

# WHELEN<sup>®</sup>

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## Installation Guide: CS Plus Control Point Module for WeCan<sup>®</sup> Lightbars

Automotive: Serial Communication

### Overview -

The Control Point Module serves as the 'brains' of the Whelen WC Series lightbar.

Each of the 18 inputs activate installed lightbar components. This is accomplished by applying +12VDC to an input. Refer to the sample wiring diagrams shown on pgs. 2 through 4, or the installation guide included with your switches for detailed wiring information.

Note - The pattern override feature will override all active LED lighthoods with the pattern override flash pattern.

### DEFAULT CONFIGURATION (12V Inputs)

POS	COLOR	FUNCTION
1	GREEN	FRONT CORNER LEDs
2	GRN/WHT	FRONT OUTBOARD LEDs
3	GRN/BLK	FRONT INBOARD LEDs
4	WHT/RED	FRONT CENTER LEDs
5	WHITE	DRIVER ALLEY
6	YELLOW	PASSENGER ALLEY
7	WHT/VIO	ALL BAR
8	WHT/GRN*	RIGHT TRAFFIC ADVISOR™
9	WHT/ORG	CRUISE LIGHTS
10	BLUE	REAR CORNER LEDs
11	BLU/WHT	REAR OUTBOARD LEDs
12	BLU/BLK	REAR INBOARD LEDs
13	WHT/BRN	REAR CENTER LEDs
14	WHT/BLK	TAKE-DOWNS
15	WHT/BLU	FLASHING TAKE-DOWN / ALLEY
16	RED/WHT	PATTERN OVERRIDE
17	WHT/YEL*	LEFT TRAFFIC ADVISOR
18	VIOLET	LOW POWER

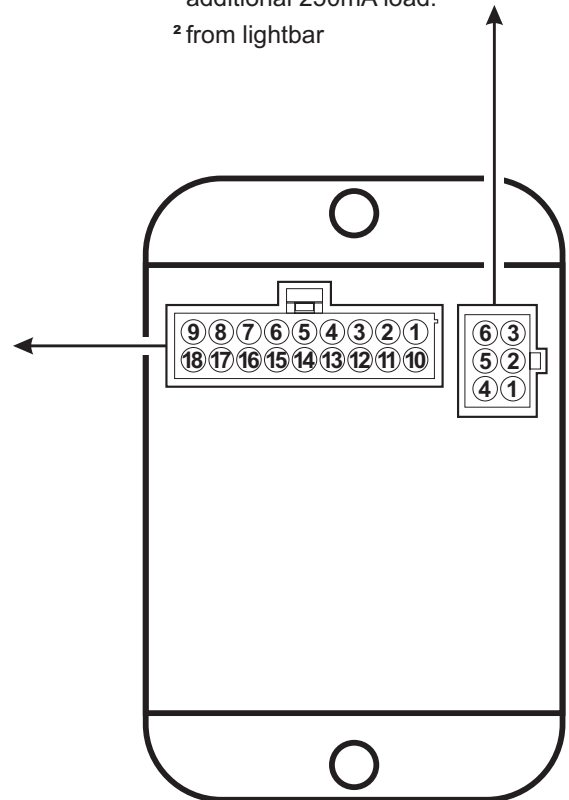
\*NOTE: Apply +12VDC to the WHT/GRN and WHT/YEL wires simultaneously for split Traffic Advisor.

### LIGHTBAR CABLE CONNECTOR

POS	COLOR	FUNCTION
1	RED <sup>1</sup>	+12VDC
2	None	
3	BLACK	GROUND
4	GREEN <sup>2</sup>	COMM. A
5	BLK/WHT <sup>2</sup>	SHIELD
6	GREY <sup>2</sup>	COMM. B

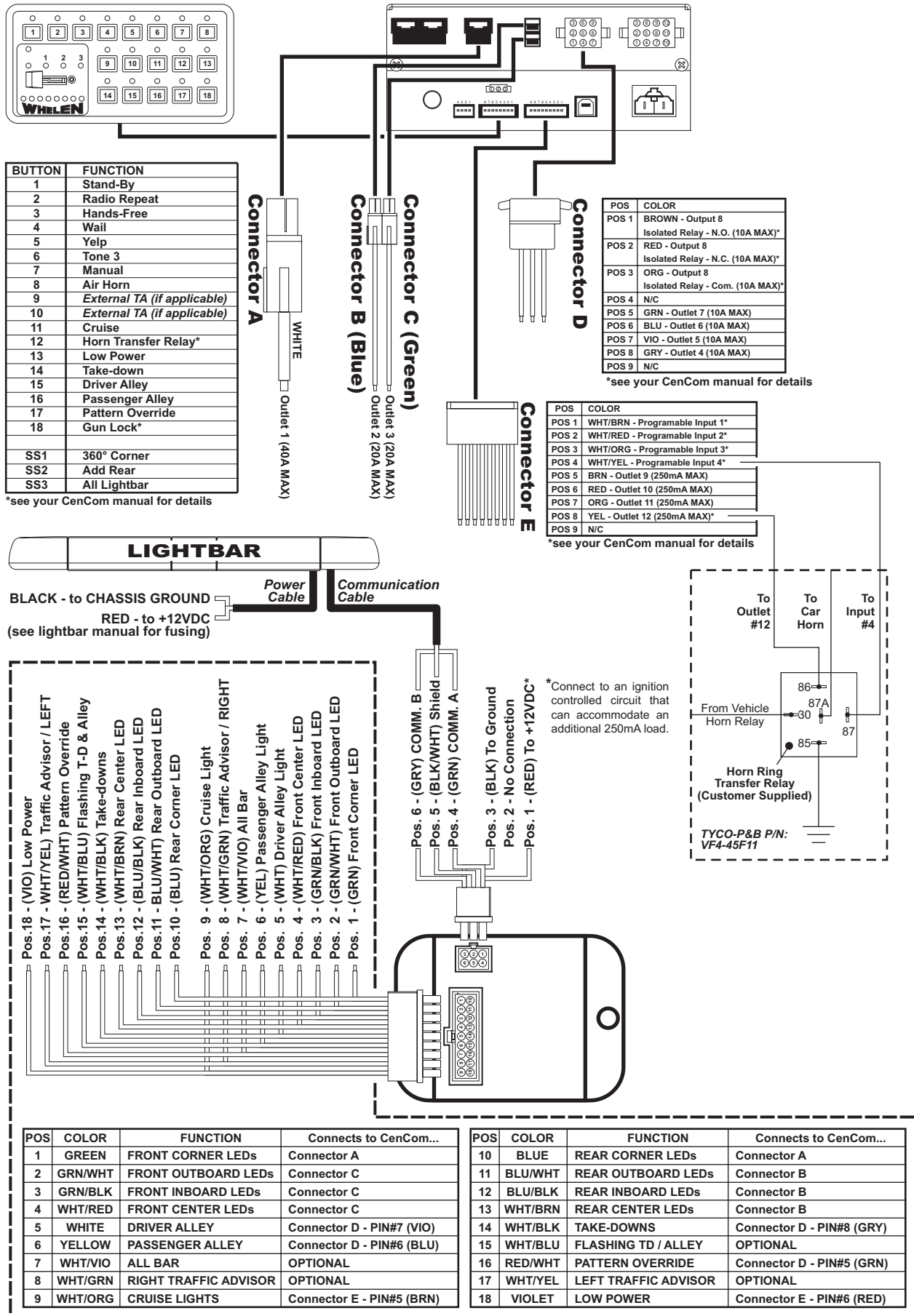
<sup>1</sup> Connect to an ignition controlled circuit that can accommodate an additional 250mA load.

<sup>2</sup> from lightbar

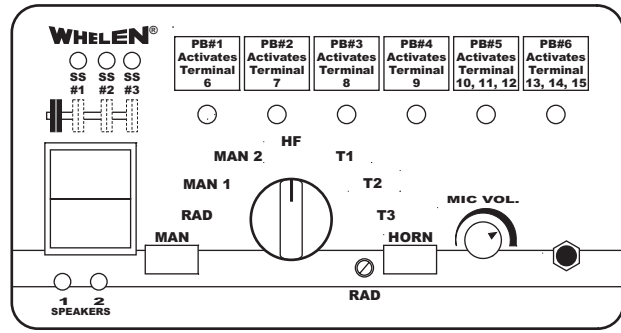
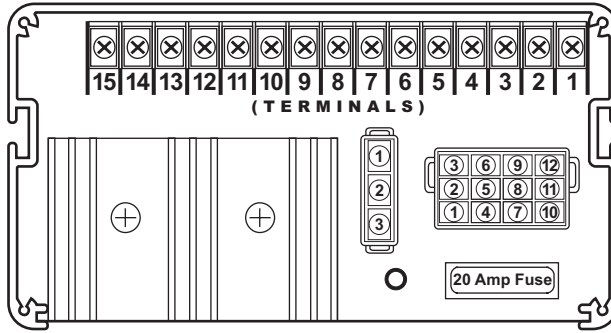


**For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)**

**Example #1: Typical CenCom™ layout. Consult your CenCom manual before making any changes to this circuit.**



Example #2: Integrating a WeCan® Control Point Module into a 295SLS\*6 System.

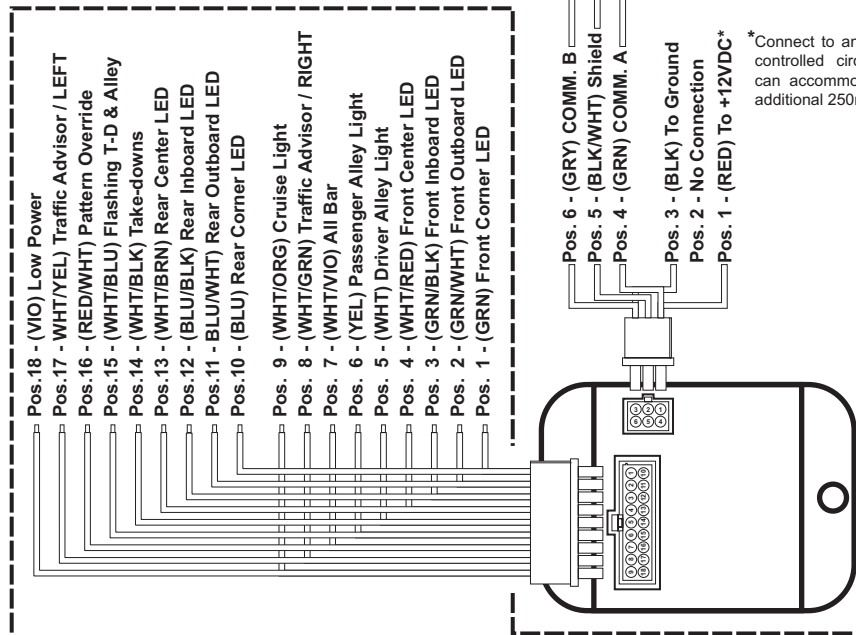


TERMINAL	FUNCTION
1	Slide Switch #1
2	Slide Switch #2
3	
4	Slide Switch #3
5	
6	Push Button #1
7	Push Button #2
8	Push Button #3
9	Push Button #4
10	
11	Push Button #5
12	
13	
14	Push Button #6
15	

BUTTON	FUNCTION
1	Take-downs
2	Driver Alley Light
3	Passenger Alley Light
4	Traffic Advisor™ Left
5	Traffic Advisor Right
6	Low Power
SS1	Front & Rear Corner LEDs
SS2	Add Rear LEDs
SS3	Add Front LEDs



BLACK - to CHASSIS GROUND  
 RED - to +12VDC  
 (see lightbar manual for fusing)

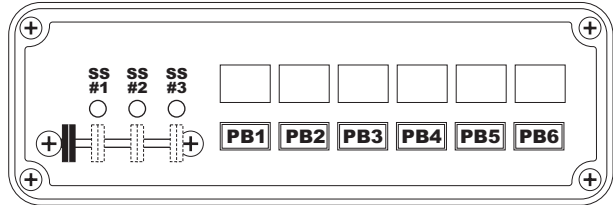
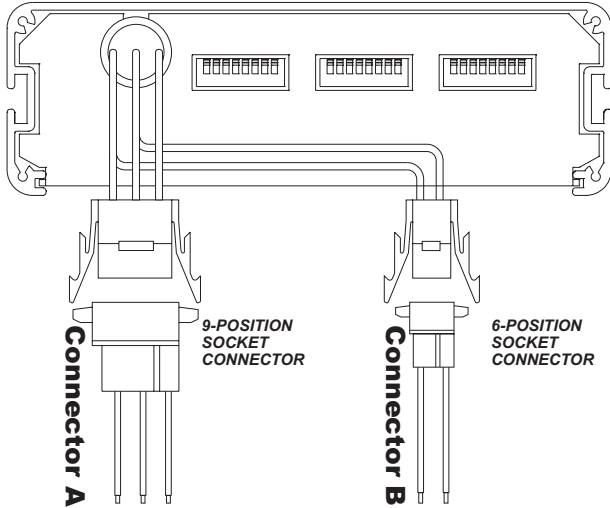


\*Connect to an ignition controlled circuit that can accommodate an additional 250mA load.

POS	COLOR	FUNCTION	Connects to...
1	GREEN	FRONT CORNER LEDs	Terminal 1 (SS#1)
2	GRN/WHT	FRONT OUTBOARD LEDs	Terminal 3 (SS#3)
3	GRN/BLK	FRONT INBOARD LEDs	Terminal 4 (SS#3)
4	WHT/RED	FRONT CENTER LEDs	Terminal 5 (SS#3)
5	WHITE	DRIVER ALLEY	Terminal 7 (PB#2)
6	YELLOW	PASSENGER ALLEY	Terminal 8 (PB#3)
7	WHT/VIO	ALL BAR	OPTIONAL
8	WHT/GRN	RIGHT TRAFFIC ADVISOR	Terminal 10 (PH#5)
9	WHT/ORG	CRUISE LIGHTS	OPTIONAL

POS	COLOR	FUNCTION	Connects to...
10	BLUE	REAR CORNER LEDs	Terminal 1 (SS#1)
11	BLU/WHT	REAR OUTBOARD LEDs	Terminal 2 (SS#2)
12	BLU/BLK	REAR INBOARD LEDs	Terminal 2 (SS#2)
13	WHT/BRN	REAR CENTER LEDs	Terminal 2 (SS#2)
14	WHT/BLK	TAKE-DOWNS	Terminal 6 (PB#1)
15	WHT/BLU	FLASHING TD / ALLEY	OPTIONAL
16	RED/WHT	PATTERN OVERRIDE	OPTIONAL
17	WHT/YEL	LEFT TRAFFIC ADVISOR	Terminal 9 (PB#4)
18	VIOLET	LOW POWER	Terminal 13 (PB#6)

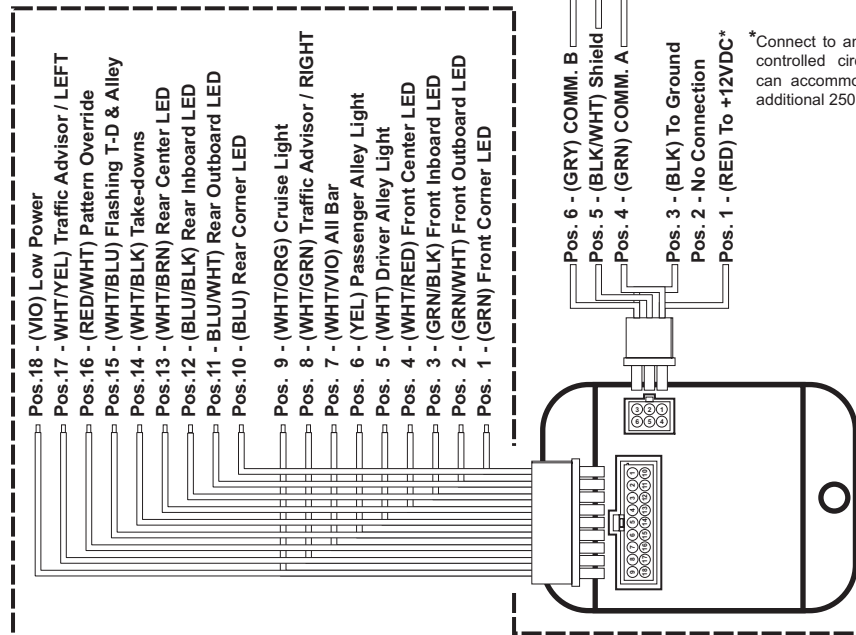
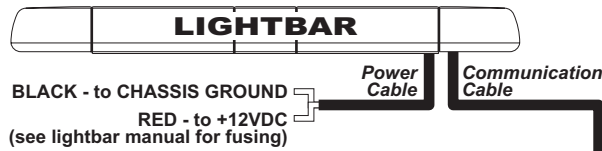
Example #3: Integrating a WeCan® Control Point Module into a PCCS9NP System.



BUTTON	FUNCTION
PB1	Take-downs
PB2	Driver Alley Light
PB3	Passenger Alley Light
PB4	Traffic Advisor™ Left
PB5	Traffic Advisor Right
PB6	Low Power
SS1	Front & Rear Corner LEDs
SS2	Add Rear LEDs
SS3	Add Front LEDs

POS	COLOR
POS 1	GREEN - Slide Switch #1
POS 2	BROWN - See PCCS9NP manual
POS 3	VIOLET - PB Switch #9 (mom)
POS 4	BLUE - Slide Switch #3
POS 5	GRY - Slide Switch #2
POS 6	WHT - PB Switch #5
POS 7	YEL - PB Switch #6
POS 8	ORG - PB Switch #7
POS 9	WHT/BLK - PB Switch #4

POS	COLOR
POS 1	RED - See PCCS9NP manual
POS 2	BLACK - Chassis Ground
POS 3	WHT/GRN - To Aux Siren (option)
POS 4	BLK/WHT - PB Switch #8
POS 5	WHT/RED - To +12V (backlight)



\*Connect to an ignition controlled circuit that can accommodate an additional 250mA load.

POS	COLOR	FUNCTION	Connects to...
1	GREEN	FRONT CORNER LEDs	Connector A - Pos. 1 (SS#1)
2	GRN/WHT	FRONT OUTBOARD LEDs	Connector A - Pos. 4 (SS#3)
3	GRN/BLK	FRONT INBOARD LEDs	Connector A - Pos. 4 (SS#3)
4	WHT/RED	FRONT CENTER LEDs	Connector A - Pos. 4 (SS#3)
5	WHITE	DRIVER ALLEY	Connector A - Pos. 6 (PB#2)
6	YELLOW	PASSENGER ALLEY	Connector A - Pos. 7 (PB#3)
7	WHT/VIO	ALL BAR	OPTIONAL
8	WHT/GRN	RIGHT TRAFFIC ADVISOR	Connector B - Pos. 4 (SS#5)
9	WHT/ORG	CRUISE LIGHTS	OPTIONAL

POS	COLOR	FUNCTION	Connects to...
10	BLUE	REAR CORNER LEDs	Connector A - Pos. 1 (SS#1)
11	BLU/WHT	REAR OUTBOARD LEDs	Connector A - Pos. 5 (SS#2)
12	BLU/BLK	REAR INBOARD LEDs	Connector A - Pos. 5 (SS#2)
13	WHT/BRN	REAR CENTER LEDs	Connector A - Pos. 5 (SS#2)
14	WHT/BLK	TAKE-DOWNS	Connector A - Pos. 9 (PB#1)
15	WHT/BLU	FLASHING TD / ALLEY	OPTIONAL
16	RED/WHT	PATTERN OVERRIDE	OPTIONAL
17	WHT/YEL	LEFT TRAFFIC ADVISOR	Connector A - Pos. 8 (PB#4)
18	VIOLET	LOW POWER	Connector A - Pos. 3 (PB#6)