

EG360

Retro-Reflective Photo-Eye - Monitored or Non-Monitored



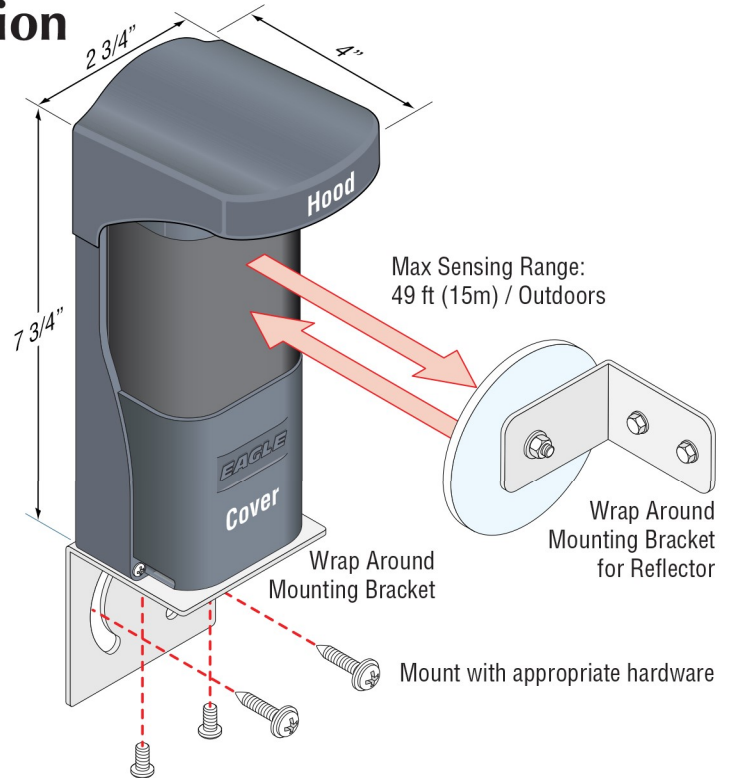
The EG360 Retro-Reflective Photo-Eye is designed to provide ONLY vehicular entrapment protection for gates, barriers and overhead doors. It is NOT to be used for personnel protection. It uses an Infrared beam that is returned from a reflector mounted on the opposite side of the opening that detects vehicles in the beams path.

The EG360 Retro-Reflective Photo-Eye is intended for use with operators designed to accept a "Heartbeat" form of monitoring but can be used with an operator's simple relay contact activation for monitoring to comply with the UL 325 standard. It can also be used as a normally open non-monitored detection device for vehicular protection.



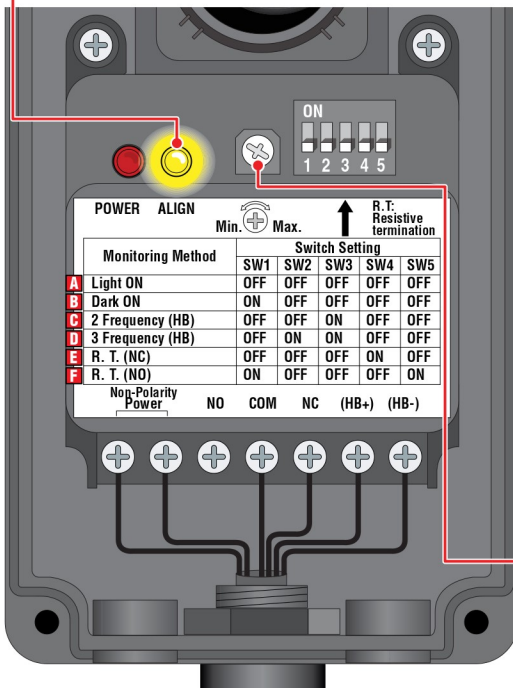
Disassembly

Installation

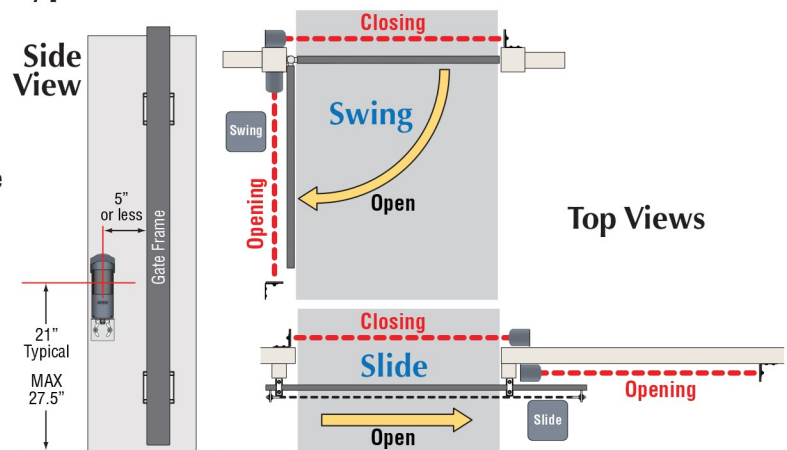


Beam Adjustment

Beam is aligned with reflector when yellow ALIGN LED turns ON.



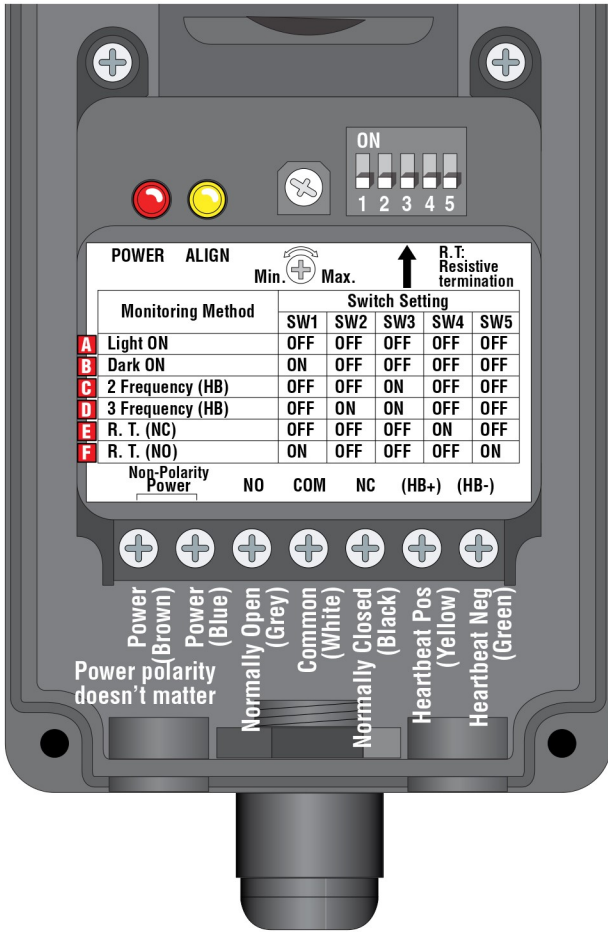
Typical Vehicular Gate Locations



See reverse side for wiring and DIP-switch settings.

Sensing Range Adjustment

Turning Clockwise: Range becomes longer.
Turning Counter-Clockwise: Range becomes shorter.



Power Input:
AC (60Hz) / DC
12 ~ 30V
Current:
120mA
Operating Temperature:
-4°F ~ 131°F (-20°C ~ 55°C)

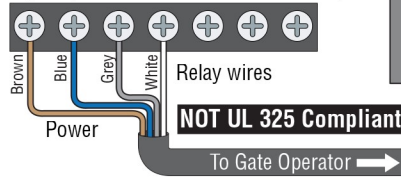
DIP-Switches:
1: OFF-Light ON (N.C.) ON-Dark ON (N.O.)
2: 4 Wire Pulsed, HB+ HB- connected OFF-2 Frequency ON-3 Frequency
3: OFF-No Heartbeat ON-Heartbeat
4: OFF-No resistive termination (N.C.) ON-10K Resistive termination (N.C.)
5: OFF-No resistive termination (N.O.) ON-10K Resistive termination (N.O.)

B or F Simple Relay Contact NON-MONITORED

Connect relay to NORMALLY OPEN (NO) and COM.

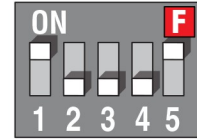
Monitoring Method	Switch Setting				
	SW1	SW2	SW3	SW4	SW5
Light ON	OFF	OFF	OFF	OFF	OFF
Dark ON	ON	OFF	OFF	OFF	OFF
2 Frequency (HB)	OFF	OFF	ON	OFF	OFF
3 Frequency (HB)	OFF	ON	ON	OFF	OFF
R. T. (NC)	OFF	OFF	OFF	ON	OFF
R. T. (NO)	ON	OFF	OFF	OFF	ON

Non-Polarity Power NO COM NC (HB+) (HB-)



Dark ON (NO)

OR



Resistive Terminal (NO) (10K)

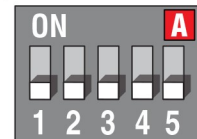
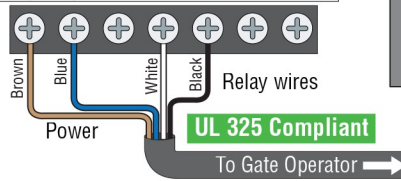
Simple relay contact activation indicates beam obstruction.

A or E Simple Relay Contact MONITORED

Connect relay to NORMALLY CLOSED (NC) and COM.

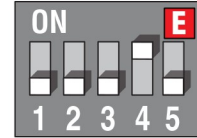
Monitoring Method	Switch Setting				
	SW1	SW2	SW3	SW4	SW5
Light ON	OFF	OFF	OFF	OFF	OFF
Dark ON	ON	OFF	OFF	OFF	OFF
2 Frequency (HB)	OFF	OFF	ON	OFF	OFF
3 Frequency (HB)	OFF	ON	ON	OFF	OFF
R. T. (NC)	OFF	OFF	OFF	ON	OFF
R. T. (NO)	ON	OFF	OFF	OFF	ON

Non-Polarity Power NO COM NC (HB+) (HB-)



Light ON (NC)

OR



Resistive Terminal (NC) (10K)

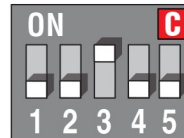
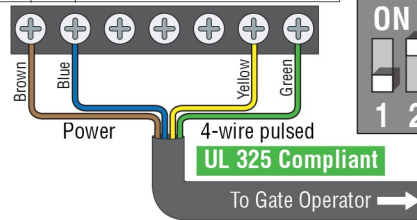
Simple relay contact activation indicates beam obstruction.

C or D Heartbeat Connection MONITORED

Connect to Heartbeat Pos (HB+) and Heartbeat Neg (HB-).

Monitoring Method	Switch Setting				
	SW1	SW2	SW3	SW4	SW5
Light ON	OFF	OFF	OFF	OFF	OFF
Dark ON	ON	OFF	OFF	OFF	OFF
2 Frequency (HB)	OFF	OFF	ON	OFF	OFF
3 Frequency (HB)	OFF	ON	ON	OFF	OFF
R. T. (NC)	OFF	OFF	OFF	ON	OFF
R. T. (NO)	ON	OFF	OFF	OFF	ON

Non-Polarity Power NO COM NC (HB+) (HB-)

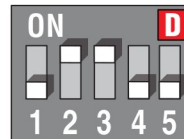


2 Frequency (HB)

Frequencies:

- 300 Hz when aligned and no beam obstruction.
- 0 Hz when beam is obstructed.

OR

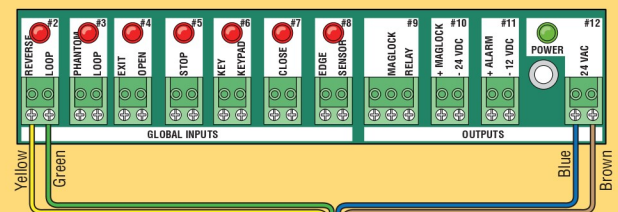


3 Frequency (HB)

Frequencies:

- 300 Hz when monitoring, aligned and no beam obstruction.
- 2 Hz when beam is obstructed.
- 0 Hz when photo-eye fault occurs.

EAGLE Diamond Board Connection



Wire and set Photo Eye to **C** ← To EAGLE Photo Eye