



# Allen Bradley 60-2728-1

Reflector Type Photo Eye

Formerly model 42 GRU-9001

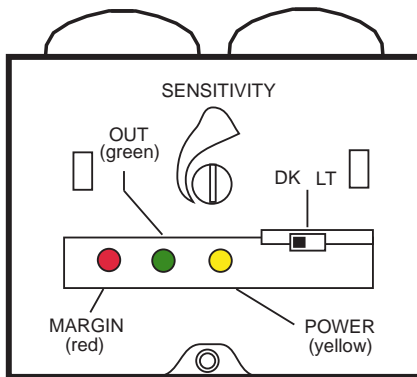
(10 - 55 VDC & 20 - 40 VAC)

UL 325 Compliant

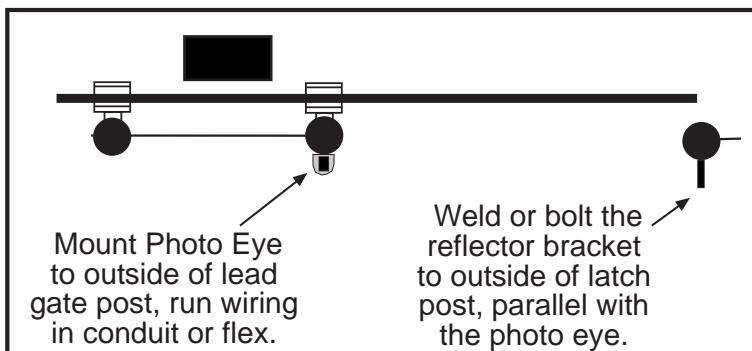
## Installation Instructions

- Set Dark Switch to Dark ON.
- Set Sensitivity near Max.
- Wire per chart below.
- Yellow LED indicates that the unit is receiving power.
- Loosely Mount Photo Eye.
- Solidly Mount Reflector, level or square with and aimed at the Photo Eye's Lens.
- Adjust Photo Eye until Red LED is steady. Then tip Up & Down and Side to Side, until Red LED goes out. This will determine the four outer most limits of aim. Go to center in both directions (Horizontal & Vertical Center.) Hold in this spot & tighten. Tap on the Photo Eye mount to test stability and accuracy.

Front of Unit



**\*See light status instructions on next page.\***



## WIRING

Use 4 Conductor Wire color

Brown	+ Power	Red
White	N.C.	Do Not Use
Orange	COM	Green
Black	N.O.	White
Blue	- Power	Black

Unit has a 6' Cable

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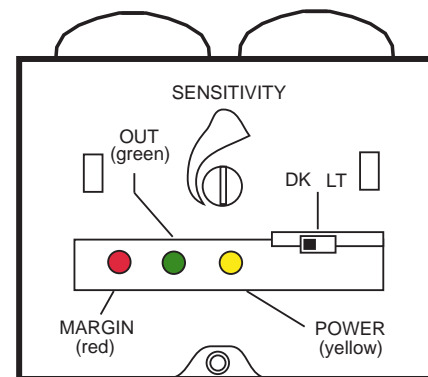
### Troubleshooting

Typical scenario, gate won't close.

- Clean dust, dirt, etc. from the photo eye lenses and the white reflector. It's best to use Rain X. This may be the only problem. If the gate still won't close, continue.
- Loosen the screw holding down the plexiglass cover on top, rear of the photo eye.
- Photo Eye should be in DARK MODE. If not, verify that it is installed per instructions.
- Yellow LED will be on if unit is receiving power.
- Green LED will be on if unit is obstructed, not properly aimed, reflector is damaged or dirty.
- Red LED will be on if unit is properly aimed and not obstructed.
- Red LED will be flashing if there is a dead short or if the unit is receiving too much power.
- To re-aim the Photo Eye, loosen the large black plastic Photo Eye nut at the bottom of the bracket. See aiming the instructions in the Installation Instructions box on Page 1.



Front of Unit



### LIGHT STATUS

In Dark On Mode



Normal  
Yellow & Red LED.

If unit is in Light Mode, all 3 LED's ON indicates Normal status.  
If Yellow only is on, it indicates an obstruction or out of aim scenario. Relay outputs will be backwards (normally open will read normally closed & NC will read NO).

- Yellow = Power On
- Green = Relay Energized
- RED = Aim OK
- (flashing) Short Circuit or Overload

### Sensing

Yellow & Green LED. There is an obstruction, unit needs cleaned or re-aimed, the reflector is missing, damaged or needs cleaned.

