

## General information

### B45 Programming

### Programming sensor parameters manually

#### Setting sensor switch point

There are three ways to set the switch point of the sensor:

- Manual mode
- Automatic mode (Static operation)
- Automatic mode (Dynamic operation)

#### Manual setting

1. If sensor pushbuttons are locked (usually when sensor is first powered up), simultaneously press "+" and "-" for five seconds (until green LED flashes once). The sensor is now unlocked.

*NOTE: If green LED is flashing continuously, the sensor is in the automatic "teach" mode. Press either "+" or "-" to reset sensor to manual setting mode.*

2. Place the target at the required distance within the sensing range. Use the "+" and "-" buttons to set the switch point. The red LED will flash every time a button is pushed. The push buttons can be held down for repeated actuation. The yellow LED indicates switch status.

*NOTE: If the red LED does not flash when a button is pushed, the end of the adjustable range has been reached or the keypad is locked. If pressing either the "+" or "-" button doesn't cause the red LED to flash, the keypad is locked. Go to Step 1.*

#### Automatic Setting – Static Mode (for stationary targets)

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1. If sensor push buttons are locked (usually when sensor is powered up), simultaneously press "+" and "-" for five seconds (until green LED flashes once). The sensor is now unlocked.

*NOTE: If the green LED is flashing continuously, sensor is already "teach" mode. Go to Step 3.*

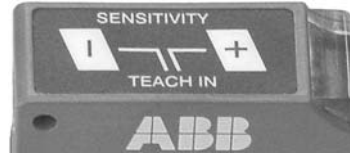
2. Press "+" and "-" simultaneously for one second, until the red LED turns off. The green LED will be flashing at 2 Hz which indicates the sensor is in "teach" mode.

3. Place the target at the desired sensing distance. The green LED will flash briefly at a higher frequency (4 Hz).<sup>①</sup> Once the green LED flashes at 2 Hz again the sensor is out of "teach" mode.

4. Press either one of the push buttons to store the switch point. The green LED will be lit continuously and the yellow LED will indicate switch status.

*NOTE: If the red LED is lit, there is an error. Go to Step 2.*

#### Automatic Setting – Dynamic Mode (for moving targets)



1. If sensor push buttons are locked (usually when sensor is powered up), simultaneously press "+" and "-" for five seconds (until green LED flashes once briefly). The sensor is now unlocked.

*NOTE: If the green LED is flashing continuously, sensor is already "teach" mode. Go to Step 3.*

2. Press "+" and "-" simultaneously for one second, until the red LED turns off. The green LED will be flashing at 2 Hz which indicates the sensor is in "teach" mode.

3. Move the target perpendicularly past the sensor at the desired sensing distance. The green LED will flash briefly at a higher frequency (4 Hz).<sup>①</sup> Once the green LED flashes at 2 Hz again, the sensor is out of "teach" mode.

4. Press either one of the push buttons to store the switch point. The green LED will be lit continuously and the yellow LED will indicate switch status.

*NOTE: If the red LED is lit, there is an error. Go to Step 2.*

<sup>①</sup> The time the green LED is flashing at a higher frequency may be too short to be observed.