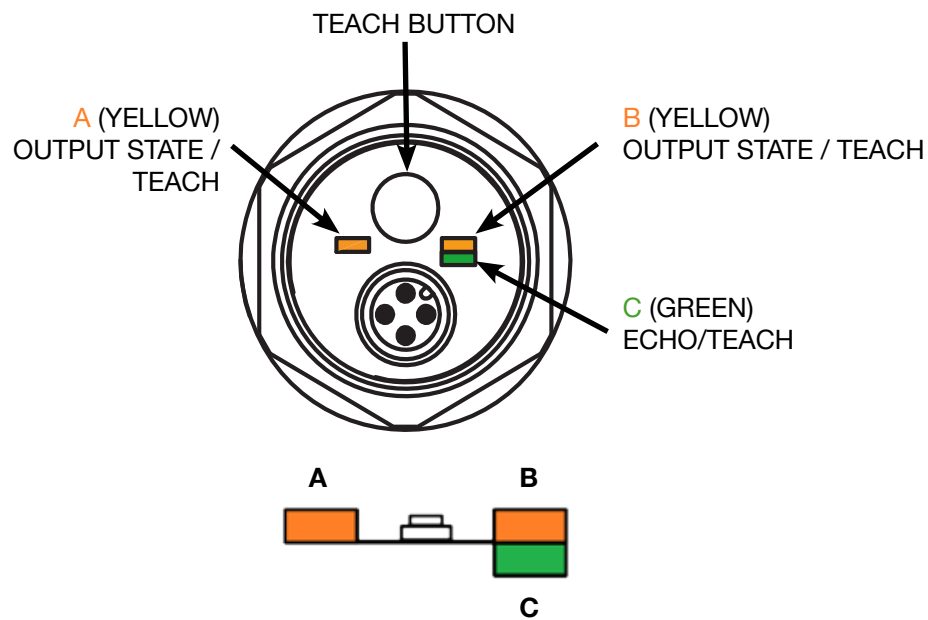


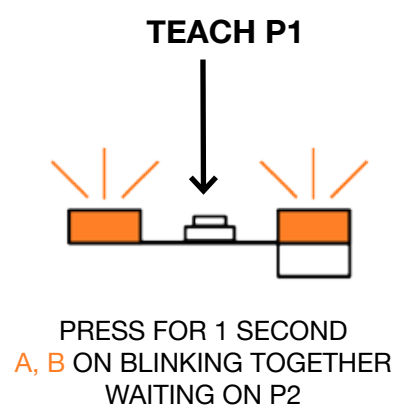
# double digital output

UST-M30P#-T#S Created: 12/07/2016

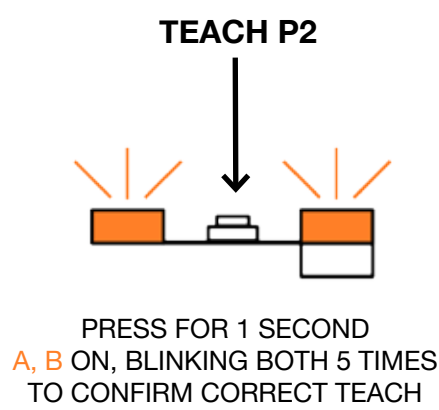
## M30 LEDs



## TEACH OPTIONS

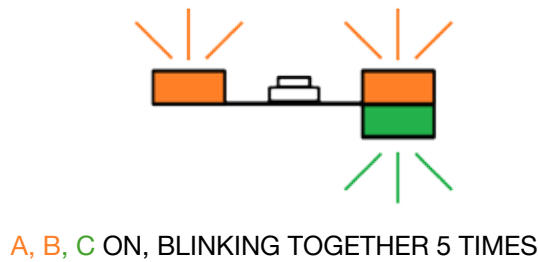


P1 = FAR POINT  
P2 = CLOSE POINT

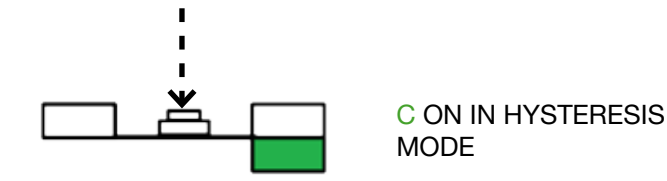
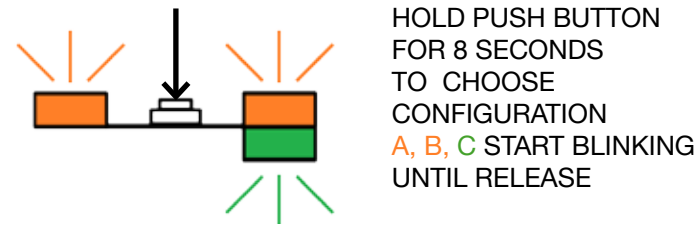


## RECALL FACTORY PARAMETERS

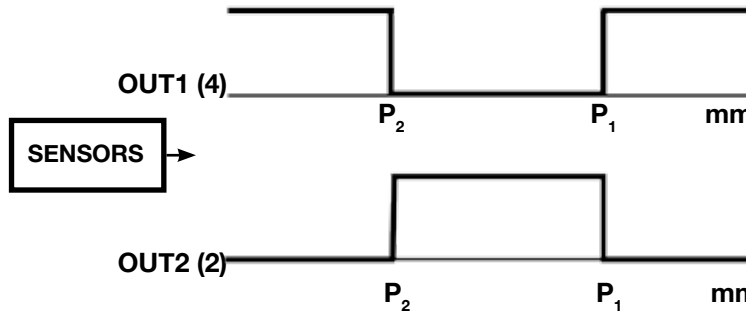
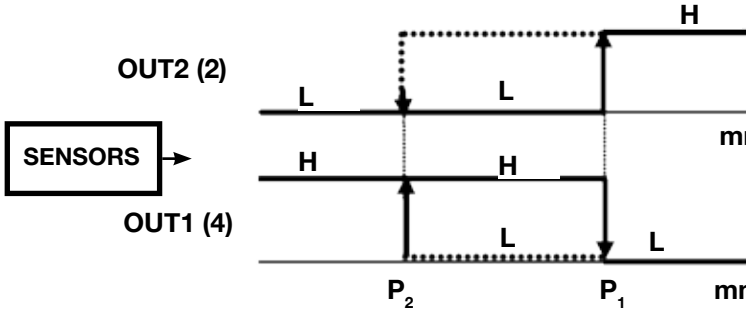
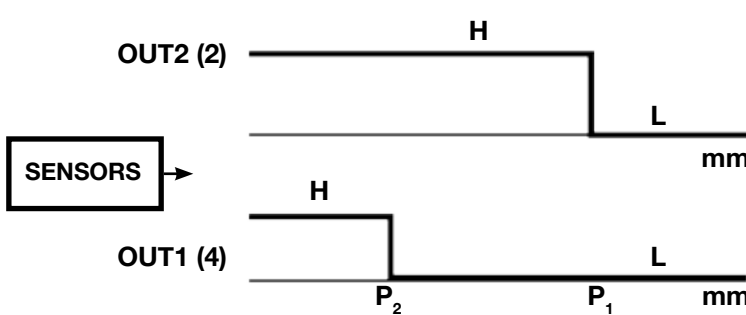
### TEACH WITHOUT TARGET



## CONFIGURATION STATE



## OUTPUT STATE



## SYNCHRONIZATION OF ULTRASONIC SENSORS

**MULTIPLEXER:** every sensors have to be connected to different outputs of the PLC and they are driven independently one from the other. It is possible to mount different sensors one close to the other (no minimum distance is required). The PLC activates one sensor per time completely avoiding the crosstalk. With the multiplexer option it is possible to have different distances between the sensors and the targets. Through the connection of the SYNC pin to the NEG, the ultrasonic wave emission is stopped and the digital outputs are frozen in the current state. If the SYNC pin is connected to the POS (or NOT connected), the sensors work normally.

**SYNCHRONIZATION:** all the sensors, connected to a unique output of the PLC, are triggered in parallel through a common synchronization pulse. A minimum distance between the sensors has to be respected. With the synchronization option, the distances between the synchronized sensors and the targets have to be the same. Connect the SYNC pin of all the sensors you want to synchronize and all sensors will be activated at the same time, avoiding any eventual crosstalk. Normal operating mode can also be activated by opening the signal connection to the synchronization (SYNC). All minimum distances depend on target distance and material (where T is the pulse period applied on the SYNC pin and W is the pulse width):

- UST-M30#S-TMS  
T≥25ms  
500µs≤W≤5ms
- UST-M30#S-TLS  
T≥35ms  
500µs≤W≤5ms
- UST-M30PO-TXS  
T≥60ms  
500µs≤W≤1ms