

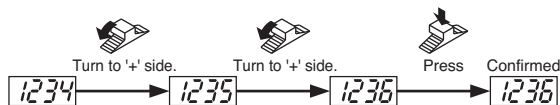
In case of full-auto teaching

- 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.

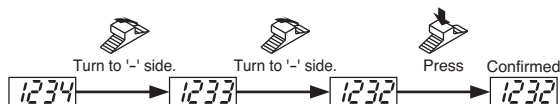
Step	Display	Description
1	1234	Set the fiber within the sensing range. Press MODE key to light up MODE indicator / TEACH (yellow).
2	567	Press Jog switch continuously for 0.5 sec. or more with the object moving on the assembly line. (The incident light intensity is displayed during sampling.)
3	Ruto	'Ruto' is displayed on the digital display. Release the jog switch when the object has passed.
4	Good	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	The threshold value is displayed.
6	1234	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.



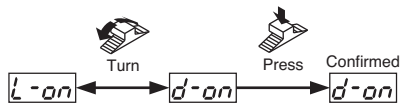
- When Jog switch is turned to the '-' side, the threshold value decreases (sensitivity increases). When Jog switch is pressed, the threshold value is confirmed.



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.)

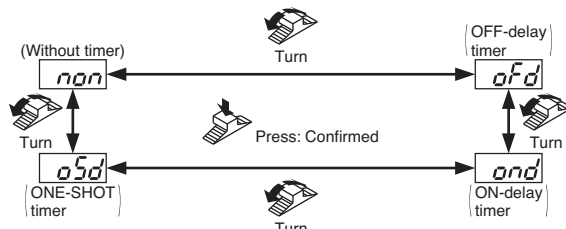
11 OUTPUT OPERATION SETTING MODE

- 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.



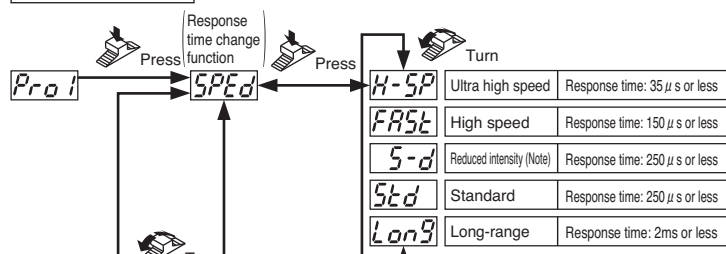
Notes: 1) The timer interval set in the PRO mode is displayed.
2) The factory setting is without timer 'non'.

13 PRO MODE

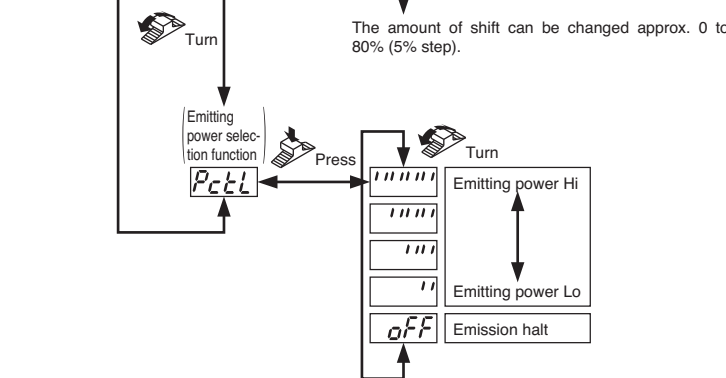
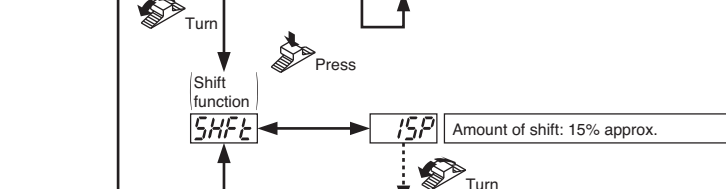
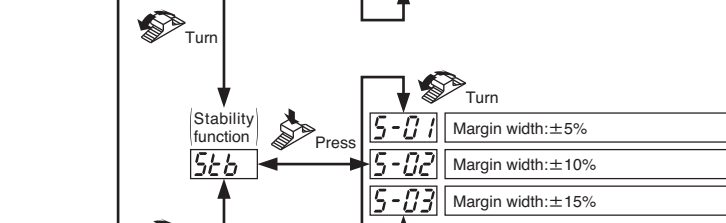
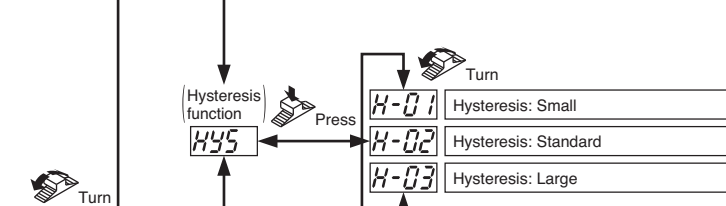
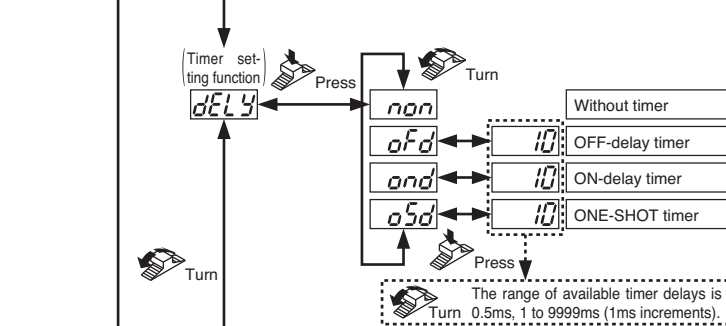
For details of the settings and the setting procedure of the PRO mode, refer to 'Panasonic Industrial Devices SUNX website (<http://panasonic.net/id/pidsx/global/>)' or contact our office.

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

PRO1 mode setting

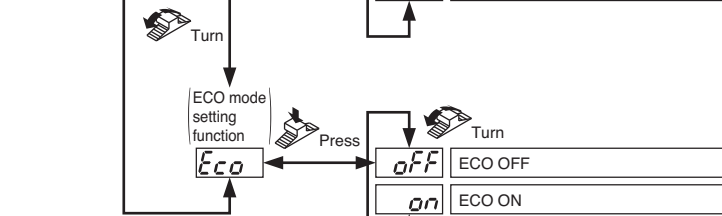
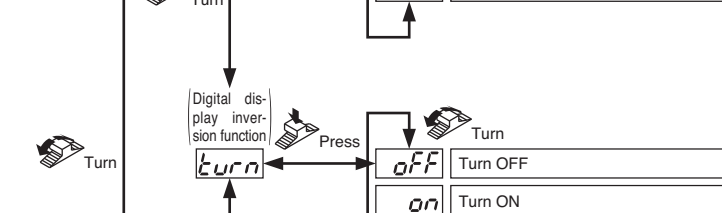
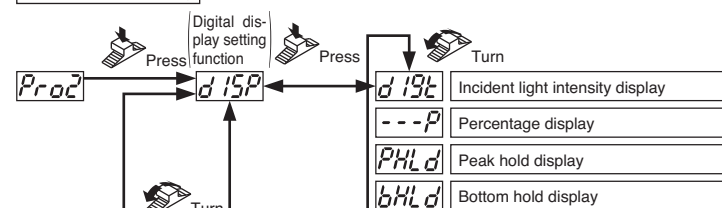


Note: The S-D mode is suitable for delicate sensing, such as when the received lights is saturated due to too short a sensing distance or when detecting translucent objects, etc.

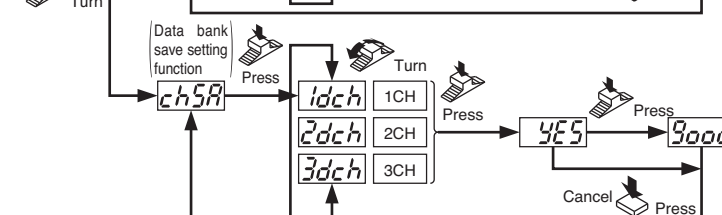
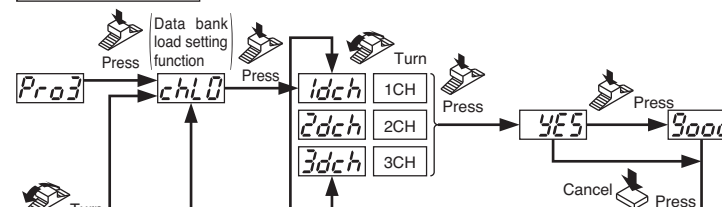


Note: Only in the response time · H-SP mode, ON condition, the emitting power is 2 level.

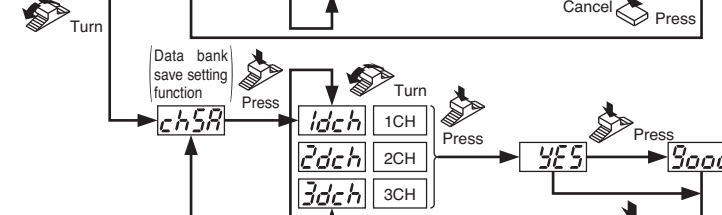
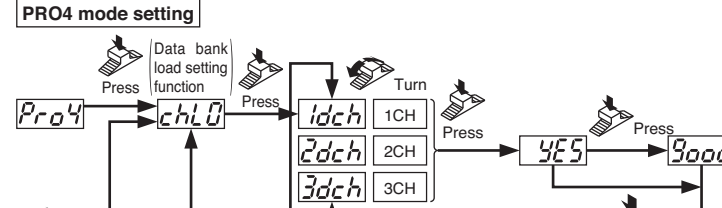
PRO2 mode setting



PRO3 mode setting



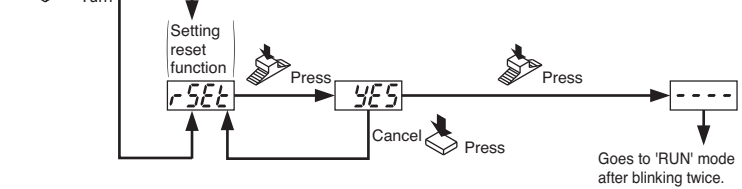
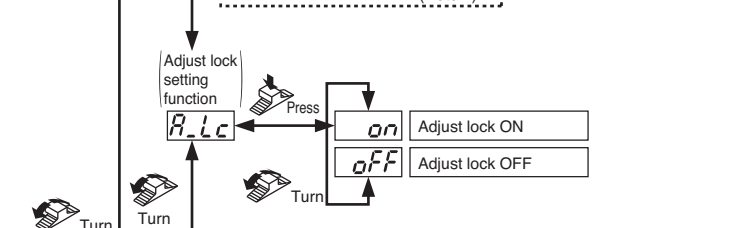
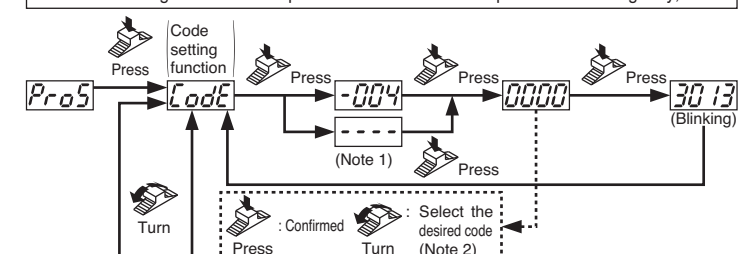
PRO4 mode setting



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 '-004'.
2) When the code setting function is used, refer to the 'Code setting table' given below.

Code setting table

Direct code	Response time	Hysteresis	2nd figure			3rd figure		4th figure		
			Direct code	L-ON/D-ON	Display	Direct code	Adjust lock	Timer operation	Direct code	Timer
0	STD	H-02 (standard)	0	L-ON	digit	0	ON	NON	0	OFF
1	STD	H-03 (large)	1	L-ON	Percent	1	ON	OFF-delay	1	1ms
2	STD	H-01 (small)	2	L-ON	Peak hold	2	ON	ON-delay	2	3ms
3	LONG	H-02 (standard)	3	L-ON	Bottom hold	3	ON	ONE-SHOT	3	5ms
4	LONG	H-03 (large)	4	D-ON	digit	4	OFF	NON	4	10ms
5	LONG	H-01 (small)	5	D-ON	Percent	5	OFF	OFF-delay	5	30ms
6	FAST	H-02 (standard)	6	D-ON	Peak hold	6	OFF	ON-delay	6	50ms
7	FAST	H-03 (large)	7	D-ON	Bottom hold	7	OFF	ONE-SHOT	7	100ms
8	FAST	H-01 (small)	-	-	-	-	-	-	8	300ms
9	S-D	H-02 (standard)	-	-	-	-	-	-	9	500ms
-	-	-	-	-	-	-	-	-	R	1s
-	-	-	-	-	-	-	-	-	b	2s
-	-	-	-	-	-	-	-	-	c	3s
-	-	-	-	-	-	-	-	-	d	4s
-	-	-	-	-	-	-	-	-	e	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.

15 INTENDED PRODUCTS FOR CE MARKING

- The models listed under "SPECIFICATIONS" come with CE Marking. As for all other models, please contact our office.
- Contact for CE
<Until June 30, 2013>
Panasonic Electric Works Europe AG
Rudolf-Diesel-Ring 2, D-83607 Holzkirchen, Germany
<From July 1, 2013>
Panasonic Marketing Europe GmbH Panasonic Testing Center
Winsbergiring 15, 22525 Hamburg, Germany

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