

## Warrior MU-X9 Receiver

### Features

- ✓ Two Motion, Two Speed Control
- ✓ Two Series MLC Safety Relays
- ✓ Dedicated Horn/Light and Start Relays
- ✓ Compact Designed to IP65/IP67 Standards
- ✓ 900 MHz @ 100 mW No License Required Operation
- ✓ Designed to ICS 8 NEMA Crane Specification
- ✓ External Antenna
- ✓ Self-Contained, Factory Pre-Configured Terminal Wiring with Single Pigtail Harness



The Warrior MU-X9 is a low cost machine-mounted receiver intended for use on industrial hoists. Available in 900 MHz for maximum flexibility, the MU-X9 is self-contained and prefigured providing a no-touch solution. The pigtail harness flying leads are marked for easy identification. The MU-X9 accepts control commands from Warrior handheld transmitters\*.

The unit can be mounted using the molded enclosure mounting flange that provides the option of using the four pre-drilled 0.20" holes with bolts or screws, or by using the two 0.425" holes with the 0.225" x 1.00" shank-slides. The sturdy enclosure allows the MU to operate worry free in harsh weather conditions and factory environments.

*\*The Warrior HH2S transmitter is standard with the MU-X9 in a Warrior system. Other Warrior transmitters can be used with the MU-X9. Contact your Cervis sales representative for details.*

### Specifications

#### Power

<b>Operating Voltage</b>	110 to 230 VAC @ 50-60 Hz 7 to 32 VDC 10 to 28 VAC @ 50-60 Hz
<b>Operating Power</b>	2.4 W

#### Environment

<b>Operating Temp</b>	-13°F to 158°F (-25°C to 70°C)
<b>Storage Temp</b>	-40°F to 185°F (-40°C to 85°C)
<b>Humidity</b>	0 – 95% non-condensing

#### Enclosure

<b>Dimensions</b>	4.500" x 2.437" x 5.750" (114.3mm x 61.89mm x 146.05mm)
<b>Durability</b>	NEMA 4, 4X, 6, 6P IP65/IP67
<b>Mounting</b>	Four enclosure flange screw holes; two enclosure flange hole-slide slots

#### Indicator (LED)

<b>White</b>	Used during Association
--------------	-------------------------

#### Radio

<b>Frequency (MHz)</b>	906-924
<b>Power</b>	100 mW
<b>License</b>	License Free
<b>Antenna</b>	External (RP – TNC)

#### Stop Circuit

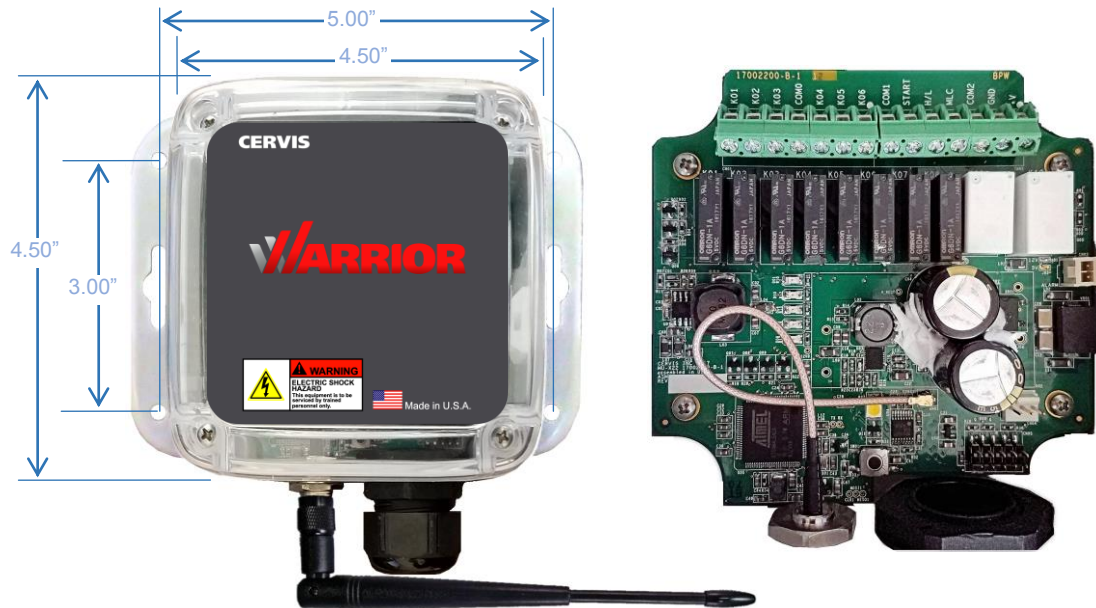
<b>Two (Series)</b>	Type Form A
<b>Contact Rating</b>	8 A Max. @ 250 VAC

#### Control Relays

<b>Six (6) Function</b>	Type Form A
<b>Four (4) System</b>	Type Form A
<b>Contact Rating</b>	5 A Max. @ 250 VAC



## MU-X9 Receiver

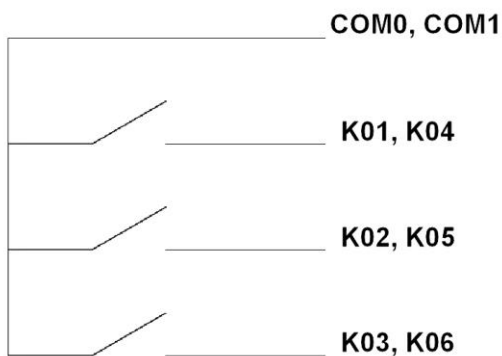


### 10-System Relays Schematic Diagram

The ten system relays are divided into two groups of three — K1 through K3 and K4 through K6, and a group of four relays — K7 through K10.

- Groups 1 and 2 perform related motion functions
- Group 3 contains the MLC Stop Circuit.

#### Group 1 and Group 2



#### Group 3

