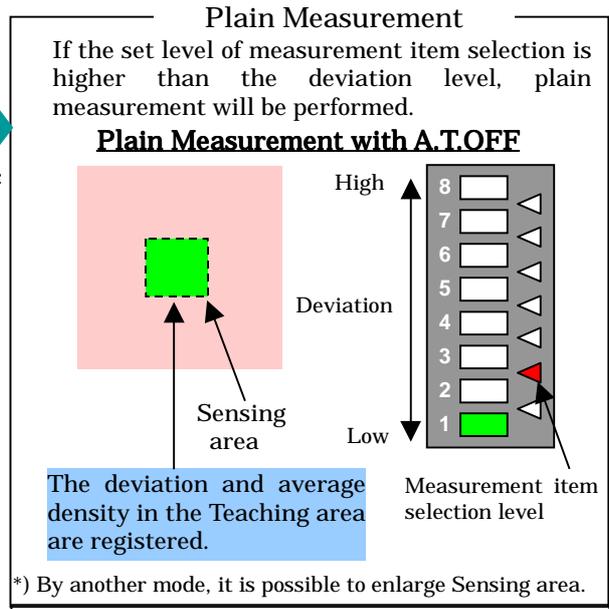
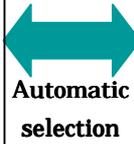
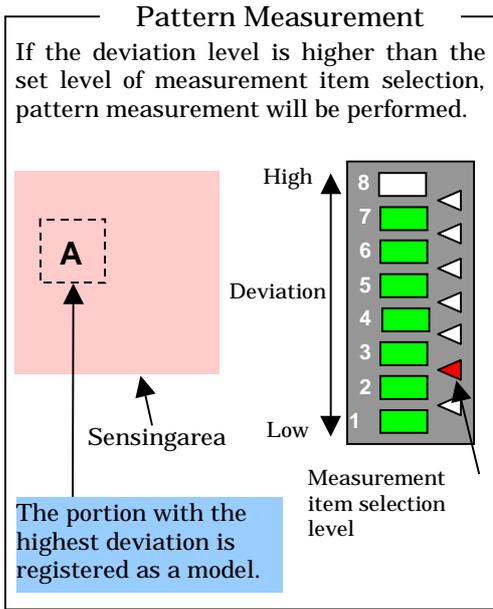
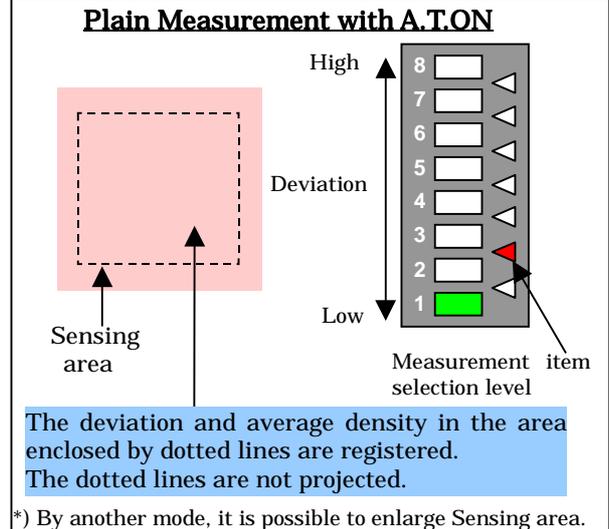


Measurement Item : PATT/PLN

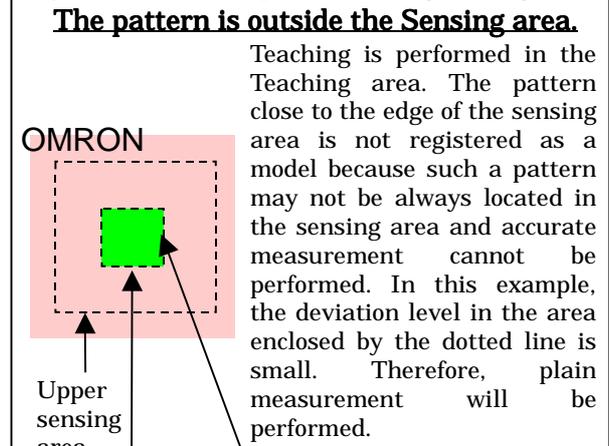
Whether measurement is patterned or plain is determined automatically by comparing the contrast with the background within the detection range. When teaching is finished, all the level indicators will light for 0.5 s, and the buzzer will sound twice.



*) By another mode, it is possible to enlarge Sensing area.



*) By another mode, it is possible to enlarge Sensing area.



Sensing area
The sensing area is restricted so that the pattern close to the edge will not influence the results of object discrimination.

Teaching Area
The deviation and average density in the Teaching area are registered in the above example.

POINT

The set level of measurement item selection is increased or decreased by pressing the SELECT buttons. Adjust the level according to the background and deviation. The level is factory - set between 2 and 3.

If the object has some light - color lines or light - color patterns, pattern measurement may be performed. In this case, by increasing the set level of measurement item selection, plain measurement will be performed.

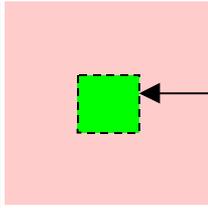
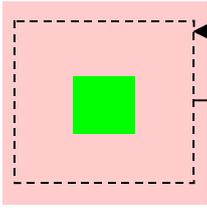
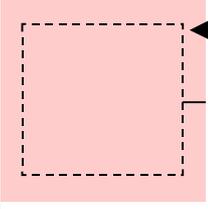
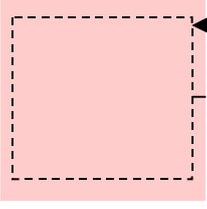
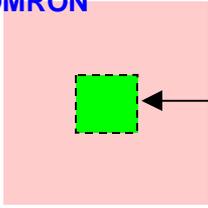
Note:) Do not turn OFF the Sensor before the Sensor is set to MONITOR mode, otherwise the teaching data will be lost.

Change of Plain Measurement Detection Range Selection Mode

*Detection range at Plain Measurement

Detection range at Plain Measurement is as following.

Mode 1 and 2 can be changed by the operation at the power supply input.

		Plain Measurement detection range selection mode	
		Mode 1(Initial setting)	Mode 2
A Plain Measurement with A.T.OFF	Detection range at measurement becomes the same size as the teaching area.  ← Detection range (=Teaching area)	Detection can be enlarged. It becomes the following dotted line frame.  ← Detection Range Approx.1.0mm (F10-S30R) Approx.0.5mm (F10-S15R) Approx.0.2mm (F10-S05R)	
	B Plain Measurement with A.T.ON	Detection range at measurement becomes the following dotted line frame.  ← Detection range Approx.4.0mm (F10-S30R) Approx.2.0mm (F10-S15R) Approx.0.7mm (F10-S05R)	Detection can be enlarged. It becomes the following dotted line frame.  ← Detection range Approx.1.0mm (F10-S30R) Approx.0.5mm (F10-S15R) Approx.0.2mm (F10-S05R)
		Detection range becomes small when a pattern is in the end as the following figure.  ← Detection range (=Teaching range)	

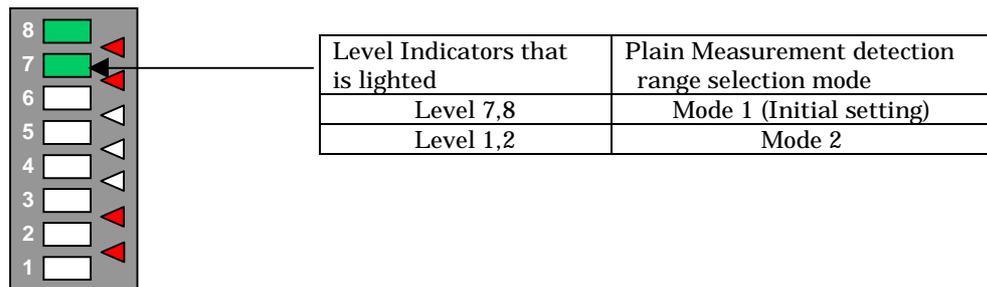
When using F10-C30/C35/C50/C55

When switching banks setting around of a bank to switch for Plain Measurement detection range selection mode different from the bank causes **Plain Measurement detection range type error**. Please note that you set the same mode as a bank to switch to around of the bank.

Mode Change Process

Process)

- 1 Change the Mode selector to TEACH, while the power supply is turning off. .
2. Turn on the power supply, while pushing the Teach/display button.
3. Release the Teach/display button after confirming that the illumination of each 2 pieces of the upper and the lower side of the Threshold Indicators.
4. The current Plain Measurement detection range selection mode is displayed to the Level Indicators.



5. Mode can be switched with the UP/DOWN selection buttons.
6. By pushing the Teach/display button after switching it's confirmed.

Please do not turn off the power supply before pushing the Teach/display button.
The setting is not changed

Monitor Mode

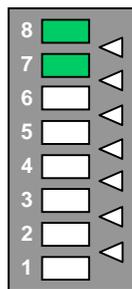
Plain Measurement detection range selection mode can be confirmed by processing as following.

Process)

1. Switch Mode Selector to MON.
2. Push the Teach/display button for more than 2 seconds.

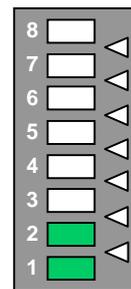
Plain Measurement detection range selection mode is displayed.

Mode 1



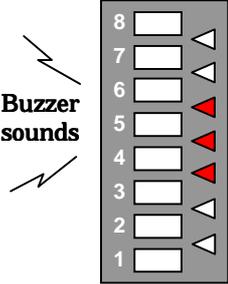
Action is returned to the normal Monitor mode after Level Indicators 7 and 8 are lighted for 3 seconds.

Mode 2



Action is returned to the normal Monitor mode after Level Indicators 1 and 2 are lighted for 3 seconds.

Trouble Shooting

Problem	Probable cause	Remedy
 <p data-bbox="236 611 592 701">This LED of the threshold indicators flashes and the buzzer sounds three times.</p>	<p data-bbox="619 315 1015 383">Plain Measurement detection range type error</p> <p data-bbox="619 383 1015 645">The Plain Measurement detection range selection mode in which F10 is currently set is different from that in which it is set when executing teaching, therefore, the sensor was set to MONITOR or RUN mode.</p>	<p data-bbox="1037 315 1449 577">Perform again the teaching of the Sensor in TEACH mode or change the Plain Measurement detection range selection mode set up in F10. Or, confirm whether you change it to applicable bank in case of F10-C30/C35/C50/C55.</p> <p data-bbox="1037 618 1380 678">➔ Refer to 4.1. TEACH mode.</p>