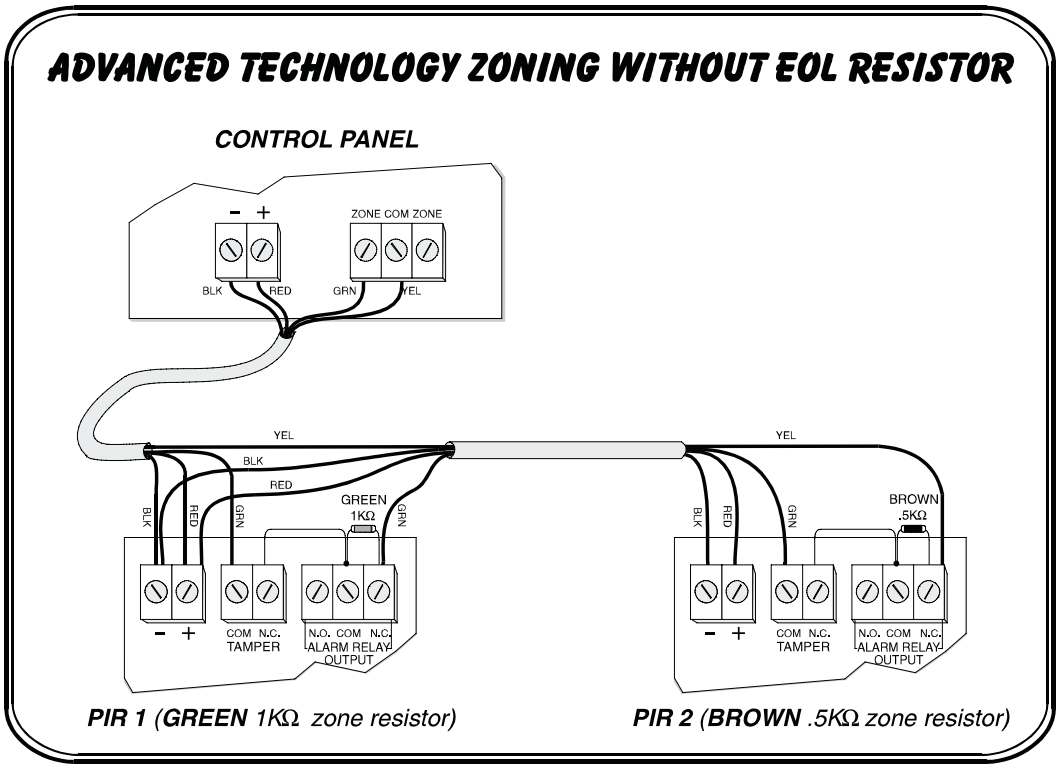
ADVANCED TECHNOLOGY ZONE connection, 1 zone resistor (without EOL), tamper recognition (N.C. contacts)

address **208,** key **[MEM] =** "on"
key **[10] =** See "Tamper/wire Fault Definitions
key **[11] =** and Options"
address **210,** key **[8] =** "on"

Tamper fault transmits separate code

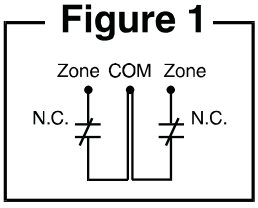
Each zone transmits separate alarm code, see "TYPICAL"
4 Alarm zones
2 Tamper signals





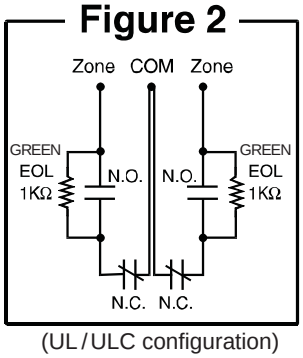
SINGLE ZONE connection without EOL resistor (N.C. contacts)

address **208,** key **[MEM] =** "on"
key **[10] =** "off" (default)
key **[11] =** "off" (default)
address **210,** key **[8] =** "off"
N.C. contacts see Figure 1
Note: Keypad zones always use **green** (1K OHM) EOL



SINGLE ZONE connection with 1 EOL resistor (N.C. and N.O. contacts)

address **208,** key **[MEM] =** "off" (default)
key **[10] =** "off" (default)
key **[11] =** "off" (default)
address **210,** key **[8] =** "off"
N.C. and/or N.O. contacts, see Figure 2

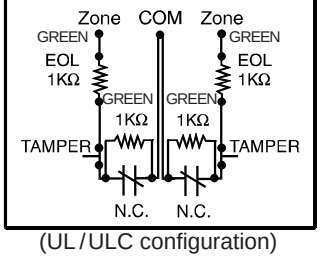


(UL / ULC configuration)

SINGLE ZONE connection with 1 EOL resistor, tamper recognition (N.C. contacts)

address **208,** key **[MEM] =** "off"
key **[10] =** See "Tamper/wire Fault Definitions
key **[11] =** and Options"
address **210,** key **[8] =** "off"
Tamper fault transmits separate code, see Figure 3

Figure 3

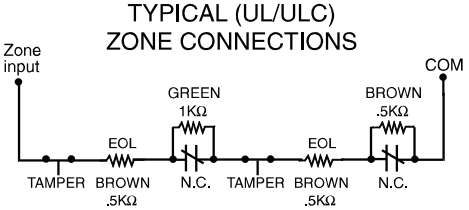


(UL/ULC configuration)

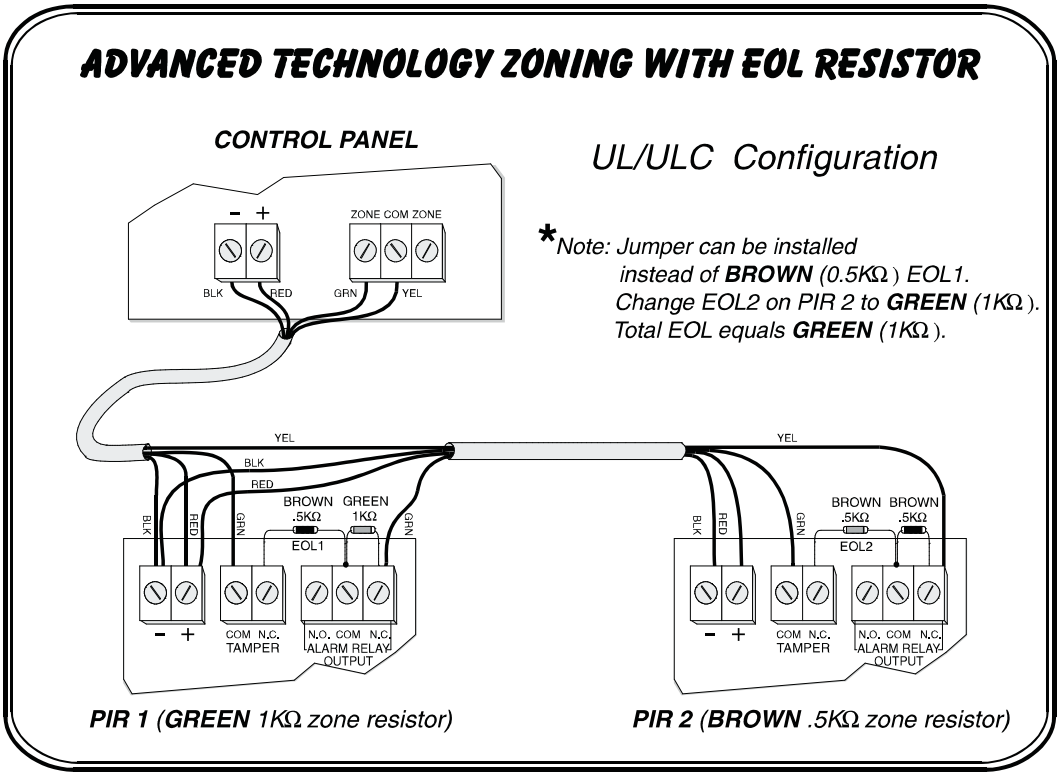
ADVANCED TECHNOLOGY ZONE connection, 2 zones with zone resistors, 1 EOL resistor green (1KOHM) tamper (open) recognition, wire fault (short circuit) recognition (N.C. contacts)

address **208,** key **[MEM] =** "off"
key **[10] =** See "Tamper/wire Fault Definitions
key **[11] =** and Options"
address **210,** key **[8] =** "on"
Each zone transmits a separate alarm code.
Tamper/wire fault transmits a separate alarm code, indicated by fast flashing zone light on keypad and is annunciated in ***Espload***, see figure 4.

Figure 4

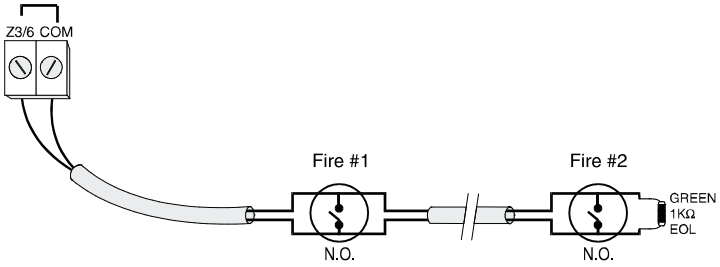


(UL/ULC configuration)

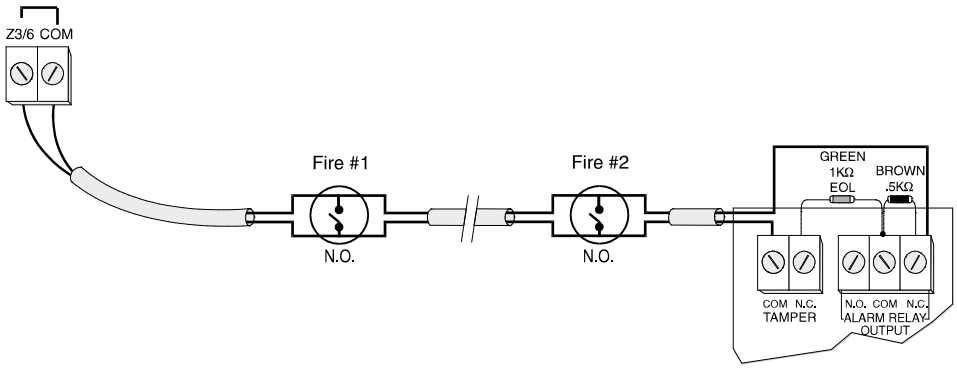


DOUBLE FIRE LOOP

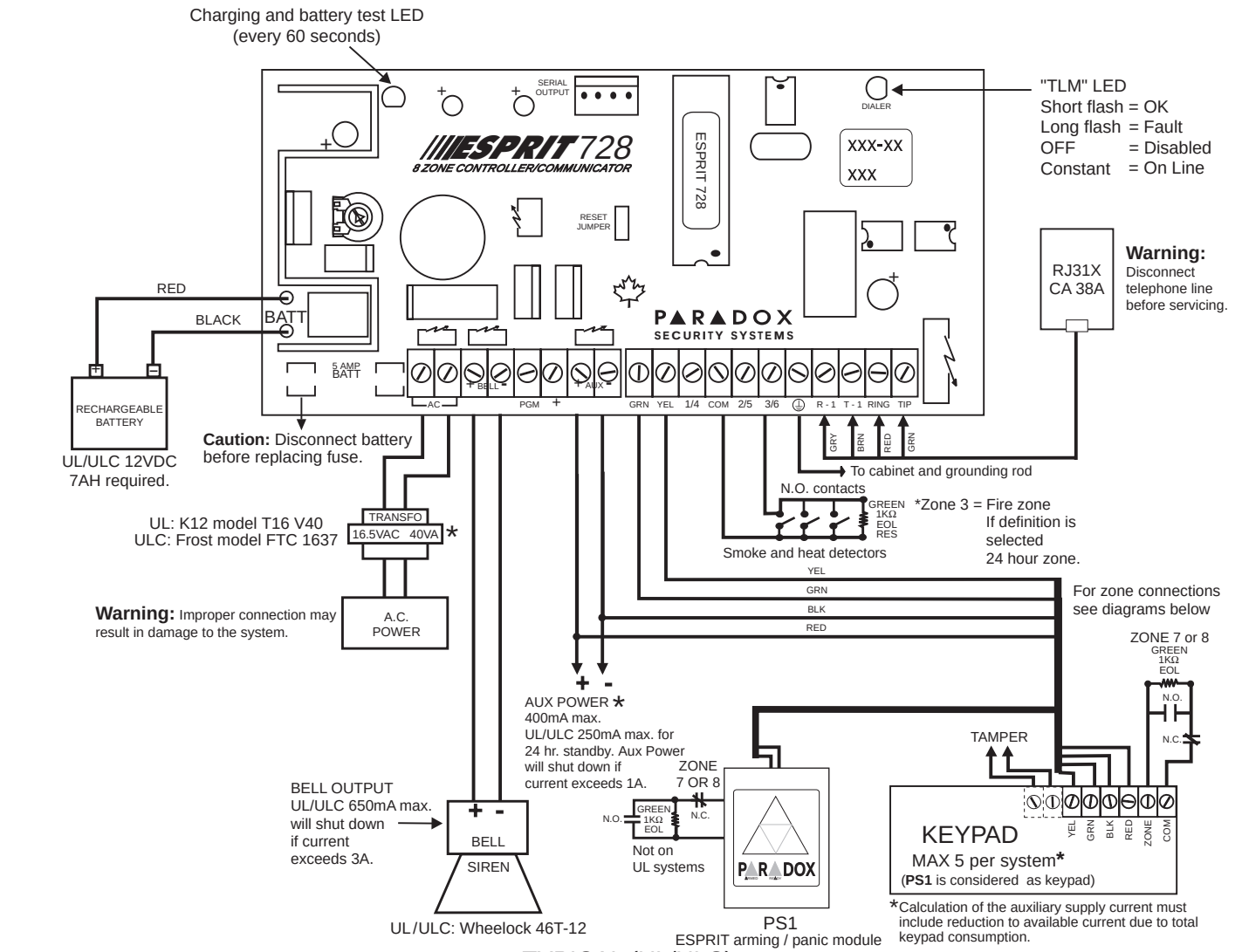
Without zone 6 (address **210,** key **[1]** = ON)



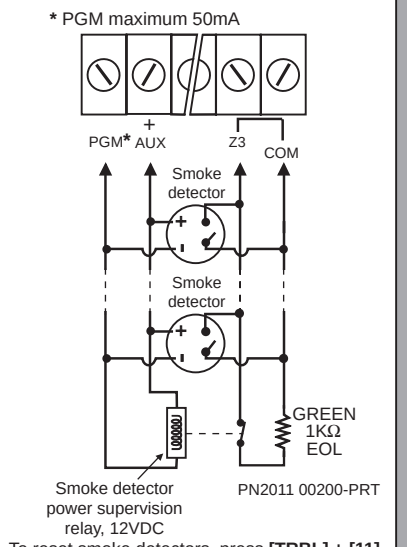
With zone 6 (address **210,** key **[1]** = OFF)



ESPRIT 728 WIRING DIAGRAM



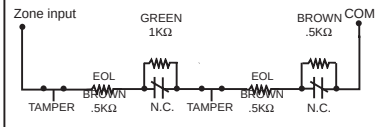
FIRE ALARM ZONE CONNECTIONS



To reset smoke detectors, press **[TRBL] + [11]**

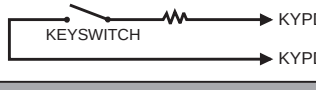
Smoke detector must be 4 wire latching -
UL Falcon model 5454, ULC BRK 2412
Power supervision relay model MR3-UL.

TYPICAL (UL/ULC) ZONE CONNECTIONS



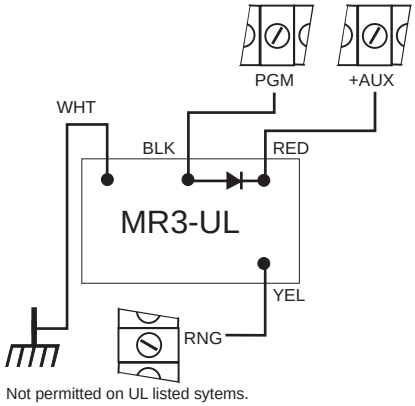
Advanced Technology Zoning with EOL resistor

KEYSWITCH CONNECTION



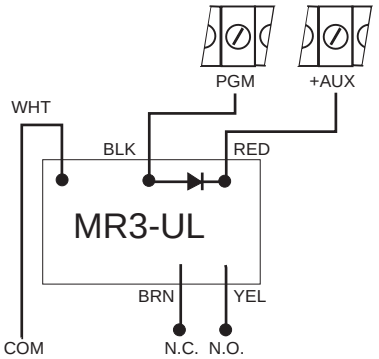
Keyswitch can be used in parallel with keypad (or PS1), (not on UL systems).

GROUND START CIRCUIT



Not permitted on UL listed sytems.

PGM OUTPUT RELAY



For smoke detector reset PGM1

Address	Data
196	[5] [3]
198	[2] [2ND]

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