

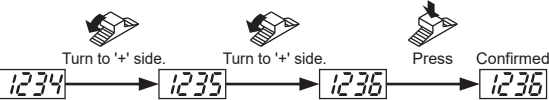
In case of full-auto teaching

- Full-auto teaching is used when it is desired to set the threshold value without stopping the assembly line, with the object in the moving condition.

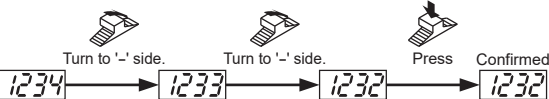
Step	Display	Description
①	1234	<ul style="list-style-type: none">Set the fiber within the sensing range.Press MODE key to light up MODE indicator / TEACH (yellow).
②	567	<ul style="list-style-type: none">Press Jog switch continuously for 0.5 sec. or more with the object moving on the assembly line. (The incident light intensity is displayed during sampling.)
③	Ruto	<ul style="list-style-type: none">'Ruto' is displayed on the digital display. Release the jog switch when the object has passed.
④	Good	<ul style="list-style-type: none">If the teaching is accepted, the read incident light intensity blinks in the digital display and the threshold value is set at the mid-value between the incident light intensities in the object present and the object absent conditions. After this, the judgment on the stability of sensing is displayed. In case stable sensing is possible: 'Good' is displayed. In case stable sensing is not possible: 'HRR-d' is displayed.
⑤	900	<ul style="list-style-type: none">The threshold value is displayed.
⑥	1234	<ul style="list-style-type: none">The incident light intensity appears in the digital display and the setting is complete.

10 THRESHOLD VALUE FINE ADJUSTMENT MODE

- Fine adjustment of the threshold value can be done when MODE indicator / ADJ (yellow) lights up.
- When Jog switch is turned to the '+' side, the threshold value increases (sensitivity decreases). When Jog switch is pressed, the threshold value is confirmed.



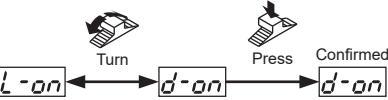
- When Jog switch is turned to the '-' side, the threshold value decreases (sensitivity increases). When Jog switch is pressed, the threshold value is confirmed.



Note: Set the threshold value at least a bit higher than the minimum threshold value. (The minimum threshold value is where the value cannot be lowered any further even if the jog switch is turned to '-' side.)

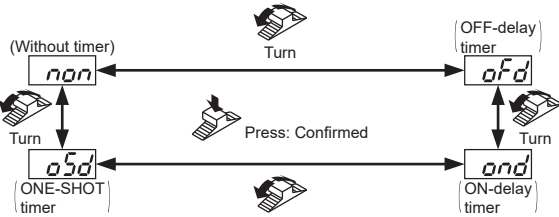
11 OUTPUT OPERATION SETTING MODE

- The output operation setting can be done when MODE indicator / L/D (yellow) lights up.
- The output operation is changed when Jog switch is turned to the '+' side or the '-' side. When Jog switch is pressed, the threshold value is confirmed.



12 TIMER OPERATION SETTING MODE

- The setting for whether the timer is used or not can be done when MODE indicator / TIMER (yellow) lights up.
- 10ms OFF-delay (initial value) timer is automatically set when the timer is set to be used.
- Refer to 13 PRO MODE / PRO1 mode setting' for the setting method of the OFF-delay timer, ON-delay timer and ONE-SHOT timer intervals.



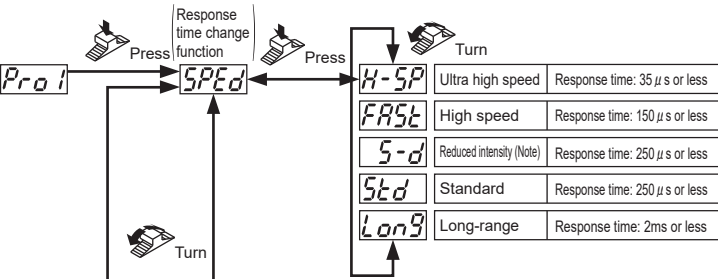
Notes: 1) The timer interval set in the PRO mode is displayed.
2) The factory setting is without timer 'non'.

13 PRO MODE

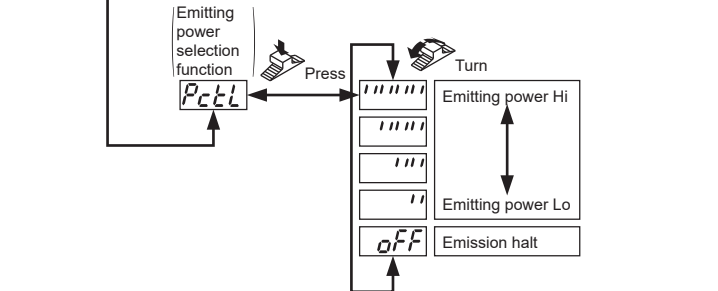
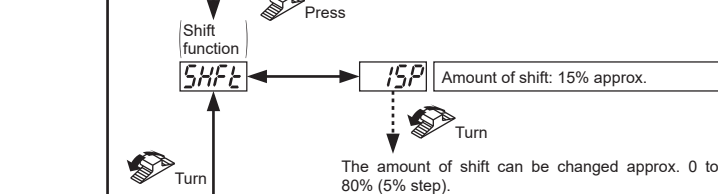
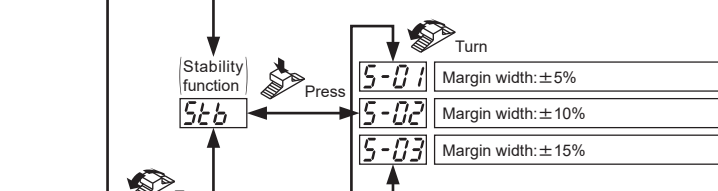
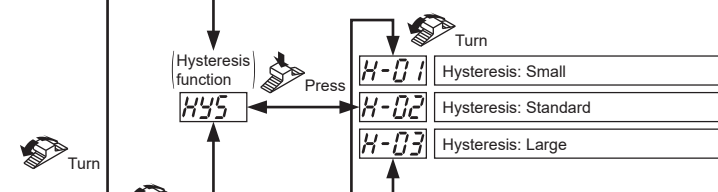
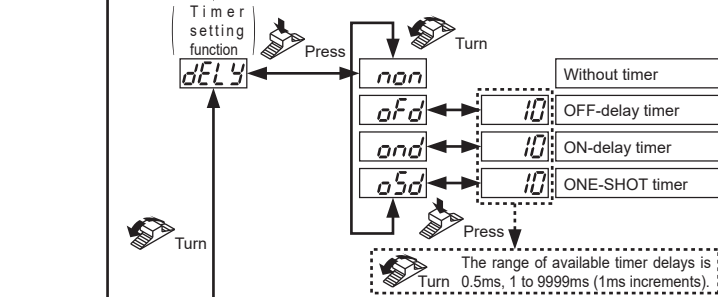
For details of the settings and the setting procedure of the PRO mode, refer to 'Panasonic Industrial Devices SUNX website (<http://panasonic.net/id/pidsx/global>)' or contact our office.

- PRO settings can be done when MODE indicator / PRO (yellow) lights up.

PRO1 mode setting

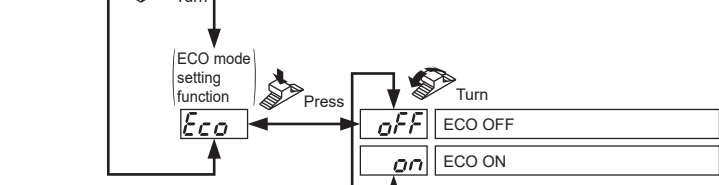
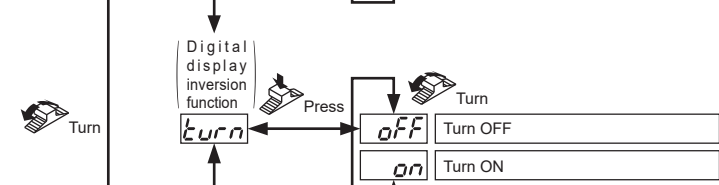
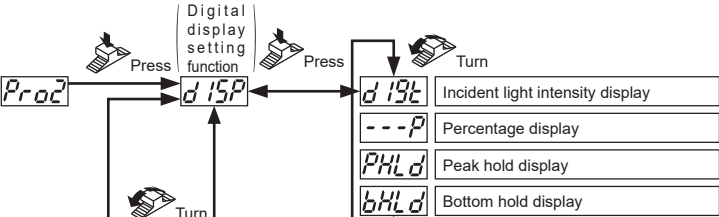


Note: The S-D mode is suitable for delicate sensing, such as when the received lights is saturated due to too short a sensing distance or when detecting translucent objects, etc.

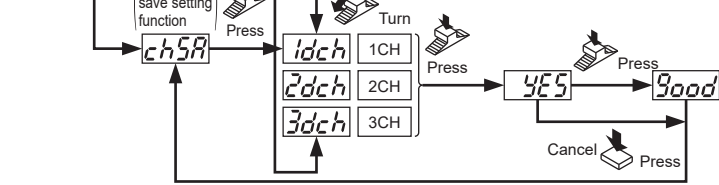
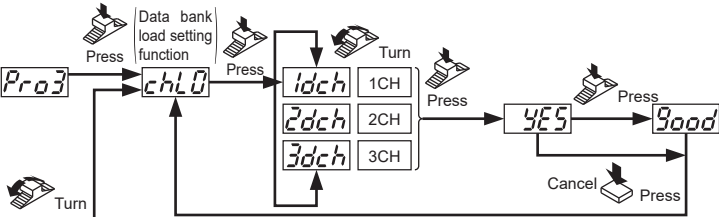


Note: Only in the response time · H-SP mode, ON condition, the emitting power is 2 level.

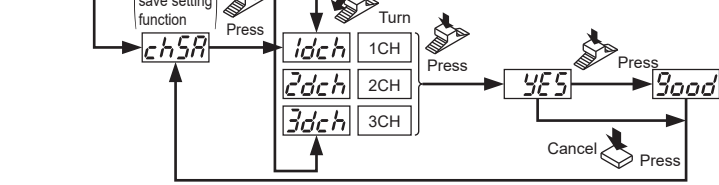
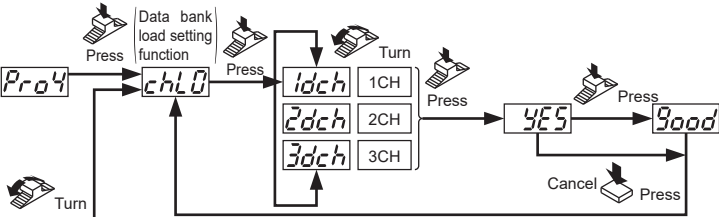
PRO2 mode setting



PRO3 mode setting



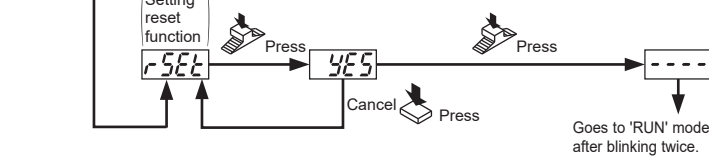
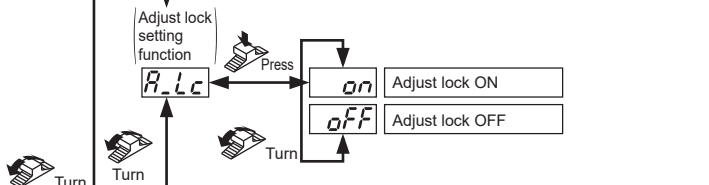
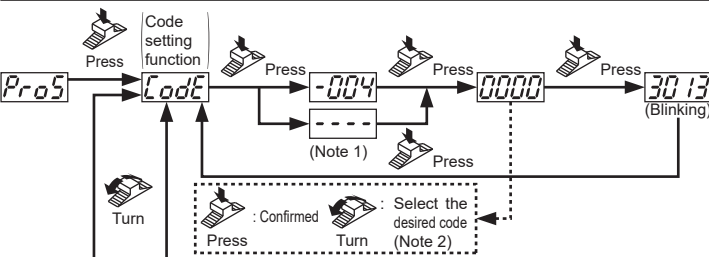
PRO4 mode setting



Take care that if this product and the other digital fiber amplifiers are mounted in cascade. The setting method is the same as well.

PRO5 mode setting

The 0-ADJ setting function in this product was removed from production starting May, 2005.



Notes: 1) When any code other than the codes given in the code setting table below is used, '-' is displayed.
The initial setting of the response time for this product is 'H-SP', which is not in the code setting table, as shown below. Thus, the factory setting is displayed as 604.
2) When the code setting function is used, refer to the 'Code setting table' given below.

Code setting table

1st figure		2nd figure			3rd figure			4th figure		
Direct code	Response time	Hyster-esis	Direct code	L-ON/ D-ON	Display	Direct code	Adjust lock	Timer operation	Direct code	Timer
	STD	H-02 (standard)		L-ON	digit		ON	NON		OFF
	STD	H-03 (large)		L-ON	Percent		ON	OFF-delay		1ms
	STD	H-01 (small)		L-ON	Peak hold		ON	ON-delay		3ms
	LONG	H-02 (standard)		L-ON	Bottom hold		ON	ONE-SHOT		5ms
	LONG	H-03 (large)		D-ON	digit		OFF	NON		10ms
	LONG	H-01 (small)		D-ON	Percent		OFF	OFF-delay		30ms
	FAST	H-02 (standard)		D-ON	Peak hold		OFF	ON-delay		50ms
	FAST	H-03 (large)		D-ON	Bottom hold		OFF	ONE-SHOT		100ms
	FAST	H-01 (small)	—	—	—	—	—	—		300ms
	S-D	H-02 (standard)	—	—	—	—	—	—		500ms
—	—	—	—	—	—	—	—	—		1s
—	—	—	—	—	—	—	—	—		2s
—	—	—	—	—	—	—	—	—		3s
—	—	—	—	—	—	—	—	—		4s
—	—	—	—	—	—	—	—	—		5s

3) In order to change PRO mode setting to 'RUN' mode, press MODE key for 2 sec. or more.
4) The response time 'H-SP' cannot be set by using the code setting function.

14 KEY LOCK FUNCTION

- If the jog switch and MODE key are pressed for more than 2 sec. at the same time in 'RUN' mode condition, the key operations are locked, and only the threshold value confirmation function or the adjust function (valid only when the adjust lock function is canceled) is valid. To cancel the lock function, press both the keys for more than 2 sec. once again.

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