DAK-2ULTMVP

Drive-Thru Alert Kit

The DAK-2ULTMVP drive-thru alert kit provides audio and visual indication to team members who need to know when a customer's vehicle has pulled into the drive-thru lane. This system can be used in a wide variety of drive-thru applications, including fast food restaurants, banking, and car wash.

DAK-2ULTMVP Drive-Thru Alert Kit, includes:

- Two EMX ULT-MVP Vehicle Detectors with LD-11 Connectors
- Two EMX PR-46-100 Induction Loops
- One SLM500B LED Beacon and Sounder with SLMBW-012-024GY Wall Mount Bracket
- One 120VAC to 24 VDC Power Supply
- NEMA 1 Junction Box (wall mounting hardware not provided)

Wiring

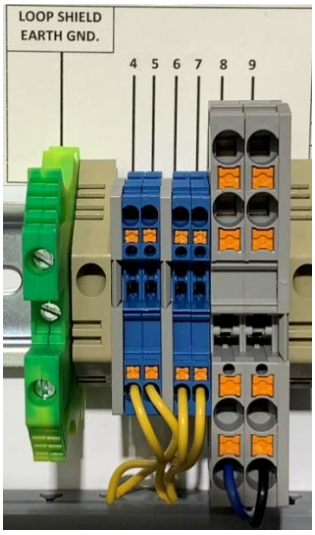
Refer to the images to the right for identifying each terminal.

Wiring Connections	
Terminal Number	**Terminal Function**
1	Neutral Line In (120VAC)
2**	Hot Line In** (120VAC)
3	Earth GND
4	ULT-MVP #1 Loop
5	ULT-MVP #1 Loop
6	ULT-MVP #2 Loop
7	ULT-MVP #2 Loop
8*	Beacon Output +24V*
9*	Beacon Output GND*

*The +24V is only present while one of the vehicle detectors is currently detecting a vehicle

**Terminal 2 doubles as a fuse holder and as a disconnect lever for the power source. If this fuse is blown, replace with a 5x20mm fuse with an amperage rating of at least 1.5A.

Left-Side Terminal Blocks
Accepts 12-26 AWG Wire

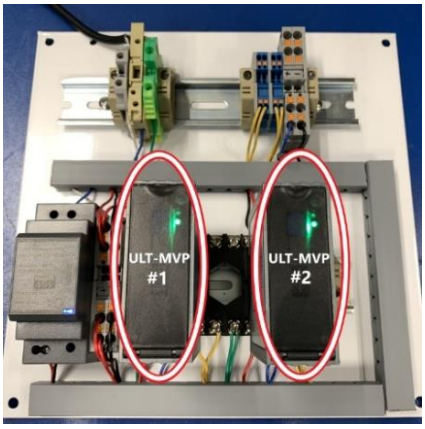


Right-Side Terminal Blocks
Accepts 14-24 AWG Wire

QuickStart Guide

1. Determine where your junction box will be located within the building and plan how the external wiring will be routed into the box. Manual knockouts will need to be made in the box to make connections to the external components. The entire panel can be removed from the housing to eliminate the chance of unintended damage while making knockouts and to make mounting to the wall easier. After all needed knockouts are made, insert both ULT-MVPs into their sockets (shown in photo to right). The connectors are keyed and will only insert in one direction. Either ULT-MVP can go into either of the sockets.

   Required External Wiring:
   - 2 Loop Cables (Supplied)
   - 1 3-wire AC Power Input Cable (120VAC, Not Supplied)
   - 1 2-wire Beacon Output Cable (Not Supplied)



Both ULT-MVPs Circled

2. Install the two provided EMX PR-46-100 loops at the desired locations of vehicle detection. See the PR-46-100 manual for assistance in loop installation. Confirm the lead-in cable of the loops (100ft) is long enough to make it back to the junction box. Splices to the cable can be done but this may affect loop reliability.

   Wire the loop intended for ULT-MVP #1 into terminals 4 and 5. Wire the loop intended for ULT-MVP #2 into terminals 6 and 7. There is no polarity on these terminals. Refer to the images and chart on page 1 for wiring.

   TIP: If loop reliability or crosstalk become an issue, it is recommended that the shield wires from both loops are connected to the "Loop Shield Earth GND." Terminal.

3. Determine where the beacon will be located within the building and plan how the cabling (not supplied) will be routed back to the junction box. The cable will need at least two conductors. Remove one of the pre-stamped knockouts from the back of the SLMBW bracket and use this opening to feed your cabling out of the bracket.

   On the beacon, screw one conductor into the terminal labeled C (+24V) and the other conductor into the terminal labeled 3 (GND). In the junction box, wire the conductor connected to 'C' into terminal 8, then wire the conductor connected to '3' into terminal 9.

   The beacon will need to have it settings changed so the correct chime will play. On the Beacon, set the DIP switch labeled SW1 to "11011" (1 = ON, 0 = OFF). Set the DIP switch labeled SW2 to "00111". Now adjust the potentiometer labeled R32 fully counterclockwise to reduce the volume to minimum.

   TIP: Terminals 8 and 9 provide additional connection points so that two separate beacons can be attached if it is required for the building.

4. Determine location of suitable 120 VAC power source and route power cable into the box. Wire the hot line-in to terminal 2. Wire the neutral line-in to terminal 1. Wire earth ground to terminal 3. Refer to the images and chart on page 1 for wiring.

   Once this wiring is complete and power is applied, the green LEDs on the ULT-MVPs should illuminate.

5. The setup should now be functional if all previous wiring was done correctly. Move a vehicle over one of the loops and confirm all connected beacons make an audio and visual indication. The beacon light should continue blinking while the car is placed over the loop. When the car pulls away, the beacon should deactivate until another vehicle approaches a loop. Make sure to test both loops in the system. If the loops/detectors do not work as expected, refer the ULT-MVPs operating instructions for troubleshooting.