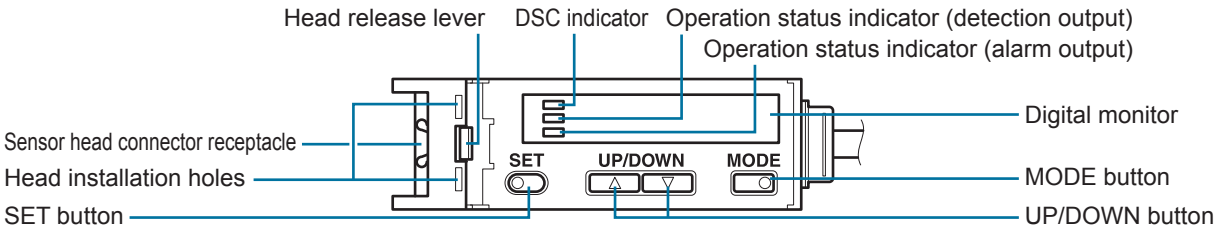
Oil and Water-proof Photoelectric Sensor

PX Series Setting Guide

For precautions and operation details, refer to the instruction manual included with the product.



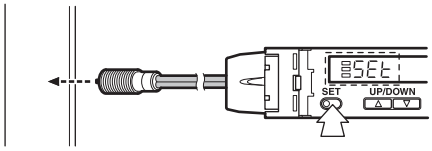


Calibration Method

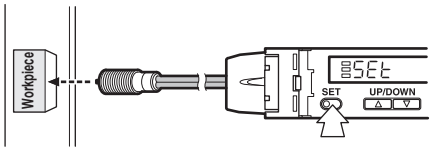
Two-point calibration

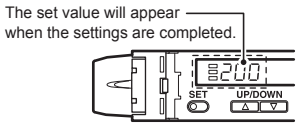
The value will be automatically set to the mid-point between when there is no workpiece and when there is a workpiece.

1 Press the SET button without any workpiece placed in front of the sensor head.



2 Place a workpiece placed in front of the sensor head, and press the SET button.



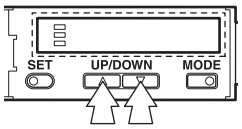


* When the difference is small., "----" is displayed.

Manual adjustment

The setting value can be finely adjusted manually.

Press UP/DOWN to change the setting value.



If the setting has become too complicated and you wish to start over...

Initializing the Settings

1 While pressing the MODE button, press the UP button or the DOWN button five times.

2 With the UP button or the DOWN button, select "rSt" and press the MODE button.

3 With the UP button or the DOWN button, select "in it" and press the MODE button to perform initialization.

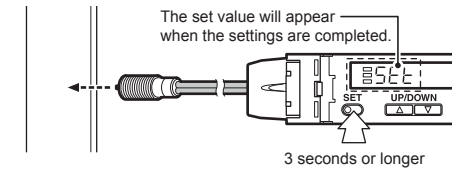
Other Calibration Methods

Maximum Sensitivity Setting

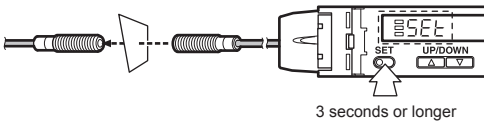
The value is set slightly higher than the received light intensity when the setting was made.
This is effective when light intensity is decreased due to dust and dirt.

1 Press the SET button for at least three seconds in the state as shown in the figure below. Release the button when "SET" flashes on the display.

Reflective



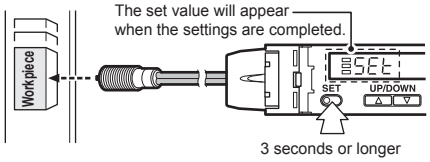
Thrubeam



Full Auto Calibration

The sensitivity can be automatically set while passing the workpiece through.
This is effective when the line operation cannot be stopped.

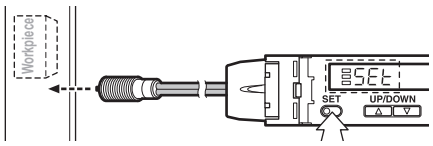
1 Press the SET button for at least three seconds while the target workpiece is passing the sensing area of the sensor head.
While the SET button is pressed, the sensitivity of the sensor will be set according to the incident values.



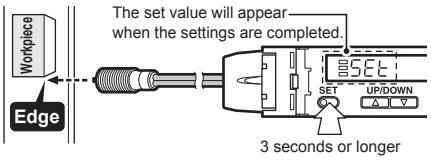
Positioning Calibration

This is effective when positioning the workpiece.

1 Press the SET button without any workpiece placed in front of the sensor head.



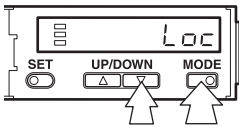
2 Place a workpiece on the position where you want to perform positioning.
Press the SET button for at least three seconds.
When the indication flashes, release the button.



Key Lock

The key lock function disables the operation of all keys.

1 Press and hold the UP button or the DOWN button for at least 3 seconds while holding down the MODE button.



- se the same procedure to deactivate keylock.
- During the operations shown above where the display shows "Loc", pressing and holding the MODE button for at least 3 seconds activates key lock mode with PIN number.
  Press the UP/DOWN buttons to enter a PIN number between 0 and 9999, then press the MODE button to activate the key lock. Use the same procedure to deactivate the function.

NOTICE	Write down the PIN number and store it some place safe so that you do not forget it. The lock cannot be released if an incorrect PIN number is entered.

Detailed Settings

Normally, only standard settings can be used.

Display each type of menu and change the settings as required.

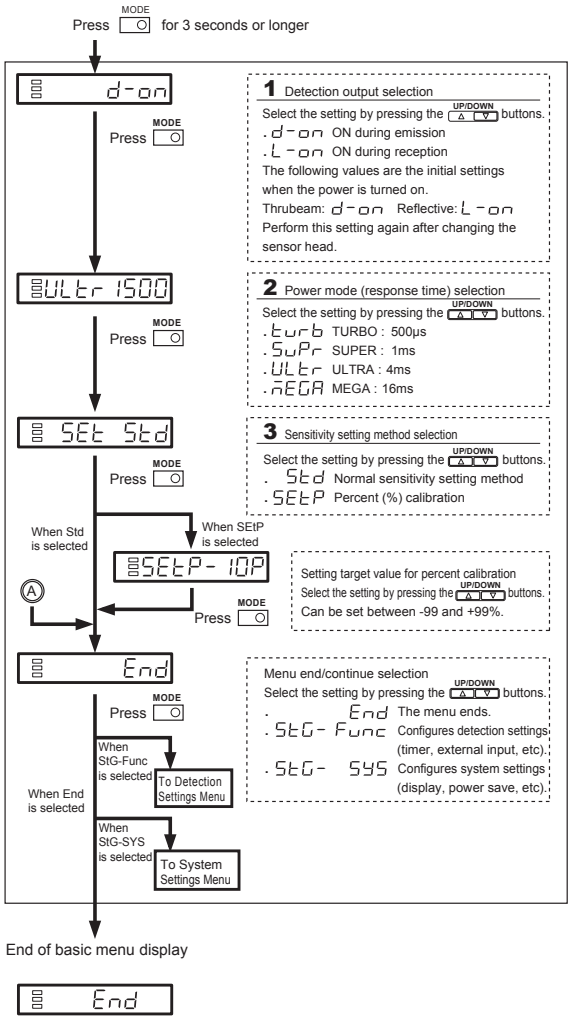
- Press and hold MODE for at least three seconds to return to the basic menu.
- Select a function with the UP/DOWN buttons and press the MODE button to set the value.
- Select END for each menu and press the MODE button to set the value.

Basic Settings Menu
1 Detection output selection
2 Power mode selection
3 Sensitivity setting method selection

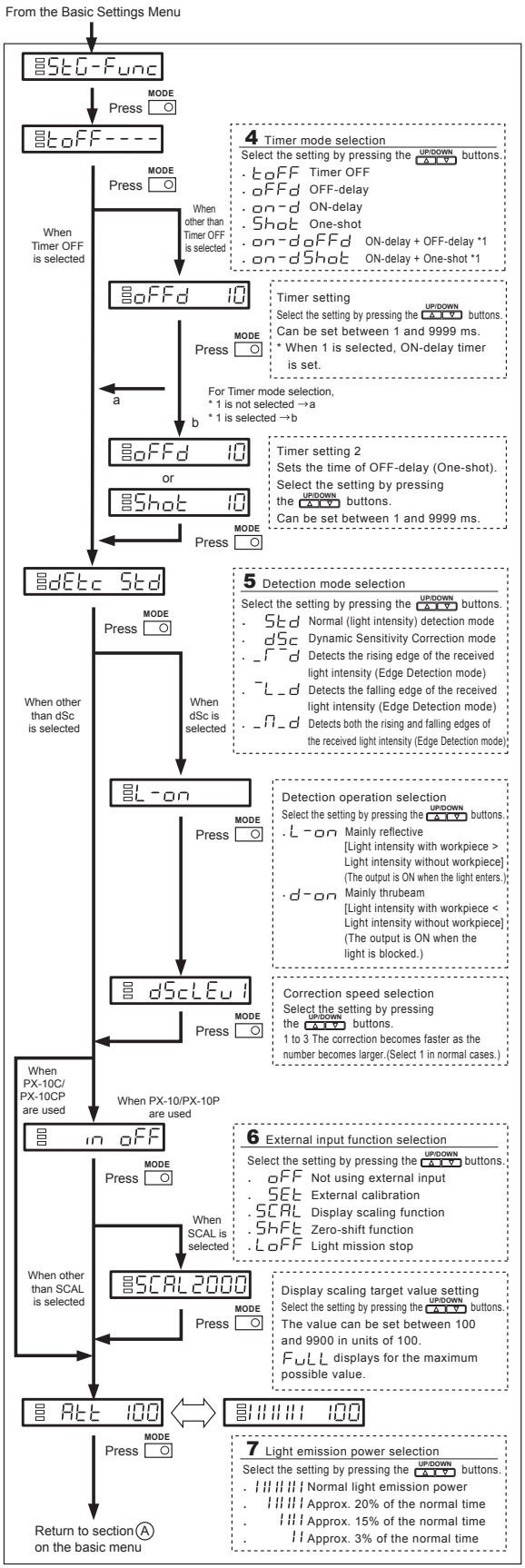
Detection Settings Menu
4 Timer mode selection
5 Detection mode selection
6 External input function selection (PX-10/10P only)
7 Light emission power selection

System Settings Menu
8 Display value correction function selection
9 Alarm output setting
10 Display selection during detection
11 Display reverse selection
12 Power save mode setting

Basic Settings Menu



Detection Settings Menu



Detailed Settings

System Settings Menu

