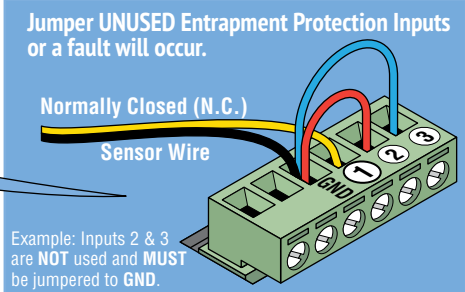
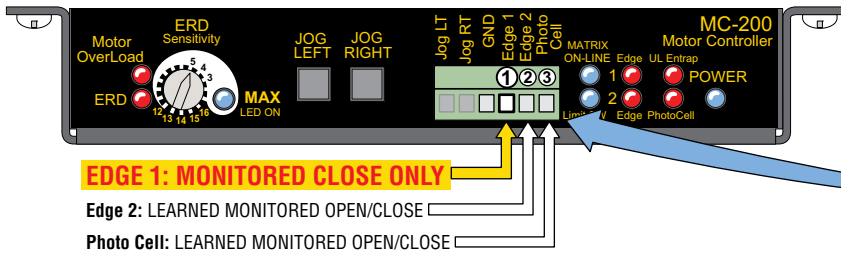
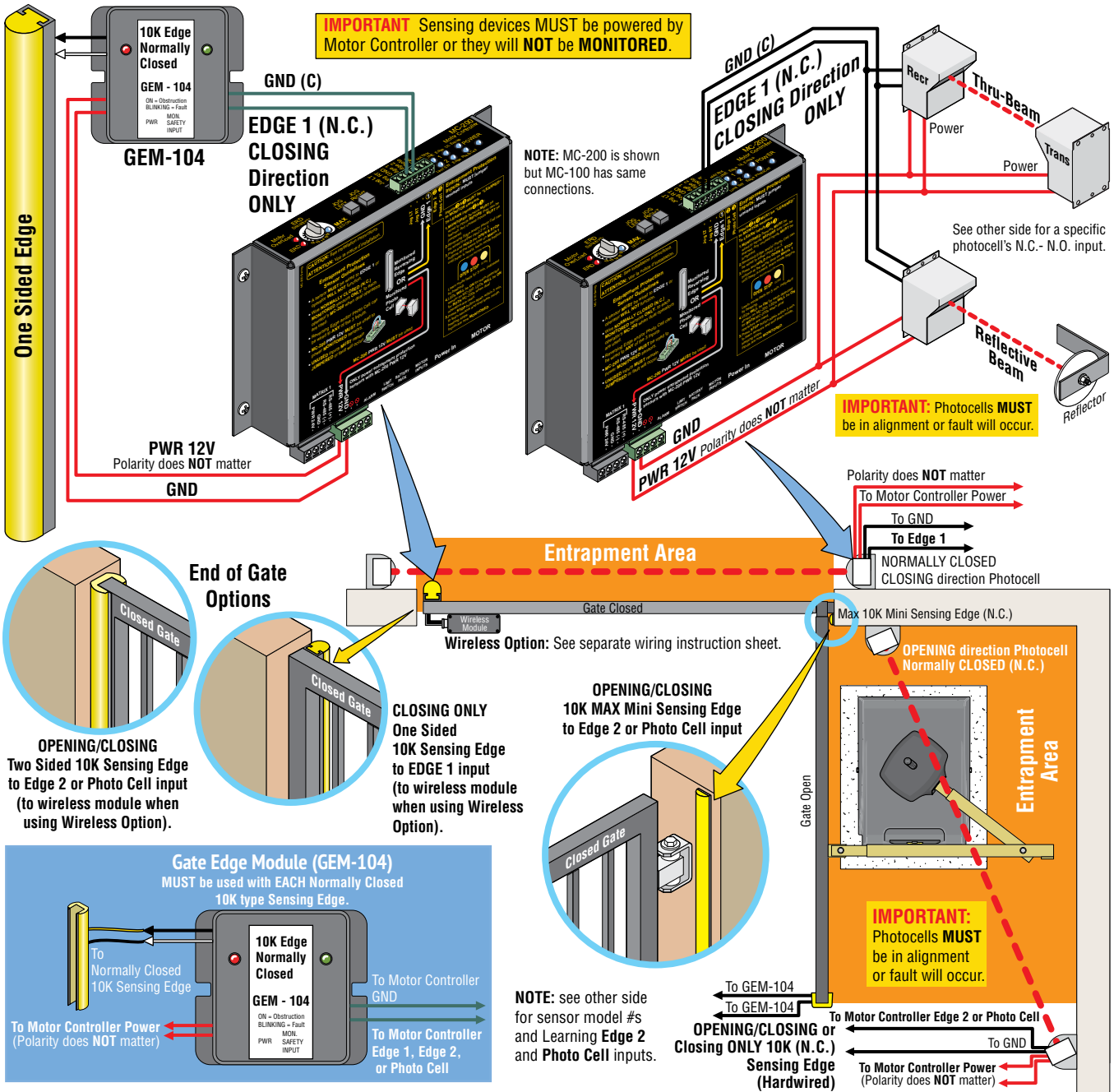


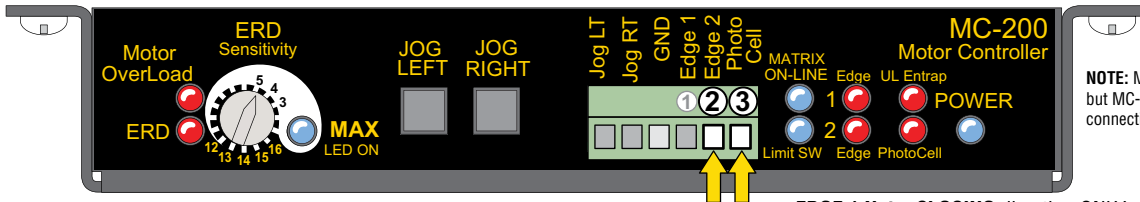
SWINGER Entrapment Protection Wiring



Typical Wiring For: a 10K Normally Closed (N.C.) Sensing EdgeAND/OR..... a Normally Closed (N.C.) Photo Cell



SWINGER Entrapment Protection “Learning”



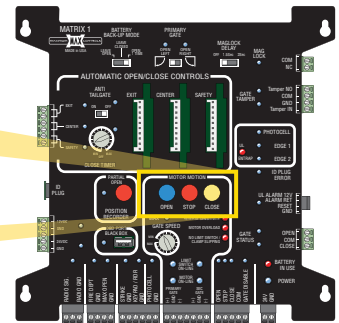
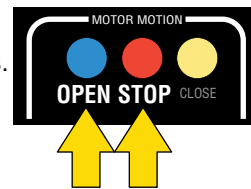
NOTE: MC-200 is shown but MC-100 has same connections.

EDGE 1 Note: CLOSING direction ONLY.

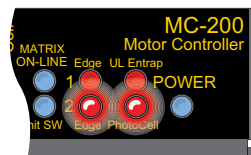
Inputs ② & ③ MUST be “LEARNED” to MONITOR OPENING/CLOSING direction sensors.

To LEARN inputs ② & ③:

1. **MONITORED** Sensors **MUST** be wired **BEFORE** they can be learned. Any unused inputs **MUST** be jumpered, see previous page.
2. A Sensing Edge or Photo Cell can be wired to either input 2 or 3.
3. Press and **HOLD** the **STOP** button & then the **OPEN** button together on Matrix 1 until beep is heard, learn mode begins. **NOTE: DO NOT** press the **OPEN** button before the **STOP** button or learn mode will **NOT** function.

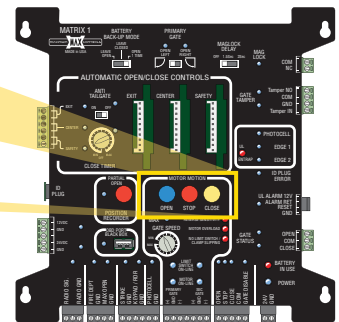
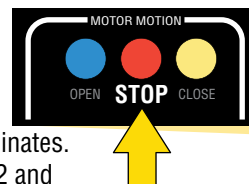


4. LEDs **WILL** be **ON** for each detected sensor on Motor Controller. LEDs **WILL** be **ON** for **BOTH** Motor Controllers when dual operators are used. If an LED is not on and it should be, wiring to sensor is bad, photocells are out of alignment, photocells are wired wrong - N.C. or N.O. depending on which photocells are used (see below) or sensor is bad etc. and must be corrected. When all LEDs are **ON** that should be **ON**, proceed to next step.



Example shows that sensors are **DETECTED** on inputs **Edge 2** and **Photo Cell**.

5. Press **STOP** button again within 5 min. to learn sensors and end learn mode, beeping stops.
Wired Inputs are now **MONITORED**.



If **STOP** button is not pressed within 5 min. learn mode terminates.
If no sensors are detected then factory default setting (Edge 2 and Photo Cell are **NOT** Monitored) is restored.

UL 325 2016 Compliant **MONITORED** Normally Closed Entrapment Protection Devices:

Normally Closed Definition: When Power is off, relay contacts are OPEN. When Power is on, relay contacts are CLOSED.

Photo Cells:

Model RG Miller Edge Reflecti-GUARD Reflective-Beam Type (Normally Closed)

Model PG Miller Edge Prime-GUARD Thru-Beam Type with battery operated transmitter (Normally Closed)

Model EMX-IRB-MON EMX Thru-Beam Type (Normally Closed)

Model EMX-IRB-RET EMX Reflective-Beam Type (**MUST** be wired to **Normally Open**)

Model E3K-R10K4-NR OMRON Photo Electric Sensor Reflective-Beam Type (**MUST** be wired to **Normally Open**) will work with 12V

Model 60-2728-1 Allen Bradley Reflective-Beam Type (**MUST** be wired to **Normally Open**)

Direct-wired 10K Sensing Edge:

Model 10K Sensing Edge with GEM-104 Module Miller Edge (Normally Closed)

MAX 10K Mini Edge Maximum Controls (Normally Closed) Requires a Miller Edge GEM-104 module

MAX 10K Edge 1 Maximum Controls (Normally Closed) Requires a Miller Edge GEM-104 module

Sensing Edge Wireless Transmitter/Receiver:

Model MGL-K20 Miller Edge Monitored Gate Link Transmitter and Receiver