



How to adjust container gone sonic sensor on electric cart dumper



Presenter: Stephen May

Date: 12/06/2020 – Updated 7/7/2025

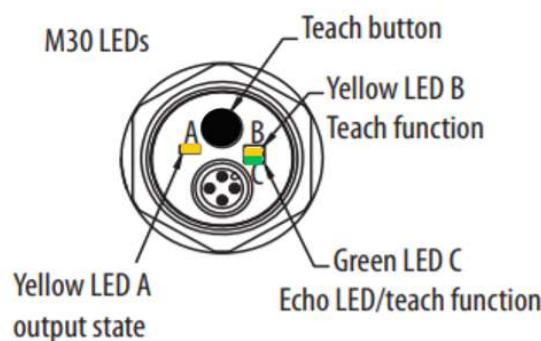
© 2024 Marathon Equipment Company | Proprietary and Confidential



Cable

Ultrasonic Sensor – Hardware (SINGLE DISCRETE OUTPUT)

873P-D30P1-3500-D4



Single PNP Indicator LED Functions

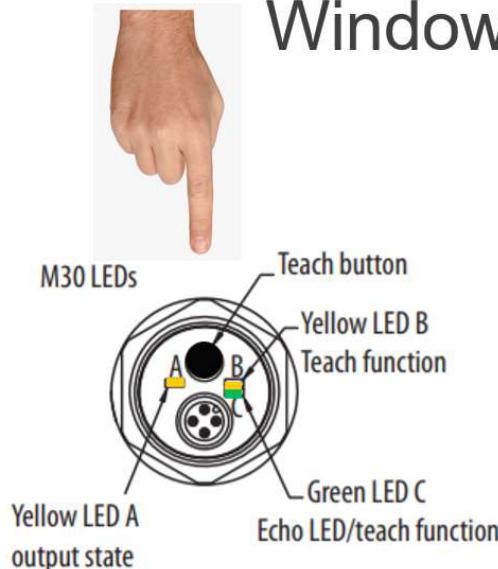
LED	Color	Function
A	Yellow	Output state
B	Yellow	Teach function
C	Green	ECHO LED/ Teach function



Teaching the Limits of the sensor.

— Ultrasonic Sensor – Programming (SINGLE DISCRETE OUTPUT)

Window Function- N.O.



Step #1 – Near Setpoint

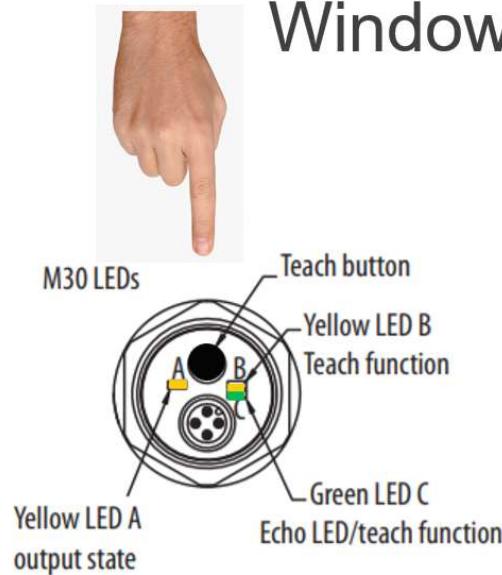
- **Place Target at Closest Distance**
- **Press and Release “Teach” Button**
- **Yellow LED “B” and Green LED “C” Flash Simultaneously**



Teaching the Limits of the sensor.

— Ultrasonic Sensor – Programming (SINGLE DISCRETE OUTPUT)

Window Function- N.O.



Step #2 – Far Setpoint

- Place Target at Farthest Distance
- Press and Release “Teach” Button
- **Sensor is Ready to Operate!**

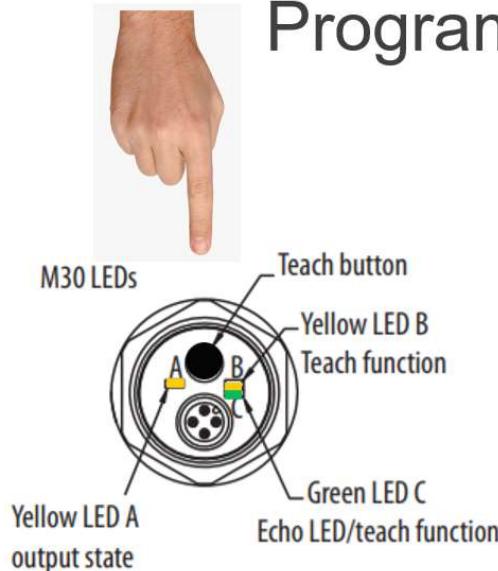
To speak with our technical support group, call: 1.877.258.1105



Locking the sensor.

— Ultrasonic Sensor – Programming (SINGLE DISCRETE OUTPUT)

Programming Lockout



Step #1 – Lock Teach Button

- **Press and Hold “Teach” Button for approximately 8 Seconds**
- **LED’s “A” and “B” Flash Alternately with the Green LED “C”**
- **Release the “Teach” Button**
- **Sensor is now LOCKED**

To speak with our technical support group, call: 1.877.258.1105

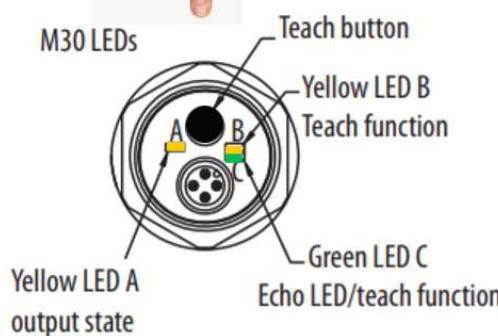


Unlocking the Sensor

— Ultrasonic Sensor – Programming (SINGLE DISCRETE OUTPUT)



Programming Lockout



Step #2 – Unlock Teach Button

- **Press and Hold “Teach” Button for approximately 8 Seconds**
- **LED’s “A” and “B” Flash Alternately with the Green LED “C”**
- **Release the “Teach” Button**
- **Sensor is now UNLOCKED**



Helpful Hints

- Ultrasonic sensors have a 10" blind zone directly in front of the device
- Minimum distance for "Near" 1st setpoint is 10" (Approximately 1 Ft.)
- Maximum distance for "Far" 2nd setpoint is 138" (Approximately 12 Ft.)
- If the target is OUTSIDE the Min/Max sensing range the "Teach" LED's will flash asynchronously for 2 seconds and then turn off. The "Teach" attempt is ignored.



Help

To speak with our
technical support group,
call: 1.877.258.1105



N Nextelligence®
Connected-Tech Training

MARATHON TRAINING



<https://www.marathonequipment.com/service-school/>

© 2024 Marathon Equipment Company | Proprietary and Confidential





**Environmental
Solutions Group®**

**A family of companies working
for a more sustainable planet.**



www.marathonequipment.com

© 2024 The Heil Co. dba Environmental Solutions Group | Proprietary and Confidential