Overview -

The Control Point Module serves as the 'brains' of the Whelen WC Series lightbar. The module is programmed with the WeCan™ Programming Software via the USB port and in turn, provides the necessary signals that allow the lightbar to function in the desired manner.

As represented in the WeCan™ Programming software, each of the 18 inputs may be programmed to activate any number or combination of the 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 lightheads with the pattern override flash pattern.

Programming Procedure -

IMPORTANT - It is not necessary to program this device unless changes to the default configuration (for example pattern or switch control changes) are desired.

1. Connect a USB cable from the host PC to the module's USB port.
2. Start the WeCan software on the host PC and open the configuration to be programmed.
3. Click on the "WeCan" button on the menu bar. Select "Control Point" then "Program" from the fly-out.
4. A window will open to confirm that you are about to program a Control Point Module. Confirm that the USB cable is connected to both the module and the PC and then press "OK" to continue. The software will display a window when the programming procedure has been successfully completed.
5. Confirm proper operation of the module.

For warranty information regarding this product, visit www.whelen.com/warranty
Example #1: Typical CenCom™ layout. Consult your CenCom manual before making any changes to this circuit.

**BUTTON** | **FUNCTION**
--- | ---
1 | Stand-by
2 | Radio Repeat
3 | Hands-Free
4 | Wall
5 | Yard
6 | Tone 3
7 | Manual
8 | Air Horn
9 | External TA (if applicable)
10 | External TA (if applicable)
11 | Cruise
12 | Horn Transfer Relay*
13 | Low Power
14 | Take-down
15 | Passenger Alley
16 | Driver Alley
17 | Steady Override
18 | Gun Lock*

POS 1 - (RED) To +12VDC*
POS 2 - (GRN) Front Pattern 1
POS 3 - (BLK) To Ground
POS 4 - (YEL) COMM. B
POS 5 - (GRN) COMM. A
POS 6 - (WHT/RED) Front Pattern 4
POS 7 - (YEL/RED) Driver Alley Light
POS 8 - (WHT/VIO) Cruise Light
POS 9 - (WHT/ORG) Passenger Alley Light
POS 10 - (BLU) Rear Pattern 1
POS 11 - (BLU/WHT) Rear Pattern 2
POS 12 - (BLU/BLK) Rear Pattern 3
POS 13 - (WHT/BRN) Rear Pattern 4
POS 14 - (WHT/BLK) COMM. A
POS 15 - (WHT/BLU) COMM. B
POS 16 - (GRN/WHT) Front Pattern 2
POS 17 - (RED/WHT) Steady Override
POS 18 - (VIO) Low Power

---

**COLOR** | **FUNCTION** | **Connects to CenCom...**
--- | --- | ---
1 | GREEN | FRONT PATTERN 1
2 | GRN/WHT | FRONT PATTERN 2
3 | GRN/BLK | FRONT PATTERN 3
4 | WHT/RED | FRONT PATTERN 4
5 | WHITE | DRIVER ALLEY
6 | YELLOW | PASSENGER ALLEY
7 | WHT/VIO | AUX
8 | WHT/BRN | RIGHT TRAFFIC ADVISOR
9 | WHT/ORG | CRUISE LIGHTS
10 | BLUE | REAR PATTERN 1
11 | BLU/WHT | REAR PATTERN 2
12 | BLU/BLK | REAR PATTERN 3
13 | WHT/BRN | REAR PATTERN
14 | WHT/BLK | TAKE-DOWNS
15 | WHT/BLU | FLASHING TD / ALLEY
16 | RED/WHT | PATTERN OVERRIDE
17 | WHT/YEL | LEFT TRAFFIC ADVISOR
18 | VIOLET | LOW POWER

---

*see your CenCom manual for details

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**POWER CABLE**
**COMMUNICATION CABLE**

---

**TO Outlet #12**
**TO Car Horn**
**TO Input #4**

---

*Connect to a horn controlled circuit that can accommodate an additional 250mA load.

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**TYCO-P&B P/N:** VF4-45F11
Example #2: Integrating a WeCan® Control Point Module into a 295SLS®6 System.

FUNCTION
- Take-downs
- Driver Alley Light
- Passenger Alley Light
- Traffic Advisor™ Left
- Traffic Advisor Right
- Low Power

BUTTON
- PB1: Take-downs
- PB2: Driver Alley Light
- PB3: Passenger Alley Light
- PB4: Traffic Advisor™ Left
- PB5: Traffic Advisor Right
- PB6: Low Power
- SS1: Rear
- SS2: Front + Rear
- SS3: Front + Rear + Flashing Take-Downs

**LIGHTBAR**
- BLACK - to CHASSIS GROUND
- RED - to +12VDC

**CONNECT TO**
- Terminal 2 (SS#2)
- Terminal 1 (SS#1)
- Terminal 3 (SS#3)
- Terminal 9 (PB#4)
- Terminal 13 (PB#6)

**POS**
1. GREEN - FRONT PATTERN 1
2. GRN/WHT - FRONT PATTERN 2
3. GRN/BLK - FRONT PATTERN 3
4. WHT/RED - FRONT PATTERN 4
5. WHITE - DRIVER ALLEY
6. YELLOW - PASSENGER ALLEY
7. WHT/YEL - AUX
8. WHT/GRN - LEFT TRAFFIC ADVISOR
9. WHT/ORG - CRUISE LIGHTS
10. BLUE - REAR PATTERN 1
11. BLU/BK - REAR PATTERN 2
12. BLU/WHN - REAR PATTERN 3
13. WHT/BRN - REAR PATTERN 4
14. WHT/BLK - TAKE-DOWNS
15. WHIT/BLU - FLASHING TD / ALLEY
16. RED/WHT - STEADY OVERRIDE
17. WHT/YEL - LEFT TRAFFIC ADVISOR
18. VIOLET - LOW POWER

**COLOR**
- GREEN
- GRN/WHT
- GRN/BLK
- WHT/RED
- WHITE
- YELLOW
- WHT/YEL
- WHT/GRN
- WHT/ORG
- BLUE
- RED
- WHT/YEL
- WHT/ORG
- VIOLET

**FUNCTION**
- Terminal 2 (SS#2)
- Optional
- Terminal 8 (PB#8)
- Optional
- Terminal 10 (PB#10)
- Optional
- Terminal 13 (PB#13)
- Optional
- Terminal 9 (PB#9)
- Optional
- Terminal 11 (PB#11)
- Optional
- Terminal 12 (PB#12)
- Optional
- Optional

**CONNECTS TO**
- Terminal 2 (SS#2)
- Terminal 1 (SS#1)
- Optional
- Terminal 7 (PB#7)
- Optional
- Terminal 8 (PB#8)
- Optional
- Terminal 10 (PB#10)
- Optional
- Terminal 6 (PB#6)
- Optional
- Optional
- Optional
- Optional
- Optional
- Optional
- Optional
- Optional

**TERMINALS**
1 - 15

**POWER CABLE**
- Pos. 1 - (GRN) Front Pattern 1
- Pos. 2 - (GRN/WHT) Front Pattern 2
- Pos. 3 - (GRN/BLK) Front Pattern 3
- Pos. 4 - (WHT/RED) Front Pattern 4
- Pos. 5 - (GRN) COMM. A
- Pos. 6 - (GRN/WHT) COMM. B
- Pos. 7 - (BLK) To Ground
- Pos. 8 - (GRY) COMM. B
- Pos. 9 - (BLK/WHT) Shield
- Pos. 10 - (BL) To Ground
- Pos. 11 - (BL/GRN) CRM.
- Pos. 12 - (BL/GY) CRM.
- Pos. 13 - (RED) To +12VDC*
- Pos. 14 - (BL/WHN) CRM.
- Pos. 15 - (RED) To +12VDC*
- Pos. 16 - (BL/WHN) CRM.
- Pos. 17 - (BL/WHN) CRM.
- Pos. 18 - (BL/WHN) CRM.

**COMMUNICATION CABLE**
- Pos. 1 - (GRN) FRONT PATTERN 1
- Pos. 2 - (GRN/WHT) FRONT PATTERN 2
- Pos. 3 - (GRN/BLK) FRONT PATTERN 3
- Pos. 4 - (WHT/RED) FRONT PATTERN 4
- Pos. 5 - (GRN) COMM. A
- Pos. 6 - (GRN/WHT) COMM. B
- Pos. 7 - (BLK) To Ground
- Pos. 8 - (GRY) COMM. B
- Pos. 9 - (BLK/WHT) Shield
- Pos. 10 - (BL) To Ground
- Pos. 11 - (BL/GRN) CRM.
- Pos. 12 - (BL/GY) CRM.
- Pos. 13 - (RED) To +12VDC*
- Pos. 14 - (BL/WHN) CRM.
- Pos. 15 - (RED) To +12VDC*
- Pos. 16 - (BL/WHN) CRM.
- Pos. 17 - (BL/WHN) CRM.
- Pos. 18 - (BL/WHN) CRM.

*Connect to an ignition controlled circuit that can accommodate an additional 250mA load.
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**: Rear
- **SS2**: Front + Rear
- **SS3**: Front + Rear + Flashing Take-Downs

### Color Codes

- **GREEN** - Slide Switch #1
- **BROWN** - Slide Switch #2
- **VIOLET** - PB Switch #9 (mom)
- **BLUE** - Slide Switch #3
- **GRY** - Slide Switch #2
- **WHT** - PB Switch #5
- **YEL** - PB Switch #6
- **ORG** - PB Switch #7
- **WHT/BLK** - PB Switch #8

### Connectors

- **Connector A**
  - POS 1 - GREEN
  - POS 2 - BROWN
  - POS 3 - GRY
  - POS 4 - BLUE
  - POS 5 - ORG
  - POS 6 - WHT/BLK
- **Connector B**
  - POS 1 - RED
  - POS 2 - BLACK
  - POS 3 - BLU/WHT
  - POS 4 - BLU/BLK
  - POS 5 - WHT/RED
  - POS 6 - WHT/VIO
  - POS 7 - WHT/GRN
  - POS 8 - WHT/ORG
  - POS 9 - WHT/BLK
  - POS 10 - WHT/RED
  - POS 11 - BLU/WHT
  - POS 12 - BLU/BLK
  - POS 13 - WHT/RED
  - POS 14 - WHT/GRN
  - POS 15 - WHT/ORG
  - POS 16 - WHT/BLK
  - POS 17 - WHT/YEL
  - POS 18 - RED/WHT

### Connect to an Ignition Controlled Circuit That Can Accommodate an Additional 250mA Load.

- **POS 1 - (RED) TO +12VDC**
- **POS 2 - NO CONNECTION**
- **POS 3 - (BLK) TO GROUND**
- **POS 4 - (GRN) COMM. A**
- **POS 5 - (BLK/WHT) SHIELD**
- **POS 6 - (GRY) COMM. B**
- **POS 7 - (BLK/WHT) TO GROUND**
- **POS 8 - (GRN) COMM. B**
- **POS 9 - (GRN/BLK) FRONT PATTERN 1**
- **POS 10 - (BLU) REAR PATTERN 1**
- **POS 11 - (BLU/WHT) REAR PATTERN 2**
- **POS 12 - (BLU/BLK) REAR PATTERN 3**
- **POS 13 - (WHT/RED) FRONT PATTERN 2**
- **POS 14 - (WHT/GRN) FRONT PATTERN 3**
- **POS 15 - (WHT/ORG) CRUISE LIGHTS**
- **POS 16 - (YELLOW) AUX**
- **POS 17 - (WHT/YEL) LEFT TRAFFIC ADVISOR**
- **POS 18 - (WHT/ORG) CRUISE LIGHTS**

### Connectors to...

- **Connector A** - Pos. 1 (SS#1)
- **Connector A** - Pos. 2 (SS#2)
- **Connector A** - Pos. 3 (SS#3)
- **Connector A** - Pos. 4 (SS#4)
- **Connector A** - Pos. 5 (SS#5)
- **Connector A** - Pos. 6 (SS#6)
- **Connector A** - Pos. 7 (SS#7)
- **Connector A** - Pos. 8 (SS#8)
- **Connector A** - Pos. 9 (SS#9)
- **Connector A** - Pos. 10 (SS#10)
- **Connector A** - Pos. 11 (SS#11)
- **Connector A** - Pos. 12 (SS#12)
- **Connector A** - Pos. 13 (SS#13)
- **Connector A** - Pos. 14 (SS#14)
- **Connector A** - Pos. 15 (SS#15)
- **Connector A** - Pos. 16 (SS#16)
- **Connector A** - Pos. 17 (SS#17)
- **Connector A** - Pos. 18 (SS#18)

### Example Diagrams

- **Example Diagram 1**: Diagram showing the integration of a WeCan® Control Point Module into a PCCS9NP System.
- **Example Diagram 2**: Diagram showing the connections between the modules and their functions.

### Notes

- See PCCS9NP manual for detailed information on wiring and connections.

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