



MicroTube ExtremeRange Installation Guide

Strobe Connector

The 3 pinned wires attach directly to the strobe emitter after the connectors are configured to you strobe assembly. Extension cables are available. Extension cables must be at least #16AWG with 600 volt rated insulation.

Wiring Harness – Individual Wire Identification

- BLACK** Battery or Power Supply Negative
Supplies power to the Micro Tube. DO NOT USE wire that is rated less than #16 AWG.
- RED** Battery or Power Supply Positive (10.0 to 15.0 VDC)
Supplies power to the Micro Tube. DO NOT USE wire that is rated less than #16 AWG.
- YELLOW** Diagnostic Lamp or Illuminated Switch Lamp Negative
Connects to any 12 VDC, illuminated panel switch lamp (Use the lamp ground lug), or any 12 VDC separate panel lamp. Used for diagnostic purposes. Can be connected to multiple lamps, (see wiring diagram). The other lamp lead(s) connect to +12 VDC (10.0 to 15.0 VDC). DO NOT USE wire that is rated less than #18 AWG.
- BLUE** Positive Disable Input
When +12 VDC is applied to this lead, the strobe is disabled. Normally connected to a transmission or brake switch. This wire carries very low current, and can therefore be rated as low as #20 AWG.
- VIOLET** Negative Disable Input
When the battery or power supply negative is applied to this lead, the strobe is disabled. Normally connected to a transmission or brake switch. This wire carries very low current, and can therefore be rated as low as #20 AWG.
- GREEN** "Run" Mode
When +12 VDC is applied to this lead, the strobe output will be enabled. This wire carries very low current, and can therefore be rated as low as #20 AWG.

Minimum Installation Requirements

Connect the BLACK and RED wires per the wiring diagram. Connect the GREEN wire to the switch, to enable the strobe. The other switch terminal attaches to +12 VDC. NOTE: If the switch is rated for at least 10 amps AND the wires used for hook-up are at least #16 AWG, the GREEN wire may be directly connected to the RED wire and run to the switch as a single wire.

Complete Installation Requirements

Connect the MicroTube per the wiring diagram. The following notes should clarify wiring options:

- 1) In the place of two separate switches, a single SPDT toggle or rocker switch with a Center-Off Position, may be used.
- 2) The YELLOW Diagnostic Lamp wire can be used in many different ways: a separate panel mounted lamp; illuminated toggle or rocker switch lamps, etc. NOTE: When using an illuminated switch lamp, the other lamp connection is made within the switch to +12 VDC.

Recommended Strobe Emitters

Most users of traffic signal preemption products want the greatest operating range possible. The MicroTube, when used with a PAR46, PAR36, or lightbar mounted strobe emitter, will usually provide 2500 feet of range (or better) if the receiver, located on the traffic signal, has been properly maintained, and adjusted. The use of smaller or less efficient strobe emitters will generally reduce the operating range. Strobe emitters can be mounted in or on any light-bar, grille, bumper, chassis, dash, or deck headlamps, etc.

CAUTION: The MicroTube, provides increased power-per-flash, to the strobe emitters and can reduce the life of the strobe.

CAUTION: The MicroTube should not be used with strobe emitters rated less than 20 watts, or any miniature dash or deck strobes (particularly those enclosed with plastic housings), as this could result in a potential fire hazard.

For additional information please check our website: www.prioritygreen.com