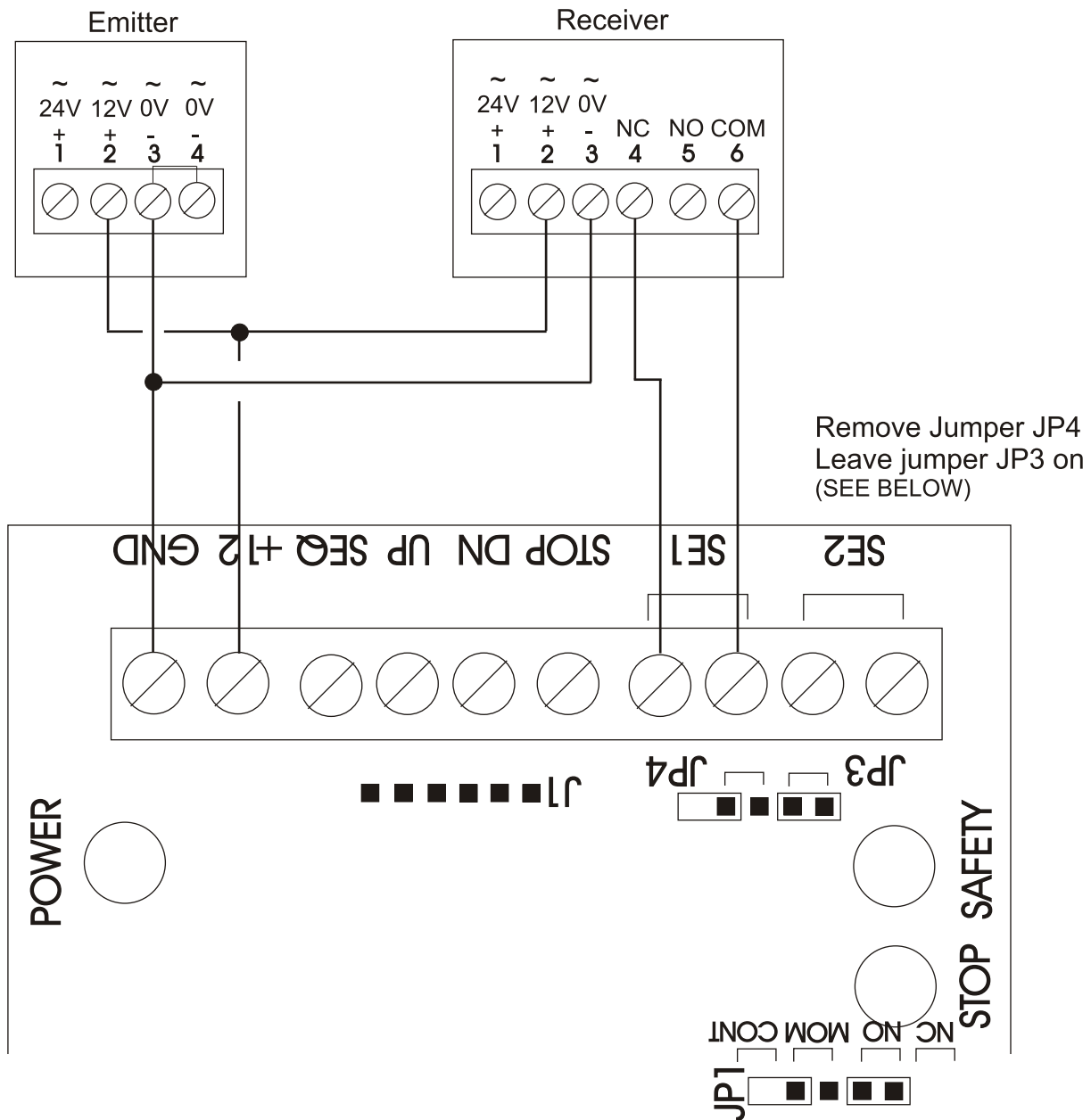


APPENDIX 2

CDR 863 Infrared Eye Beam



ASSEMBLY

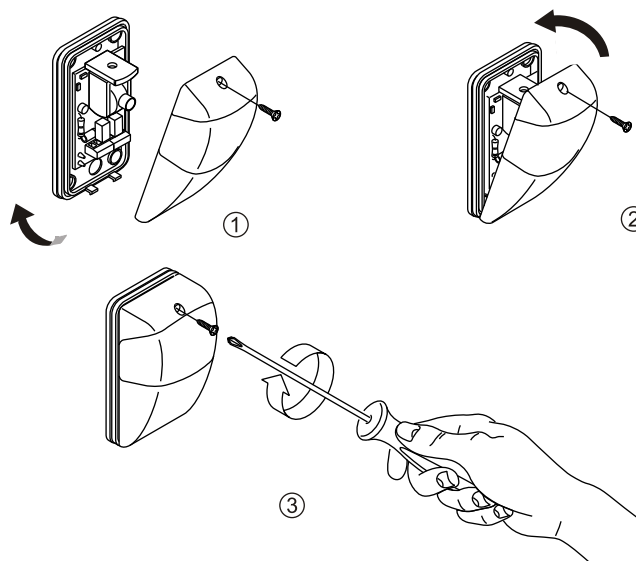
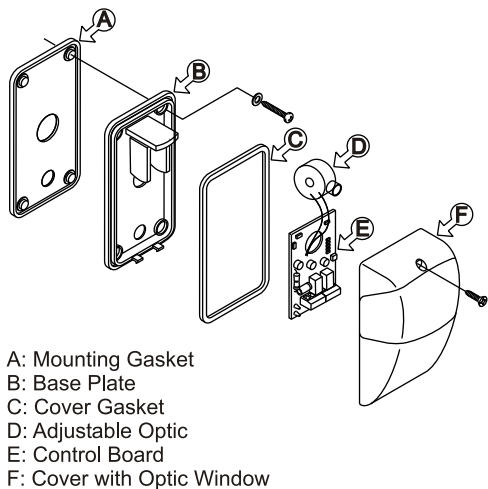


Fig. 1

DIMENSIONS

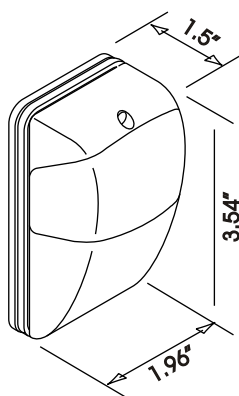


Fig. 2

CONNECTIONS

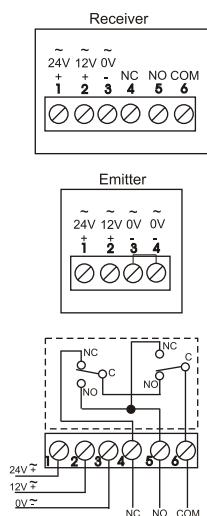


Fig. 3

TEST POINT

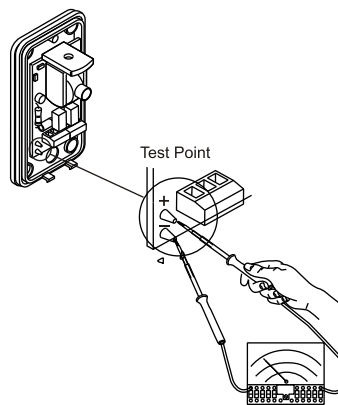


Fig. 4

ALIGNMENT

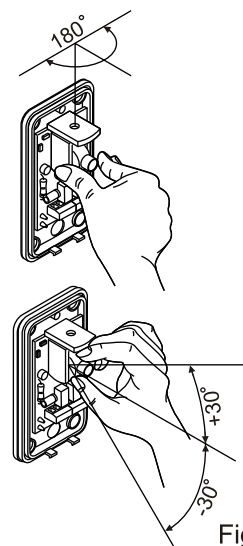


Fig. 5

Description

The CDR863 is an outdoor/indoor photoelectric beam and can be used with the SMC to control a tubular motor covering passage way up to 30' outdoors and 45' indoors.

Mounting (Fig. 1)

- 1) Using the template on the lid of the box, mark the position of the transmitter and receiver and install gasket (A) and the mounting plate (B) in the desired locations using the four #6 flat head wood screws. When mounting to other than wood surfaces use the appropriate anchors.
- 2) Run the wires through the hole in the gasket and mounting plate and into the unit.

Wiring and Calibration

WARNING: DO NOT APPLY POWER UNTIL ALL CONNECTIONS HAVE BEEN MADE!

- 1) Connect wires as shown on page one of this addendum.
- 2) Power the units. The red LED on the transmitter will light. The red LED on the receiver will light only if the optic eyes are not aligned
- 3) Align the eyes using a DC voltage meter on the test point (Fig. 4). The meter should read 0.9V or higher when aligned.
- 4) Seal the wire holes using the supplied rubber plugs. Install the cover and secure with supplied screws (Fig. 1 a,b,c)
- 5) Test the function. Note: If the eye causes the door to lower instead of raise, reverse the red and black motor leads.

Technical Specifications

Optical

Range: (outdoors)	up to 30 ft.
(indoors)	up to 45 ft.
Transmitter beam width:	6 degrees (typical)
Receiver field of view:	6 degrees (typical)
Adjustment Vertical:	+/- 30 degrees
Horizontal:	180 degrees

Electrical

Voltage:	12 or 24 VAC/VDC ± 10%
Current consumption @ 12V:	23mA (rest) 65mA (active)
Current consumption @ 24V:	29mA (rest) 68mA (active)
Relay:	Form C (Com, NO, NC) Relay drop out with loss of power Contacts rated 60VA @ 24VDC/VAC Max 30VDC/VDC

Infrared source:	Double Gallium Arsenide LEDs
Transmitter frequency:	4.7 kHz
IR wavelength:	950 nm

Environmental

Operating temperature:	14 to 131 degrees F (-10 to +55 degrees C)
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