

Q5X BASICS

- 1. With 2000 mm models on black/dark targets and highly reflective targets, set the "SPd" to 50ms
- 2. With 5000 mm models on black/dark targets set "GAin" to "Blac" and for highly reflective targets, "ShnY"
- 3. If using a reflective target, put a 5-15° tilt on the sensor to avoid specular reflection
- 4. Always try and make sure the green "STB" light is solid on the display of the sensor
- 5. Locking and Unlocking The Sensor Press and hold the "+" button and tap the "-" button four times. This can both lock and unlock the Q5X sensor and the display with flash the condition ("Loc" or uLoc").

Q5X Factory Default Reset

- 1. Press and hold the MODE/- button for more than 2 seconds until "out" shows up on the display.
- 2. Press the MODE/- button once. The display will read "rSEt" for Reset.
- 3. Press Select/TEACH button to enter the Reset submenu.
- 4. The display should read "no". Press the "-" button once. The display will read "yes".
- 5. Press the SELECT/TEACH button to reset the sensor to factory defaults and return to Run mode.

Q5X Adjust Switch Point/ Window Size

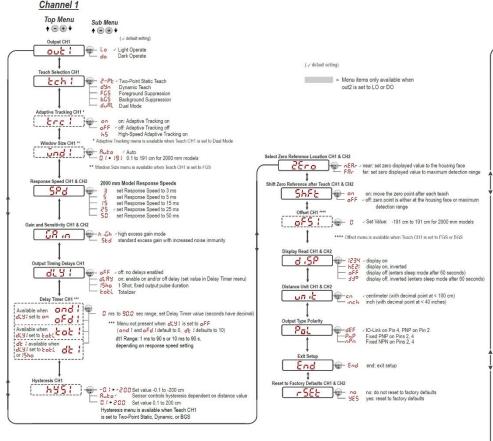
- 1. In run mode click + or button (momentary). Current switch point will display (flashing slowly)
- Use + and buttons to in adjust position.
- 3. Click SELECT/TEACH to confirm the adjusted switch point

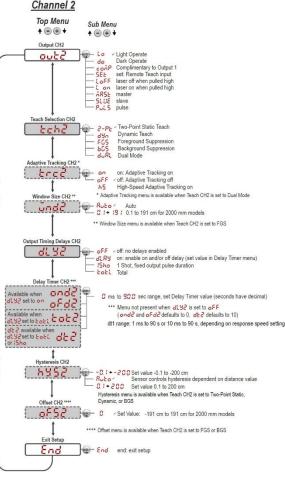
Q5X Active TEACH Indicators (DYN, FGS, and BGS)

- 1. Two-point TEACH mode selected (default) DYN, FGS, and BGS all off
- 2. Dynamic TEACH mode selected DYN on
- 3. Foreground suppression TEACH mode selected FGS on
- 4. Background suppression TEACH mode selected BGS on
- 5. Dual TEACH mode selected DYN, FGS, and BGS all on











more sensors, more solutions

Q5X - Set Teach Mode

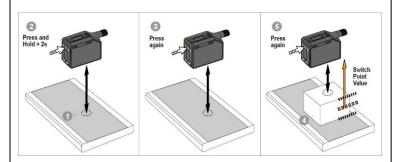
The Q5X has 5 teach modes, Two Point Teach (2-Pt), Background Suppression (BGS), Foreground Suppression (FGS), Dynamic Teach (DYn), and Dual Mode (duAL). These can be accessed with the following steps

- 1. Press MODE for 2 seconds ("out" will show in display, press + to get to "tch")
- 2. Click SELECT / TEACH
- 3. Click + / until the desired teach mode appears on the display (see above for abbreviated names)
- 4. Click SELECT/TEACH to select mode
- 5. Press and Hold SELECT/TEACH for 3 seconds to exit menu and return to run mode.

Q5X-TWO POINT TEACH ("2-pt" MODE on sensor) Sets a single switch point midway between two targets

TO PROGRAM THE SENSOR FOR THE APPLICATION

- 1. Press TEACH for longer than 2 seconds:
- 2. The display will flash between SEt and 1St.
- 3. Focus laser on target
- 4. Press SELECT / TEACH to teach first point
- 5. The display will flash between SEt and 2nd.
- 6. Place 2nd part under laser.
- 7. Press SELECT / TEACH to teach second point THE DISPLAY WILL FLASH THE SWITCH POINT THEN THE SENSOR WILL RETURN TO RUN MODE

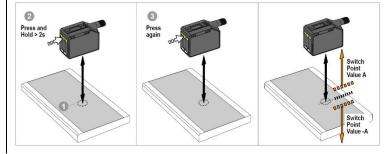


Q4X-Contrast + Distance Detection ("DuAL" MODE on sensor) Sensor will switch off at less than 75% of reference intensity and distance (Teach reference target on fixture (on / 100)

TO PROGRAM THE SENSOR FOR THE APPLICATION

- 1. Press TEACH for longer than 2 seconds (sensor will flash between SEt and on)
- 2. Focus laser on surface that is fixed where the object will pass through
- 3. Press SELECT / TEACH to teach 100% intensity, display will flash and read 100P

THE SENSOR WILL RETURN TO RUN MODE

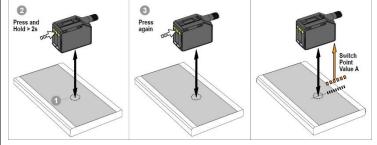


Q4X-BACKGROUND SUPPRESSION ("BGS" MODE) switch point set based on the position of the background

TO PROGRAM THE SENSOR FOR THE APPLICATION

- 1. Press TEACH for longer than 2 seconds
- 2. Focus laser on target (part)
- 3. Press SELECT / TEACH to teach the part position

THE DISPLAY WILL FLASH THE SWITCH POINT THEN THE SENSOR WILL RETURN TO RUN MODE



Q4X-WINDOW DETECTION ("FGS" MODE on sensor) Sets a window around a target.

TO PROGRAM THE SENSOR FOR THE APPLICATION

- 1. Press TEACH for longer than 2 seconds
- 2. Focus laser on target (part)
- 3. Press SELECT / TEACH to teach the part position

THE DISPLAY WILL FLASH THE SWITCH POINT THEN
THE SENSOR WILL RETURN TO RUN MODE

