

# MACHINE-GUARD System

## MGA-LR Series LED Remote Displays



The Banner MGA-LR Series LED Remote Displays are for use with Banner BEAM-ARRAY™ MACHINE-GUARD and PERIMETER-GUARD systems. **Model MGA-LRKS-1** provides the same three operating status indicators as are found on the control box front panel, plus a keyed reset switch. **Model MGA-LR-1** has the three operating status indicators but no keyed reset switch. The indicators and key switch of the remote displays operate identically to their counterparts mounted on the control box cover (see Section 2 of either System's Instruction Manual). Operating status indications are sent to both sets of LEDs, and (when the MGA-LRKS-1 is used) either key switch can be used to reset the system.



The 25-foot long attached PVC-covered shielded cable from the remote display connects to the wiring barrier at the upper left corner of the relay board inside the system control box, as shown below. The plastic strain relief and lock nut are supplied. It is the user's responsibility to maintain NEMA 12 sealing at the cable entry into the control box. MGA-LR Series LED Remote Displays are constructed of heavy 6063-T6 aluminum with a black anodized finish, and are rated NEMA 12 (IEC IP64). LED Remote Displays will mount to a flat surface using their supplied bracket. Alternatively, they may be attached to a tube or pipe of 2 to 2-1/4" diameter, or to a Banner Stand Pole (MGA-S Series), using accessory u-bolt/mounting bracket combination model MGA-SPB-1 (order separately).

### Please note:

Model MGA-LRKS-1 (which has remote keyed reset capability) must be mounted at a location that provides an unobstructed view of the *defined area*. Keys to the remote reset switch must be kept by a *designated person*, and the reset switch may be operated only by a *designated person*. A *designated person* is defined as follows:

**Designated person:** a person or persons identified and designated in writing, by the employer, as being appropriately trained and qualified to perform a specified MACHINE-GUARD or PERIMETER-GUARD checkout procedure. Refer to Section 6 of the MACHINE-GUARD or PERIMETER-GUARD Instruction Manual for further information.

### Hookup Drawing, MGA-LR-1 and MGA-LRKS-1 LED Remote Displays

Disconnect all power to the MACHINE-GUARD OR PERIMETER-GUARD System and the guarded machinery before installing the LED Remote Display! See WARNING below.

#### WIRING NOTES:

1. The "drain wire" is the uninsulated stranded wire which runs between the braided shield and the foil shield.
2. The foil shield should be removed at the point where the wires exit the cable.
3. The braided shield may be either removed or twisted together with the drain wire for connection to the grounding stud on the inside wall of the control box.



### WARNING

Electrical shock hazard exists when the System has power applied to it and the control box door is open.

Use extreme caution to avoid electrical shock during installation or servicing or when the control box door is open.

Always disconnect all power from the System and the guarded machine before making any wire connections or before replacing any component.

