E-Plex Design Manual

Renegade - 3300XM KOKOPELLI

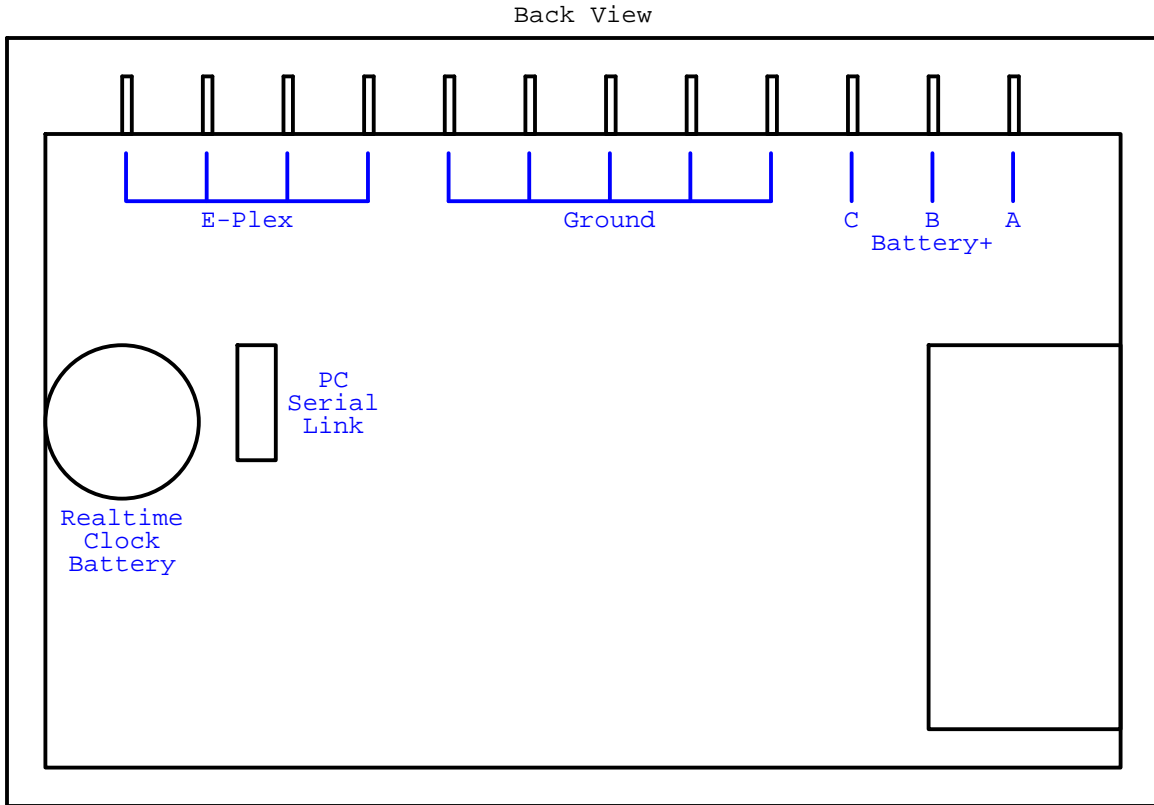# Renegade

1

Address: 10
400ECM
E-Plex Clock Module

Location:

Back View

E-Plex   Ground   C   B   A
                                   Battery+
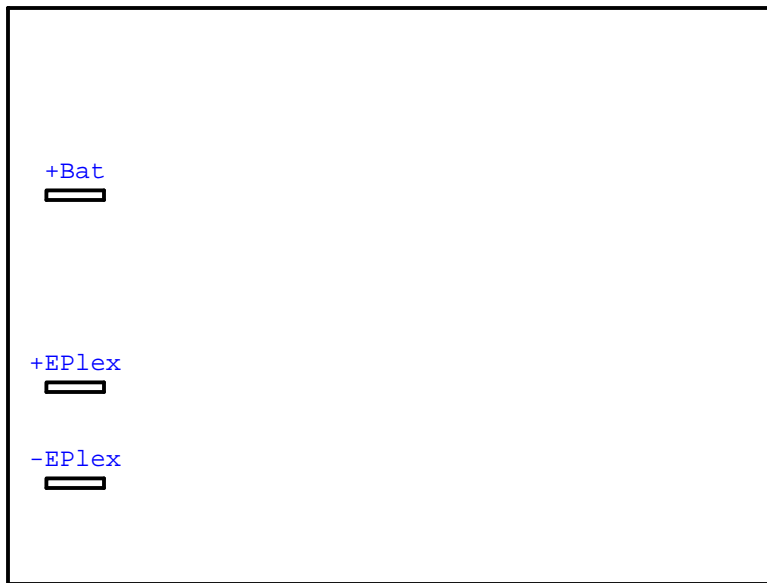
PC
Serial
Link

Realtime
Clock
Battery

Clock will automatically take the highest voltage of A, B, or C and use that to supply the E-Plex signal. Clock battery connection should be fused at 5A.

Address: 110
345LCDC
5.7" LCD Display

Location:
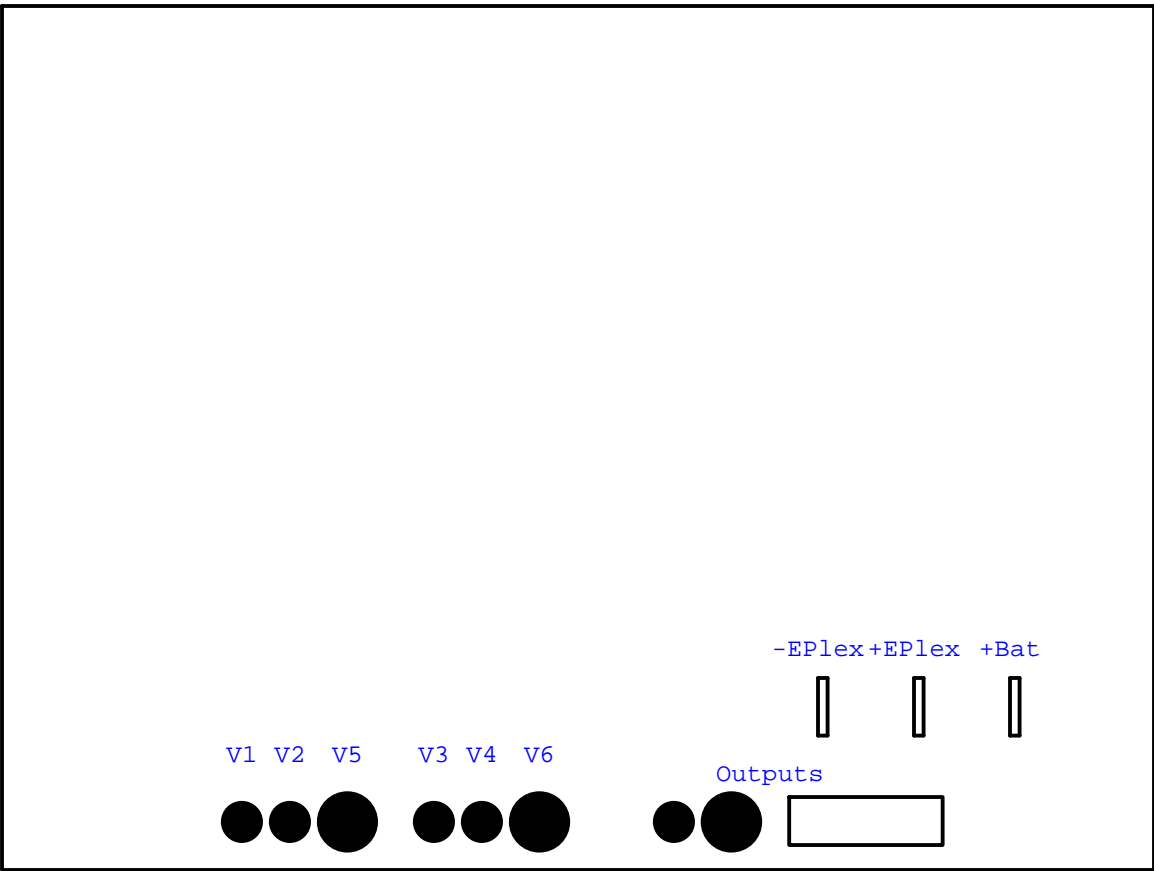
+Bat

+EPlex

-EPlex

Address: 158
350LCD2
10" Transflective LCD

Location:

-EPlex +EPlex +Bat

V1 V2 V5   V3 V4 V6

Outputs

Address: 230

303TM1
Temperature Probe (Air)

Location:

Description: Zone 1 & 2 Temperature

-EPlex

+EPlex

Address: 240
303TM1
Temperature Probe (Air)

Location:

Description: Zone 3 Temperature

-EPlex

+EPlex

Address: 250

303TM1
Temperature Probe (Air)
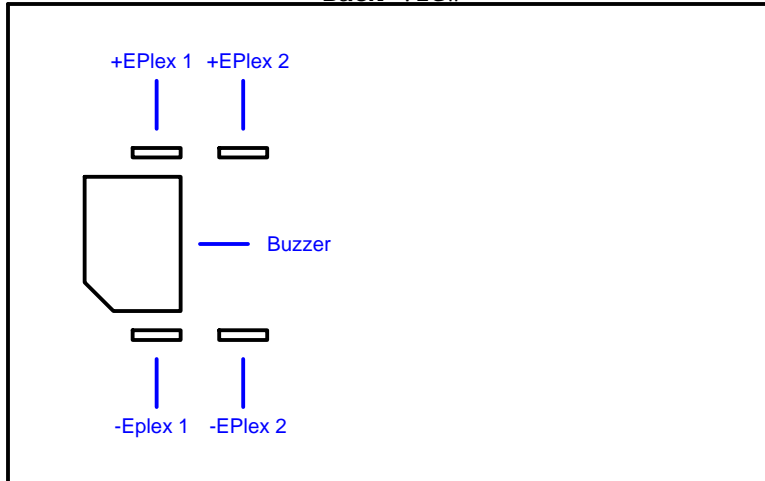
Location:

Description: Outside Temperature

-EPlex

+EPlex

Address: 260
416TPS
Touch Panel Switch

Location: Entrance

Description: Zone1-SP1b Control

Back View

+EPlex 1   +EPlex 2

Buzzer

-Eplex 1   -EPlex 2

Front View

LED 2A   LED 2B   LED 4A   LED 4B   LED 6A

LED 1A   LED 1B   LED 3A   LED 3B   LED 5A
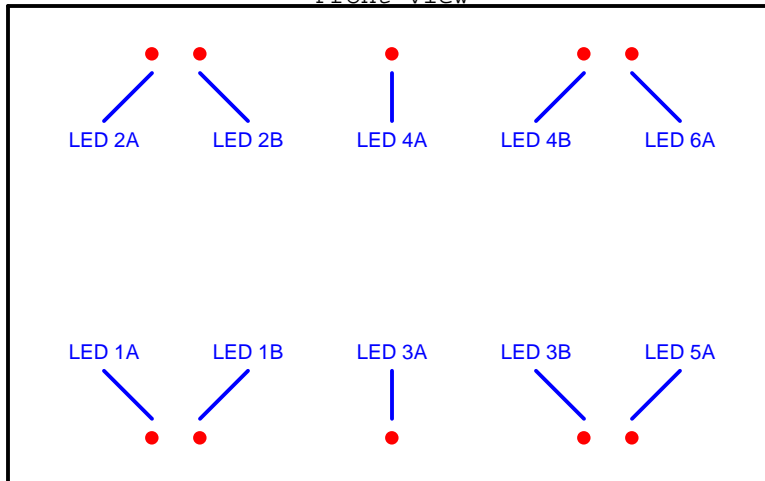
LED 1A:
LED 2A:
LED 3A:
LED 4A:
LED 5A:
LED 6A:
LED 1B:
LED 2B:
LED 3B:
LED 4B:

Address: 270
416TPS
Touch Panel Switch

Location: Kitchen

Description: Zone1-SP1a Control

Back View

+EPlex 1   +EPlex 2

Buzzer

-Eplex 1   -EPlex 2

Front View

LED 2A   LED 2B   LED 4A   LED 4B   LED 6A
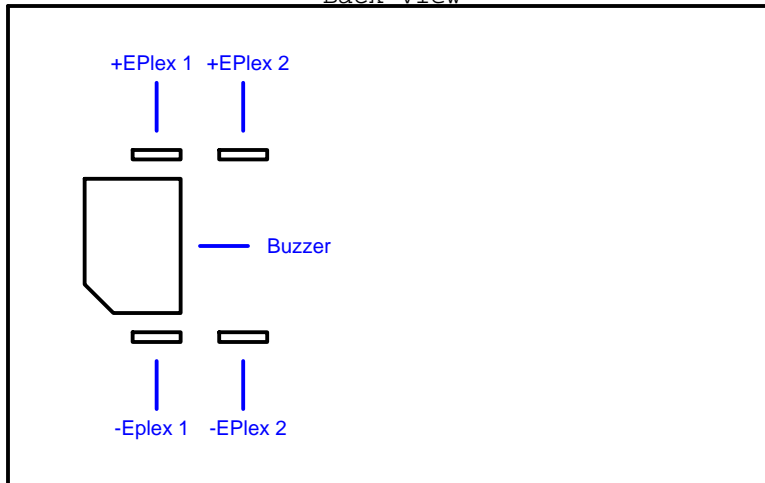
LED 1A   LED 1B   LED 3A   LED 3B   LED 5A

LED 1A:
LED 2A:
LED 3A:
LED 4A:
LED 5A:
LED 6A:
LED 1B:
LED 2B:
LED 3B:
LED 4B:

Address: 280
416TPS
Touch Panel Switch

Location: Dining Slideout
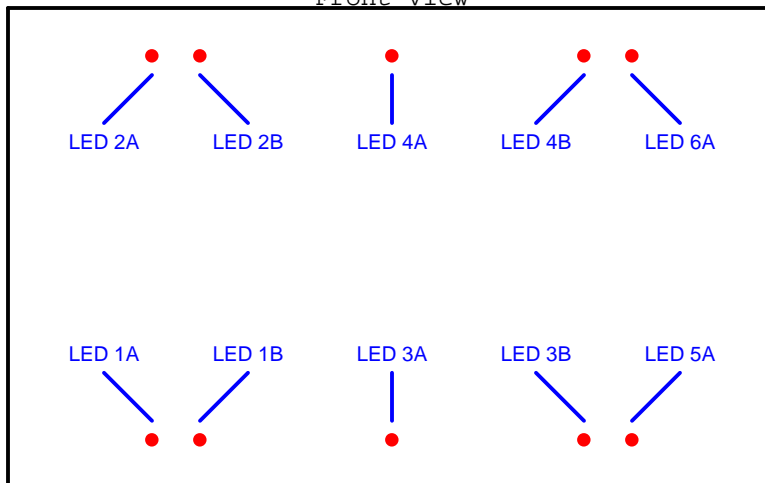
Description: Zone1-SP1c Control

Back View

+EPlex 1 +EPlex 2

Buzzer

-Eplex 1 -EPlex 2

Front View

LED 2A   LED 2B   LED 4A   LED 4B   LED 6A
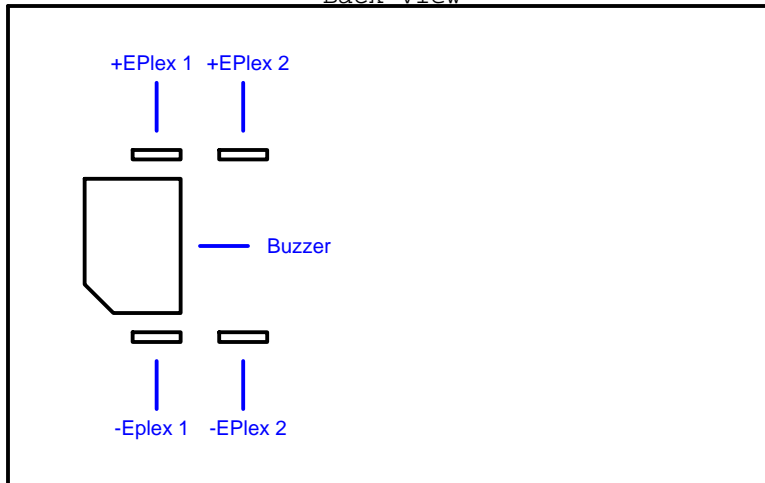
LED 1A   LED 1B   LED 3A   LED 3B   LED 5A
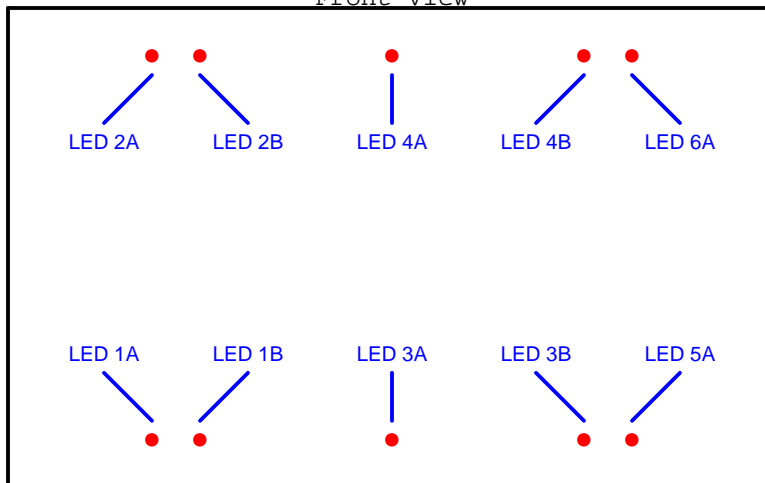
LED 1A:
LED 2A:
LED 3A:
LED 4A:
LED 5A:
LED 6A:
LED 1B:
LED 2B:
LED 3B:
LED 4B:

Address: 290
367TPD
Touch Panel Display

Location: Bathroom Door

Description: Zone1-SP2 Control

Back View

+EPlex 1   +EPlex 2

Buzzer

-Eplex 1   -EPlex 2

Front View
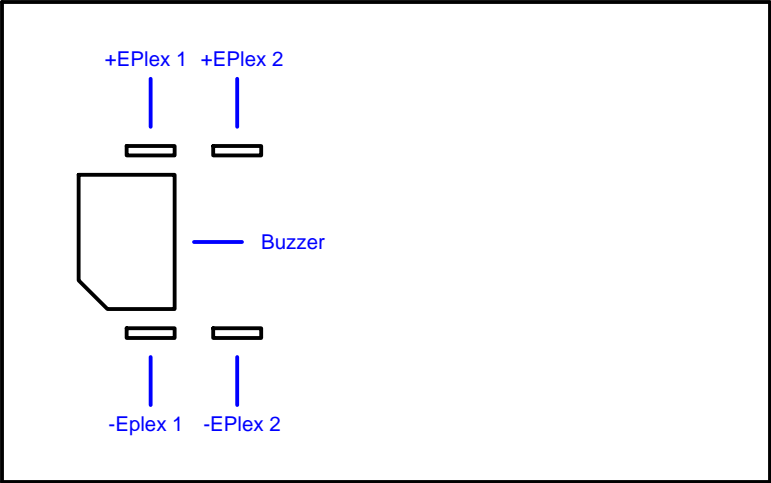
LED 1   LED 3   LED 5

LED 2   LED 4   LED 6

LED 1:
LED 2:
LED 3:
LED 4:
LED 5:
LED 6:

Address: 300
416TPS
Touch Panel Switch

Location: Bathroom(Living side)

Description: SP3a

Back View

+EPlex 1 +EPlex 2

Buzzer

-Eplex 1 -EPlex 2

Front View

LED 2A   LED 2B   LED 4A   LED 4B   LED 6A
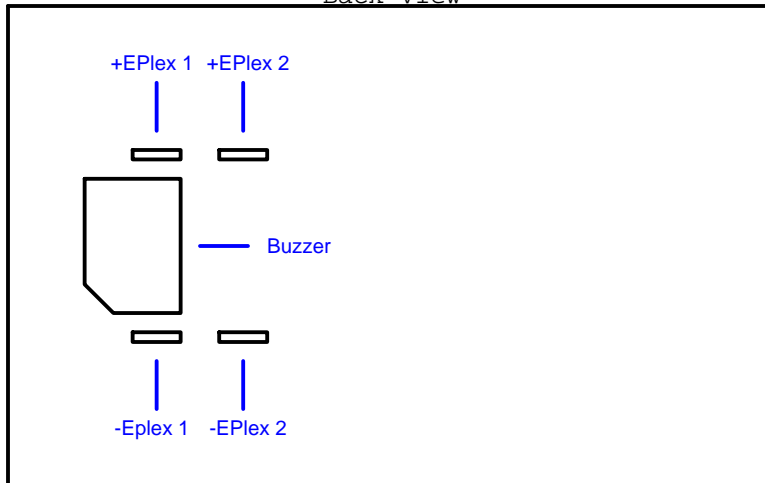
LED 1A   LED 1B   LED 3A   LED 3B   LED 5A
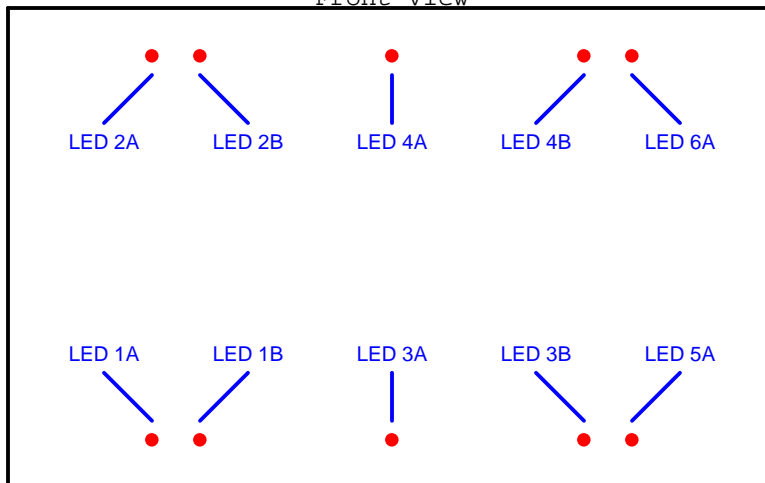
LED 1A:
LED 2A:
LED 3A:
LED 4A:
LED 5A:
LED 6A:
LED 1B:
LED 2B:
LED 3B:
LED 4B:

Address: 310
416TPS
Touch Panel Switch

Location: Bathroom(Bedroom side)

Description: SP4a

Back View

+EPlex 1 +EPlex 2

Buzzer

-Eplex 1 -EPlex 2

Front View

LED 2A   LED 2B   LED 4A   LED 4B   LED 6A
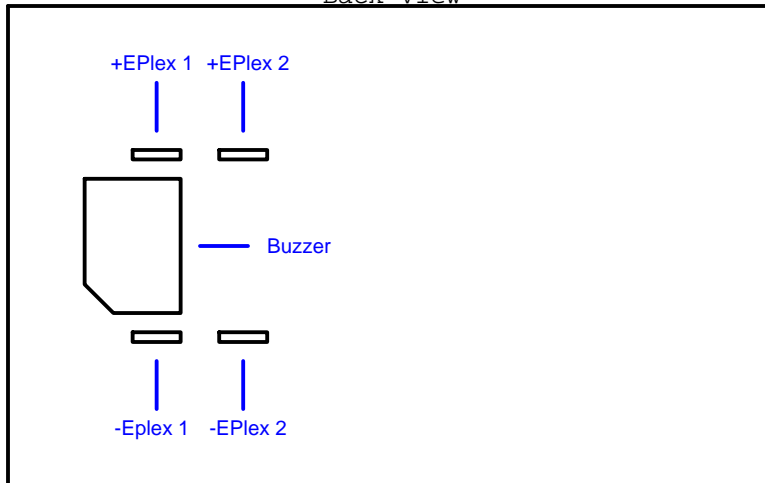
LED 1A   LED 1B   LED 3A   LED 3B   LED 5A
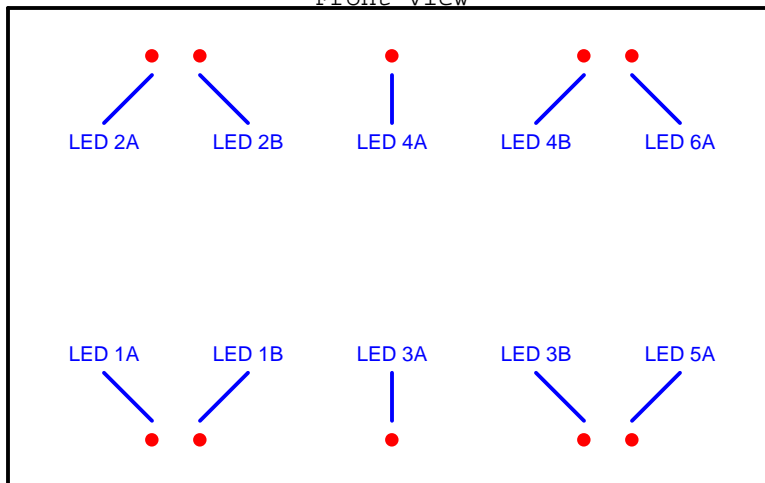
LED 1A:
LED 2A:
LED 3A:
LED 4A:
LED 5A:
LED 6A:
LED 1B:
LED 2B:
LED 3B:
LED 4B:

Address: 320
367TPD
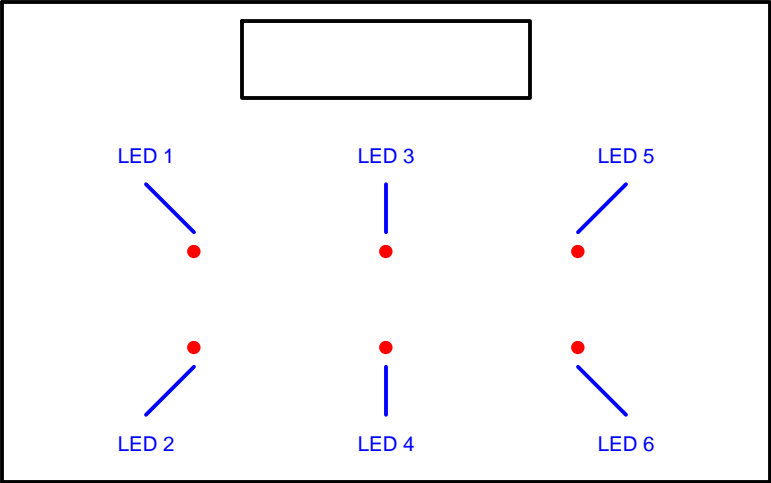## Touch Panel Display

Location: Bedroom

Description: SP5b

Back View

+EPlex 1   +EPlex 2

— Buzzer

-Eplex 1   -EPlex 2

Front View
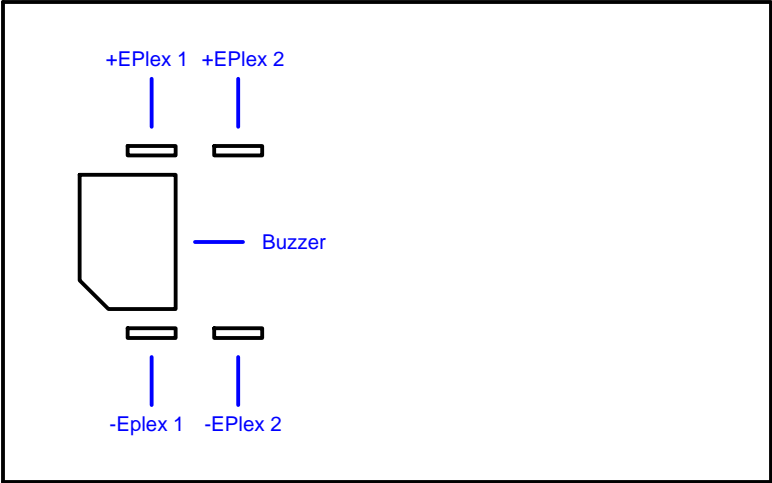
LED 1   LED 3   LED 5
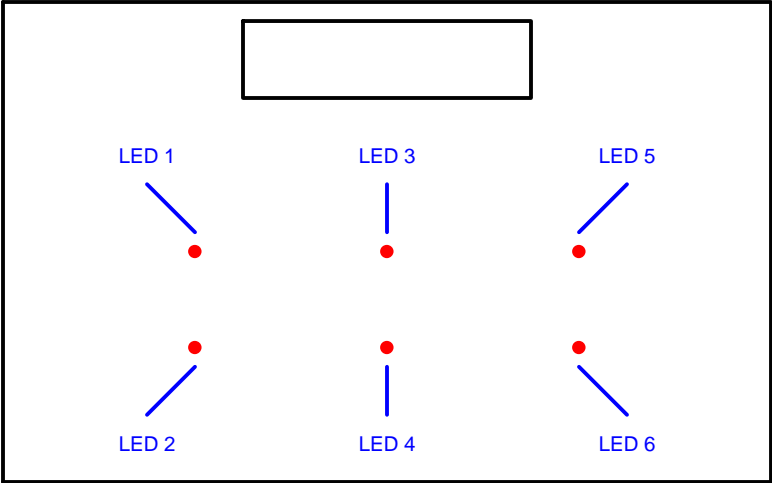
LED 2   LED 4   LED 6

LED 1:
LED 2:
LED 3:
LED 4:
LED 5:
LED 6:

Address: 330
416TPS
Touch Panel Switch

Location: Bedroom

Description: SP5a

Back View

+EPlex 1   +EPlex 2

Buzzer

-Eplex 1   -EPlex 2

Front View

LED 2A   LED 2B   LED 4A   LED 4B   LED 6A
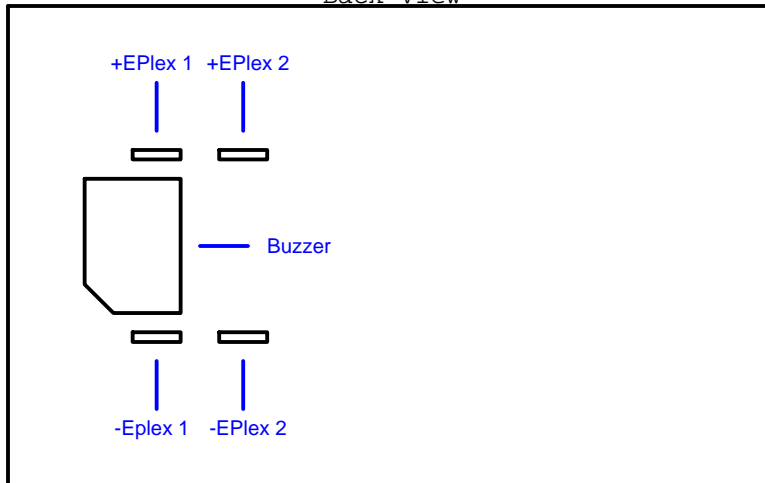
LED 1A   LED 1B   LED 3A   LED 3B   LED 5A
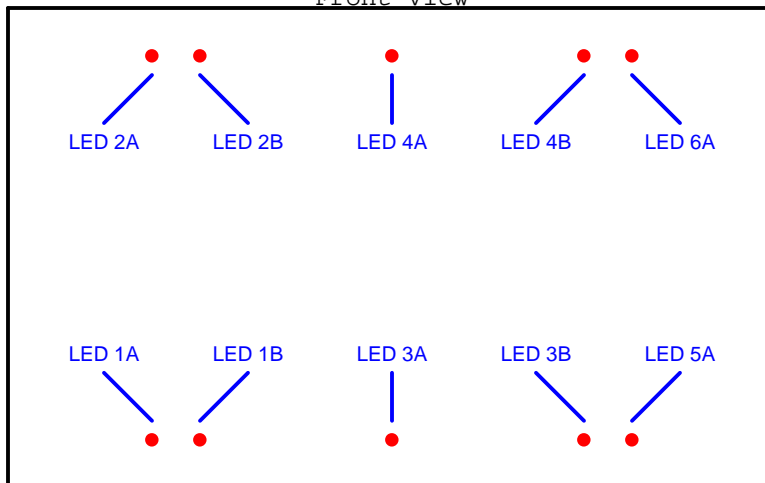
LED 1A:
LED 2A:
LED 3A:
LED 4A:
LED 5A:
LED 6A:
LED 1B:
LED 2B:
LED 3B:
LED 4B:

Address: 380
149CT30
Single Relay Module
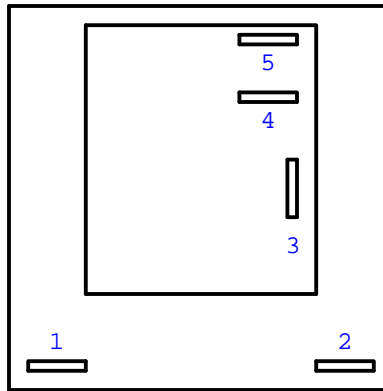
Location: Storage Bay-Front

Description: Step Cover Control

```
        ┌─────────────────────┐
        │   ┌──────────┐       │
        │   │      ▭   │       │
        │   │      5   │       │
        │   │     ▭    │       │
        │   │     4    │       │
        │   │      ▮   │       │
        │   │      3   │       │
        │   └──────────┘       │
        │ 1            2        │
        │ ▭            ▭        │
        └─────────────────────┘
```

Pin 1:   +EPlex
Pin 2:   -EPlex
Pin 3:   Common Relay Contact
Pin 4:   Normally Open Relay Contact - ZONE1A-STEP-FORWARD-RELAY
Pin 5:   Normally Closed Relay Contact

Address: 381
149CT30
Single Relay Module
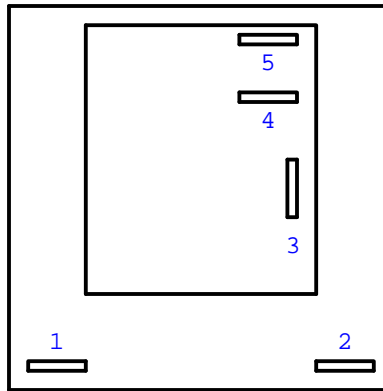
Location: Storage Bay-Front

Description: Step Cover Control

```
        ┌─────────────────┐
        │   ┌──────────┐   │
        │   │    ▭ 5   │   │
        │   │    ▭ 4   │   │
        │   │    ▯     │   │
        │   │      3   │   │
        │   └──────────┘   │
        │  ▭ 1        ▭ 2  │
        └─────────────────┘
```

Pin 1:   +EPlex
Pin 2:   -EPlex
Pin 3:   Common Relay Contact
Pin 4:   Normally Open Relay Contact - ZONE1A-STEP-REVERSE-RELAY
Pin 5:   Normally Closed Relay Contact

Address: 382
149CT30
Single Relay Module

Location: Kitchen

Description: Garbage Disposal 120VAC
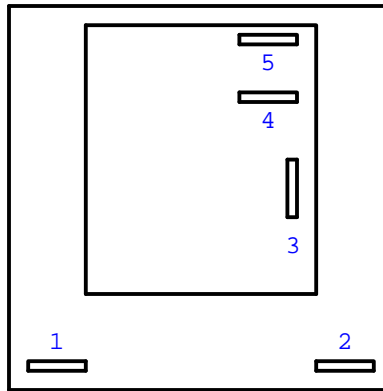
Pin 1:   +EPlex
Pin 2:   -EPlex
Pin 3:   Common Relay Contact
Pin 4:   Normally Open Relay Contact - ZONE1-DISPOSAL-SW-TOGGLE
Pin 5:   Normally Closed Relay Contact

Address: 385

331BMI
Inductive Battery Monitor

Location:

Description: Inverter Monitor 1

Cable Pass
Through

Activity
LED

-EPlex

+EPlex

+Battery

Maximum Volts: 30.0V   Maximum Current: 100A

Address: 405

Location:

Description: Inverter Monitor 2

Cable Pass
Through

Activity
LED

-EPlex

+EPlex
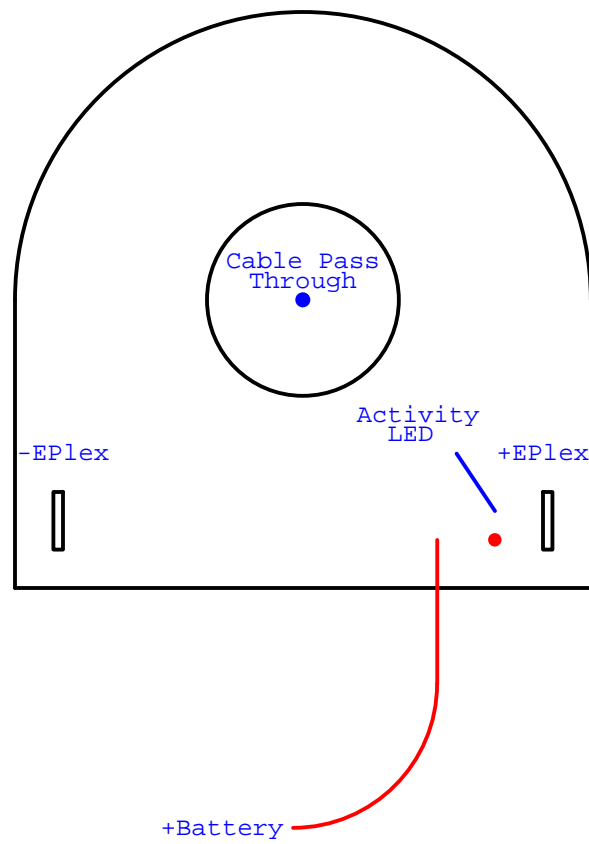
+Battery

Maximum Volts: 30.0V   Maximum Current: 100A

Address: 425

Location:

Description: 12V Load Monitor

Cable Pass
Through

Activity
LED

-EPlex

+EPlex

+Battery
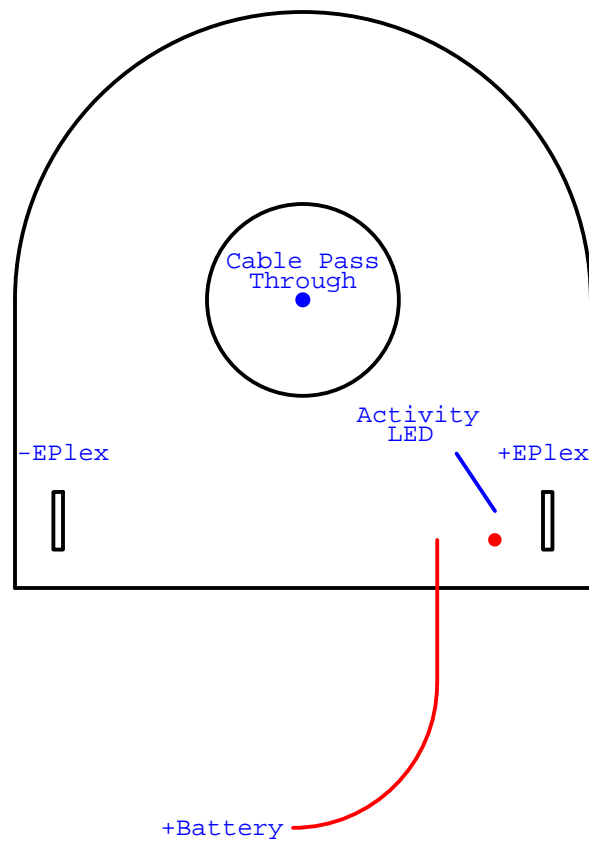
Maximum Volts: 30.0V   Maximum Current: 100A

Address: 445

336PFM
Power Frequency Monitor

Location:

+EPlex

−EPlex

L1
Bus Bar
Pass
Through

Neutral
Bus Bar
Pass
Through

L2
Bus Bar
Pass
Through

L1
Wire

Neutral
Wire

L2
Wire
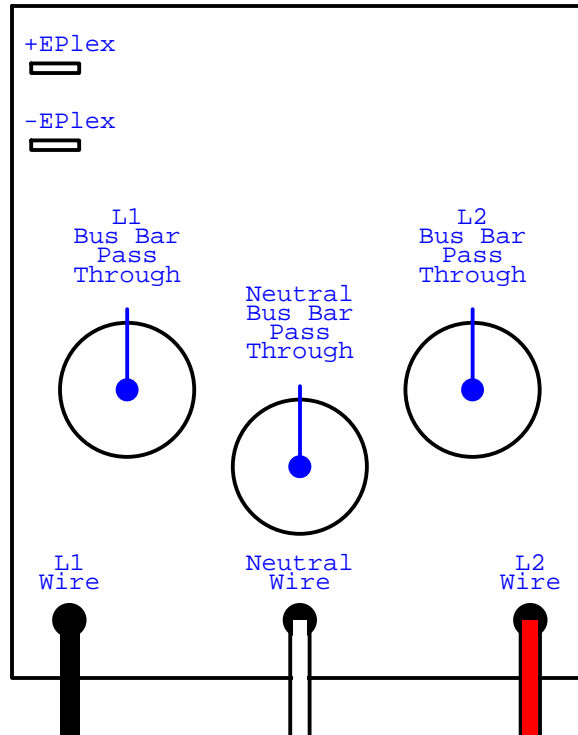
L1 (Black), NEUTRAL (White), and L2 (Red) wires must be electrically connected to read voltages.

L1 and L2 bus bars/cables must pass through openings to read current.

Neutral bus bar pass through is optional.

Maximum Volts: 250V   Maximum Current: 100A

Address: 496
436MMX
Multimodule x10

Location: Bathroom Closet

Description: Zone1-Lighting Control
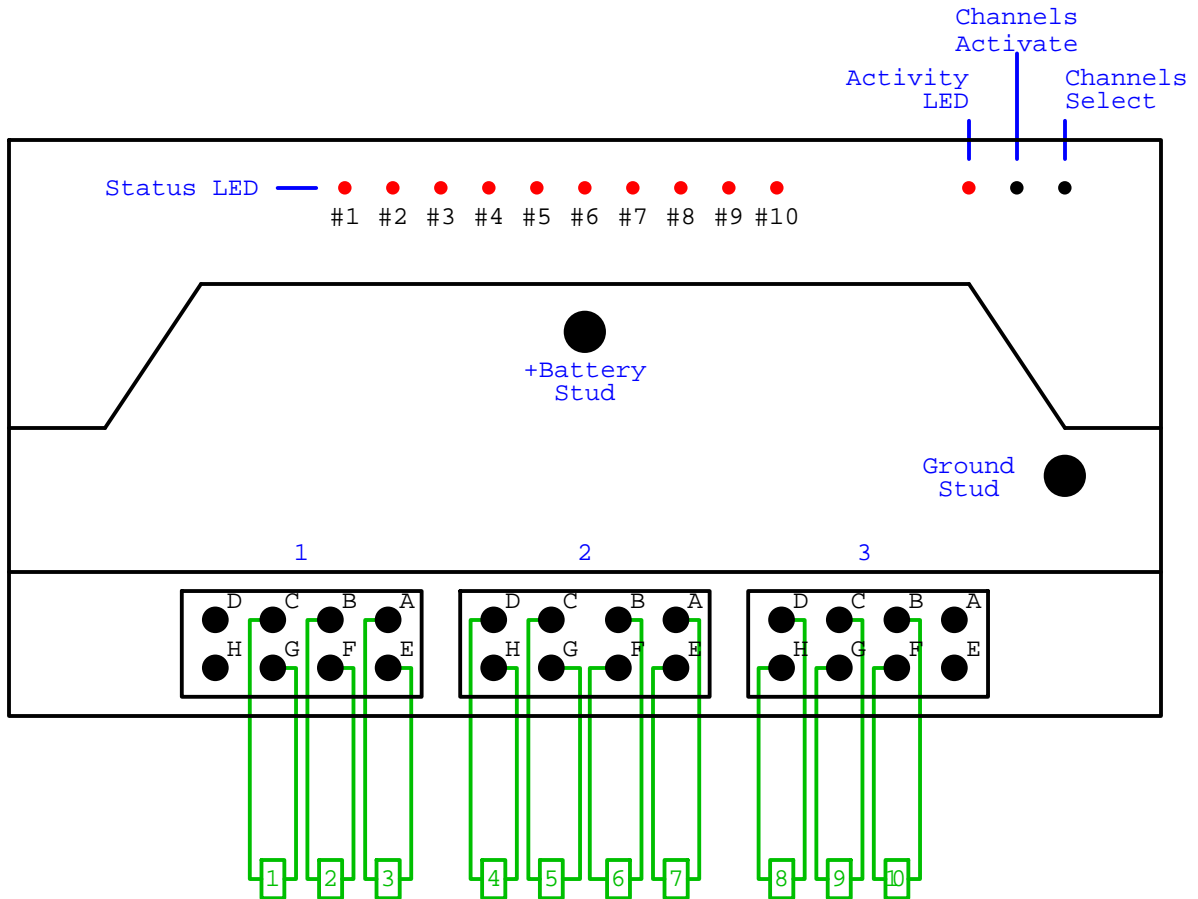
CH	CIRCUIT DESCRIPTION	AMPS	DEFAULT	O/CCT FLT	TERMINALS
	E-PLEX DATA BUS				(1D:DATA+/1H:DATA-)
1:		5A	ON	NO	(1C:LOAD/1G:RETURN)
2:		5A	NONE	NO	(1B:LOAD/1F:RETURN)
3:		5A	NONE	NO	(1A:LOAD/1E:RETURN)
4:		5A	NONE	NO	(2D:LOAD/2H:RETURN)
5:	ZONE1-SW-A/C-LOW	15A	NONE	NO	(2C:LOAD/2G:RETURN)
6:	ZONE1-SW-A/C-HIGH	15A	NONE	NO	(2B:LOAD/2F:RETURN)
7:	ZONE1-SW-A/C1-COMP	5A	NONE	NO	(2A:LOAD/2E:RETURN)
8:	ZONE1-SW-A/C-LOW	5A	NONE	NO	(3D:LOAD/3H:RETURN)
9:	ZONE1-SW-A/C-HIGH	5A	NONE	NO	(3C:LOAD/3G:RETURN)
10:	ZONE1-SW-A/C2-COMP	5A	NONE	NO	(3B:LOAD/3F:RETURN)
	E-PLEX DATA BUS				(3A:DATA+/3E:DATA-)

Address: 518
436MMX
Multimodule x10

Location: Dining Slideout

Description: Zone1-Lighting/Awning Control
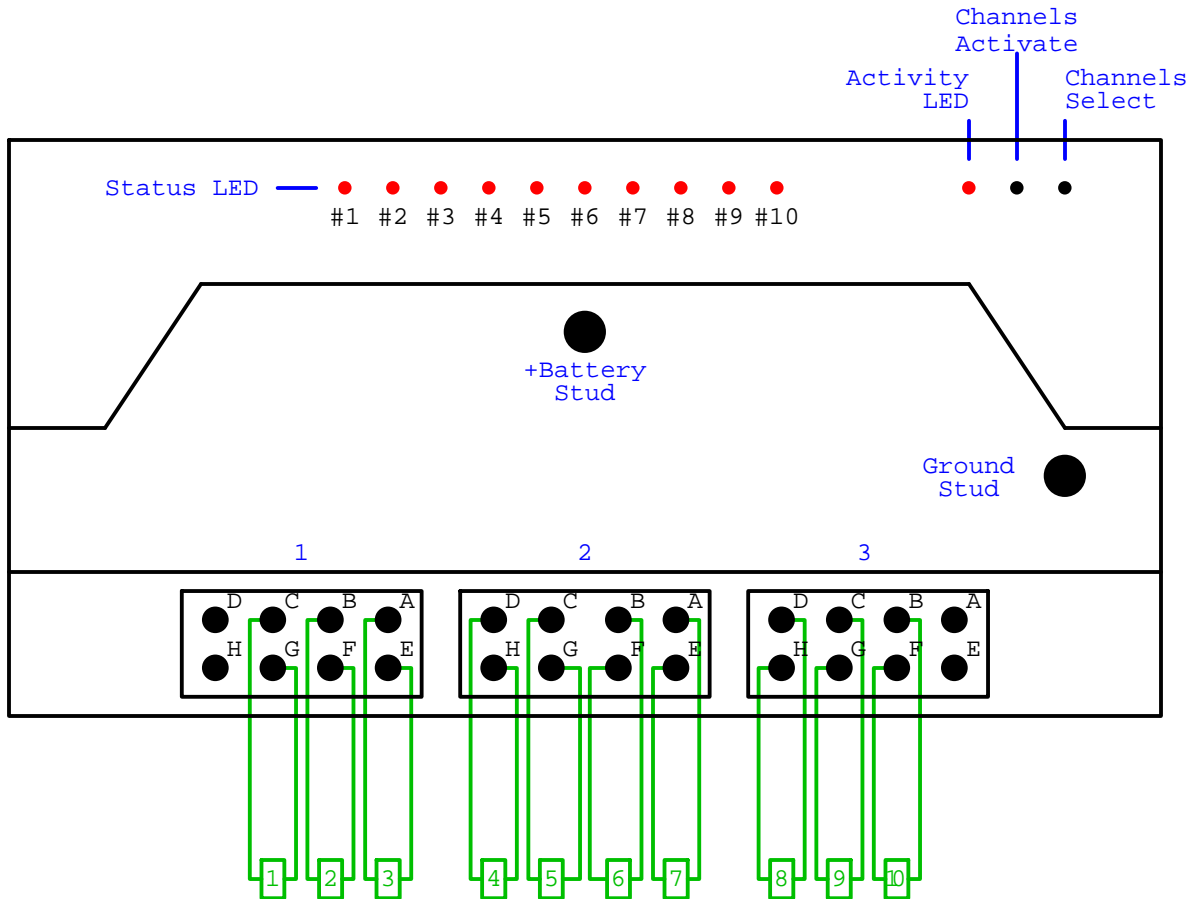
CH	CIRCUIT DESCRIPTION	AMPS	DEFAULT	O/CCT	FLT	TERMINALS
	E-PLEX DATA BUS					(1D:DATA+/1H:DATA-)
1:		0A	NONE	NO		(1C:LOAD/1G:RETURN)
2:		0A	NONE	NO		(1B:LOAD/1F:RETURN)
3:		0A	NONE	NO		(1A:LOAD/1E:RETURN)
4:		0A	NONE	NO		(2D:LOAD/2H:RETURN)
5:	OUTSIDE-A1-SW-IN	0A	NONE	NO		(2C:LOAD/2G:RETURN)
6:	OUTSIDE-A1-SW-OUT	0A	NONE	NO		(2B:LOAD/2F:RETURN)
7:		0A	NONE	NO		(2A:LOAD/2E:RETURN)
8:		0A	NONE	NO		(3D:LOAD/3H:RETURN)
9:		0A	NONE	NO		(3C:LOAD/3G:RETURN)
10:		0A	NONE	NO		(3B:LOAD/3F:RETURN)
	E-PLEX DATA BUS					(3A:DATA+/3E:DATA-)

Address: 540

436MMX
Multimodule x10

Location: Bathroom Closet

Description: Zone2-Bathroom Control

Channels
Activate

Activity   Channels
LED   Select

Status LED —   ● ● ● ● ● ● ● ● ● ●   ● ● ●
#1 #2 #3 #4 #5 #6 #7 #8 #9 #10

+Battery
Stud

Ground
Stud

1   2   3

CH	CIRCUIT DESCRIPTION	AMPS	DEFAULT	O/CCT FLT	TERMINALS
	E-PLEX DATA BUS				(1D:DATA+/1H:DATA-)
1:		0A	NONE	NO	(1C:LOAD/1G:RETURN)
2:		0A	NONE	NO	(1B:LOAD/1F:RETURN)
3:		0A	NONE	NO	(1A:LOAD/1E:RETURN)
4:		0A	NONE	NO	(2D:LOAD/2H:RETURN)
5:		0A	NONE	NO	(2C:LOAD/2G:RETURN)
6:		0A	NONE	NO	(2B:LOAD/2F:RETURN)
7:	ZONE2-PD1-ON-OPEN	0A	NONE	NO	(2A:LOAD/2E:RETURN)
8:	ZONE2-PD1-ON-CLOSE	0A	NONE	NO	(3D:LOAD/3H:RETURN)
9:	ZONE2-PD2-ON-OPEN	0A	NONE	NO	(3C:LOAD/3G:RETURN)
10:	ZONE2-PD2-ON-CLOSE	0A	NONE	NO	(3B:LOAD/3F:RETURN)
	E-PLEX DATA BUS				(3A:DATA+/3E:DATA-)

Address: 562

436MMX
Multimodule x10

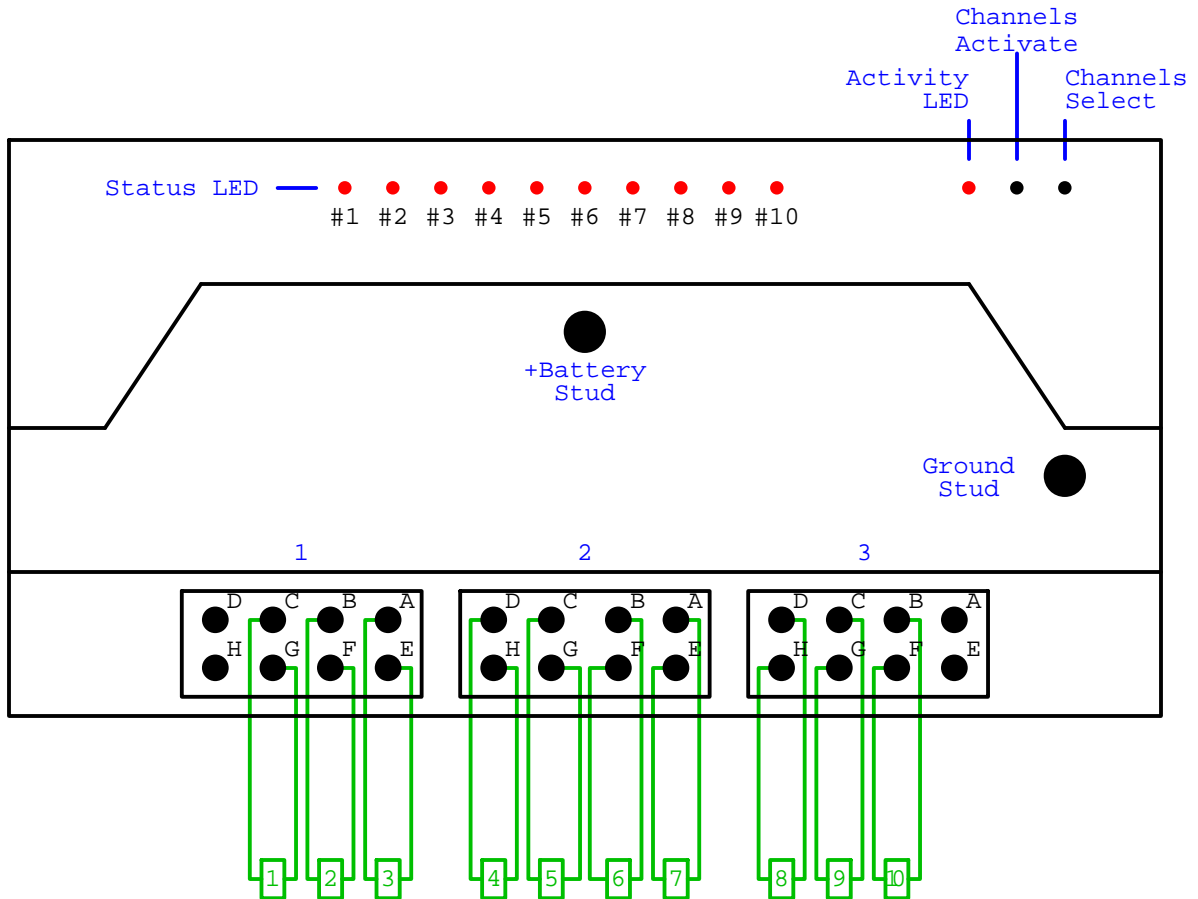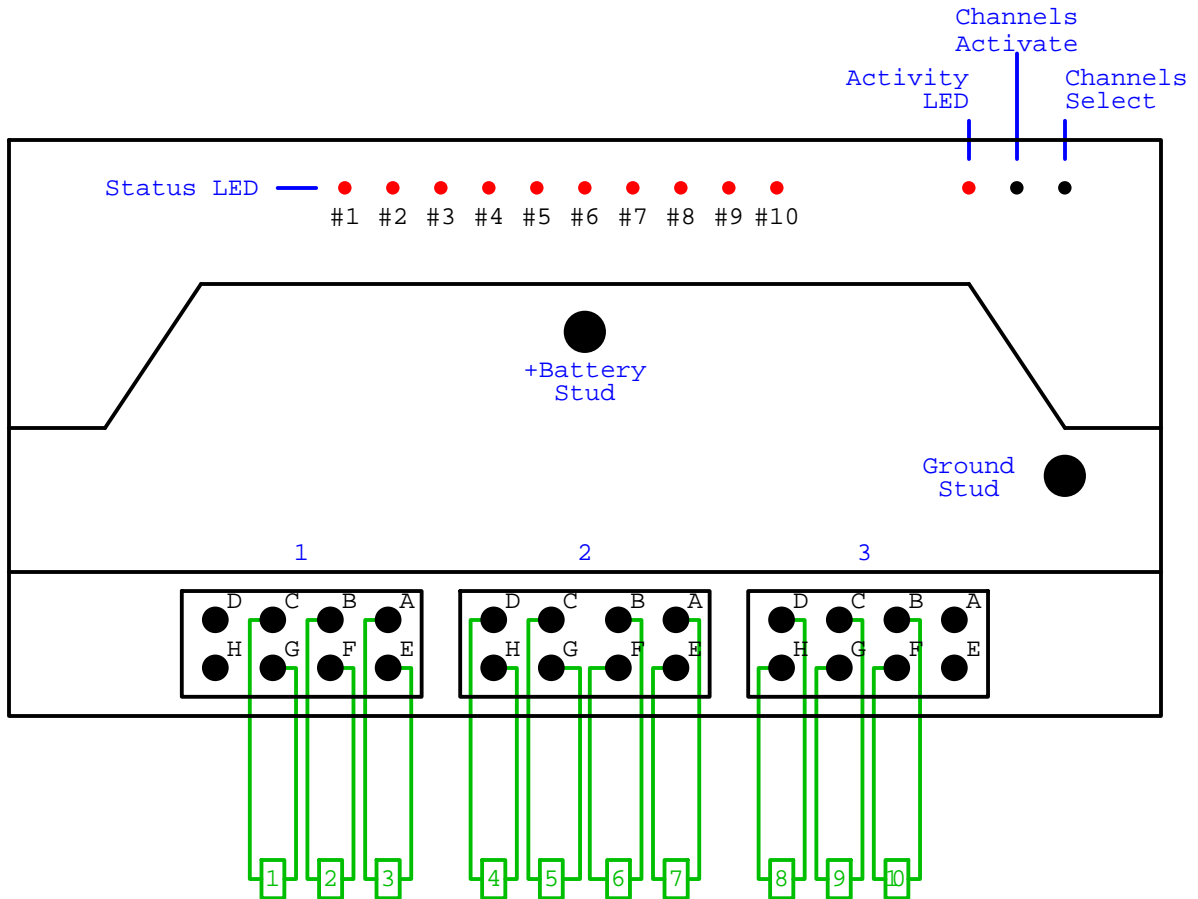Location: Bathroom Closet

Description: Zone3-Bedroom Control

Channels
Activate

Activity   Channels
LED   Select

Status LED —— ● ● ● ● ● ● ● ● ● ●   ● ● ●
               #1 #2 #3 #4 #5 #6 #7 #8 #9 #10

+Battery
Stud

Ground
Stud

| 1 | 2 | 3 |

D C B A   D C B A   D C B A
H G F E   H G F E   H G F E

| 1 | 2 | 3 | | 4 | 5 | 6 | 7 | | 8 | 9 | 10 |

CH	CIRCUIT DESCRIPTION	AMPS	DEFAULT	O/CCT	FLT	TERMINALS
	E-PLEX DATA BUS					(1D:DATA+/1H:DATA-)
1:		0A	NONE	NO		(1C:LOAD/1G:RETURN)
2:		0A	NONE	NO		(1B:LOAD/1F:RETURN)
3:		0A	NONE	NO		(1A:LOAD/1E:RETURN)
4:		0A	NONE	NO		(2D:LOAD/2H:RETURN)
5:		0A	NONE	NO		(2C:LOAD/2G:RETURN)
6:		0A	NONE	NO		(2B:LOAD/2F:RETURN)
7:		0A	NONE	NO		(2A:LOAD/2E:RETURN)
8:		0A	NONE	NO		(3D:LOAD/3H:RETURN)
9:		0A	NONE	NO		(3C:LOAD/3G:RETURN)
10:		0A	NONE	NO		(3B:LOAD/3F:RETURN)
	E-PLEX DATA BUS					(3A:DATA+/3E:DATA-)

Address: 584

436MMX
Multimodule x10

Location: Bathroom Closet

Description: Zone0-Storage Bay Control

Channels
Activate

Activity   Channels
LED   Select

Status LED —— ● ● ● ● ● ● ● ● ● ●   ● ● ●
#1 #2 #3 #4 #5 #6 #7 #8 #9 #10

+Battery
Stud

Ground
Stud

1   2   3

D C B A   D C B A   D C B A
H G F E   H G F E   H G F E

[1] [2] [3]   [4] [5] [6] [7]   [8] [9] [10]

CH	CIRCUIT DESCRIPTION	AMPS	DEFAULT	O/CCT	FLT	TERMINALS
	E-PLEX DATA BUS					(1D:DATA+/1H:DATA-)
1:		5A	NONE	NO		(1C:LOAD/1G:RETURN)
2:		5A	NONE	NO		(1B:LOAD/1F:RETURN)
3:		5A	NONE	NO		(1A:LOAD/1E:RETURN)
4:		5A	NONE	NO		(2D:LOAD/2H:RETURN)
5:	ZONE0-WATERPUMP-SW	2A	NONE	NO		(2C:LOAD/2G:RETURN)
6:		2A	NONE	NO		(2B:LOAD/2F:RETURN)
7:		5A	NONE	NO		(2A:LOAD/2E:RETURN)
8:	ZONE2-L8B-ON	5A	NONE	NO		(3D:LOAD/3H:RETURN)
9:		5A	NONE	NO		(3C:LOAD/3G:RETURN)
10:		5A	NONE	NO		(3B:LOAD/3F:RETURN)
	E-PLEX DATA BUS					(3A:DATA+/3E:DATA-)

Address: 606

436MMX
Multimodule x10

Location: Storage Bay by Step

Description: Zone0-Step/Awning Control
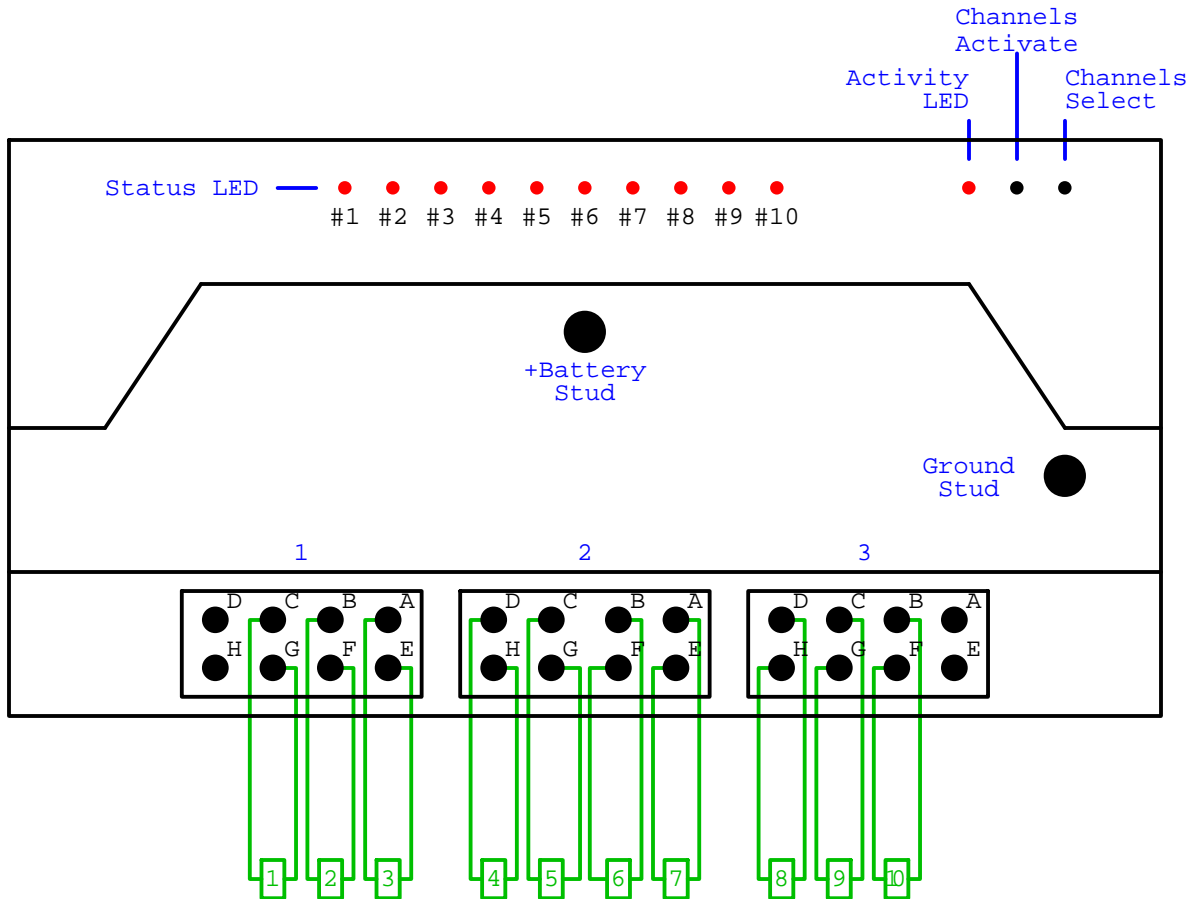
CH	CIRCUIT DESCRIPTION	AMPS	DEFAULT	O/CCT FLT	TERMINALS
	E-PLEX DATA BUS				(1D:DATA+/1H:DATA-)
1:	ZONE0-BOX LIGHTS-ON	5A	NONE	NO	(1C:LOAD/1G:RETURN)
2:	ZONE0-BOX LIGHTS-ON	5A	NONE	NO	(1B:LOAD/1F:RETURN)
3:		5A	NONE	NO	(1A:LOAD/1E:RETURN)
4:		5A	NONE	NO	(2D:LOAD/2H:RETURN)
5:	ZONE1A-STEP-ON	2A	NONE	NO	(2C:LOAD/2G:RETURN)
6:	ZONE1A-STEP-ON	2A	NONE	NO	(2B:LOAD/2F:RETURN)
7:		5A	NONE	NO	(2A:LOAD/2E:RETURN)
8:		5A	NONE	NO	(3D:LOAD/3H:RETURN)
9:		5A	NONE	NO	(3C:LOAD/3G:RETURN)
10:		5A	NONE	NO	(3B:LOAD/3F:RETURN)
	E-PLEX DATA BUS				(3A:DATA+/3E:DATA-)

Address: 908

318PFTG
Pressure Tank Sensor

Location:

+EPlex   -EPlex
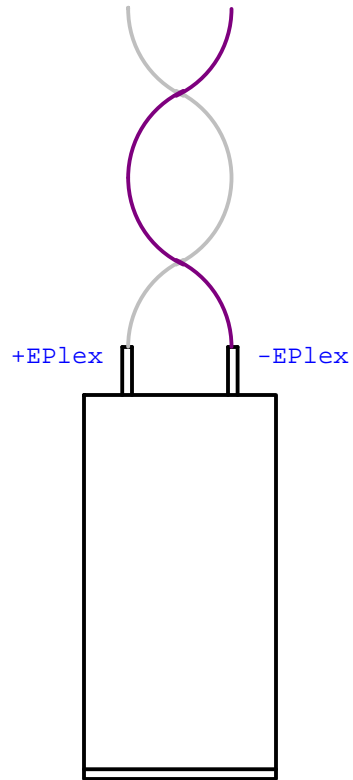
Address: 924

318PFTG
Pressure Tank Sensor
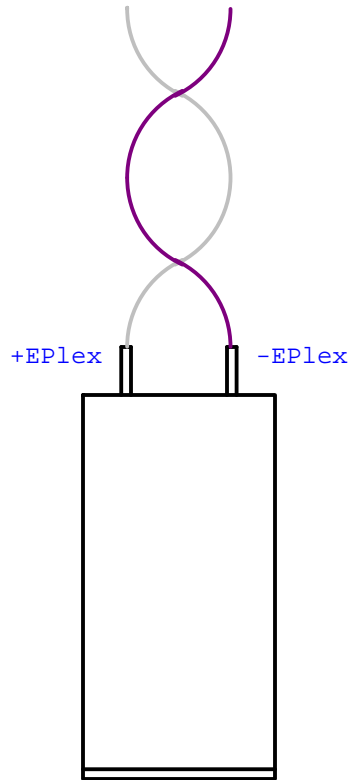
Location:

+EPlex   -EPlex
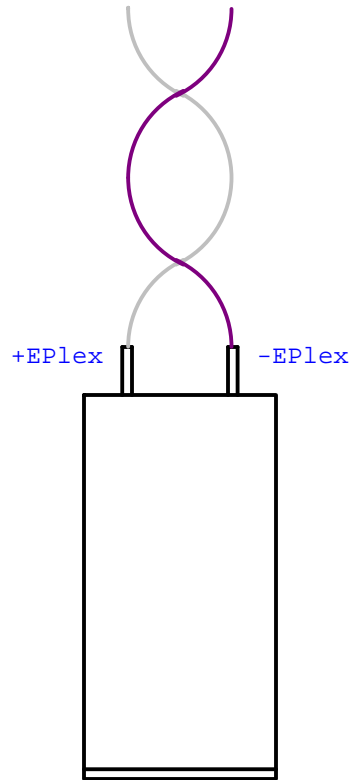
Address: 940
318PFTG
Pressure Tank Sensor

Location:

+EPlex   -EPlex

Address: 988

356DRIM
Dual Relay Input Module

Location:

Address: 992

356DRIM
Dual Relay Input Module

Location: