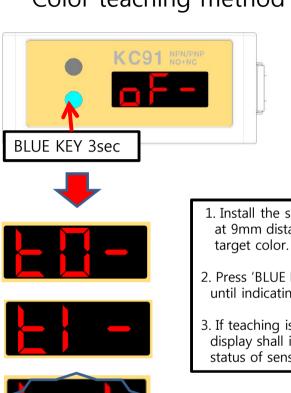


- 1. GRAY KEY
 - Color Balance (will change to SET MODE)
- 2. BLUE KEY
 - Color teaching
- 3. GRAY KEY + BLUE KEY
 - Release key lock mode
 - Parameter setting confirm

- •Normal mode display indication
 - #1: Output type
 - → NO : o, NC : c
 - #2 : Key locking
 - → KEY LOCK ON: C, KEY LOCK OFF: F
 - #3 : Output signal
 - → Output on : O, Output off : -

** Color teaching method

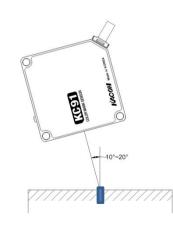


- 1. Install the sensor and fix at 9mm distance from
- 2. Press 'BLUE KEY' 3 sec until indicating 'tch'.
- 3. If teaching is done, display shall indicate status of sensor.

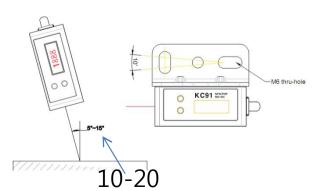
Color teaching guide

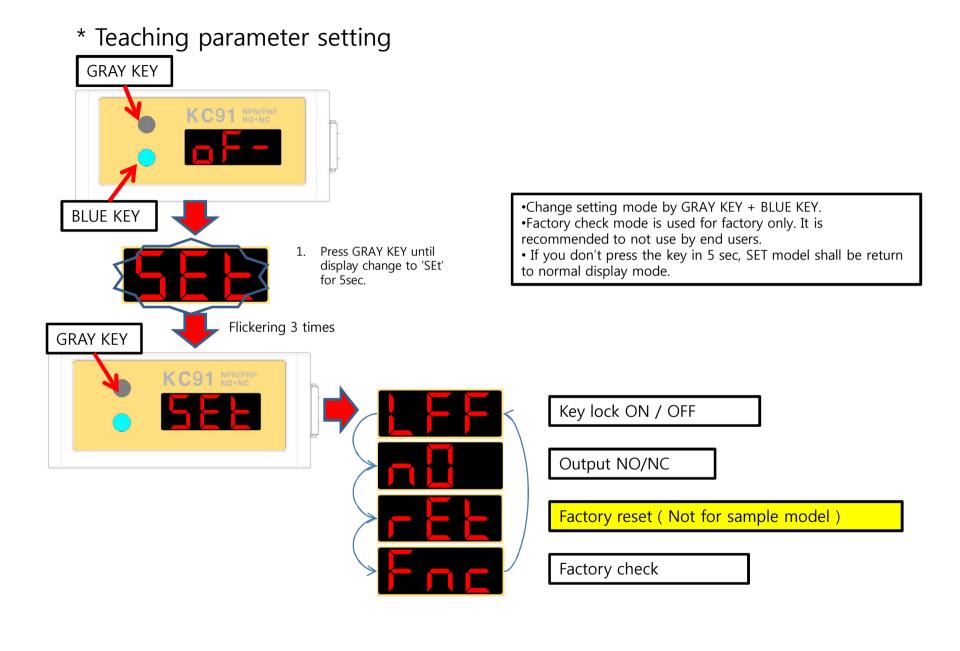
- Please check it is can distinguish background and target color when color teaching is done.
- If you detection glossy object, Mount the sensor at an angle of 10° to 20°, as following diagrams
- If you adjust color balance in balancing mode, you shall need to teach color again.
- When you have done the teaching, key locking is recommended to prevent in case of changing teaching values by event of push keys.



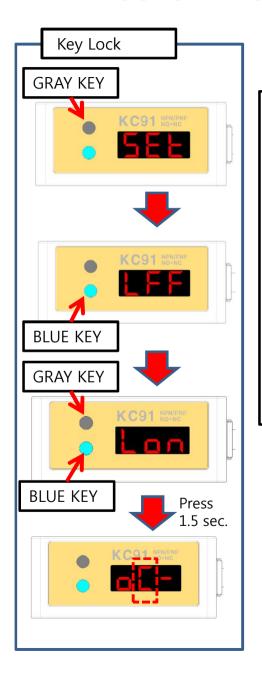




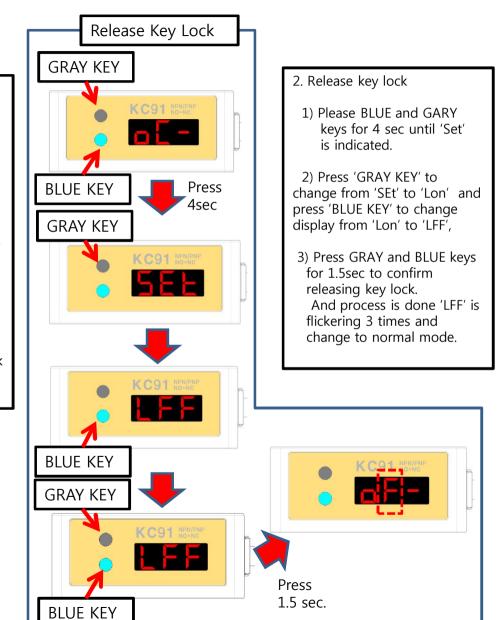




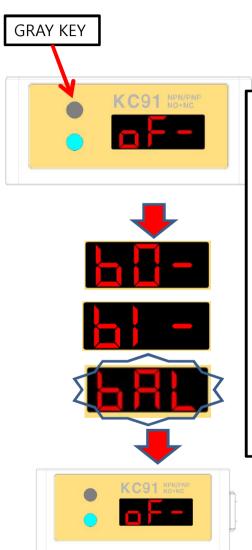
1. KEY LOCK SETTING



- 1. Key lock on
- 1) Get into 'SEt' mode and change to 'LFF' by GRAY KEY input 1 time.
- 2) Change display from 'Lon' to 'LFF' by BLUE KEY input and press 'BLUE and GRAY Keys for 1.5 sec to confirm the Key Lock setting.
- 3) Display shall shows 'Loc' when you push the keys after Key lock setting.



2. Color balance

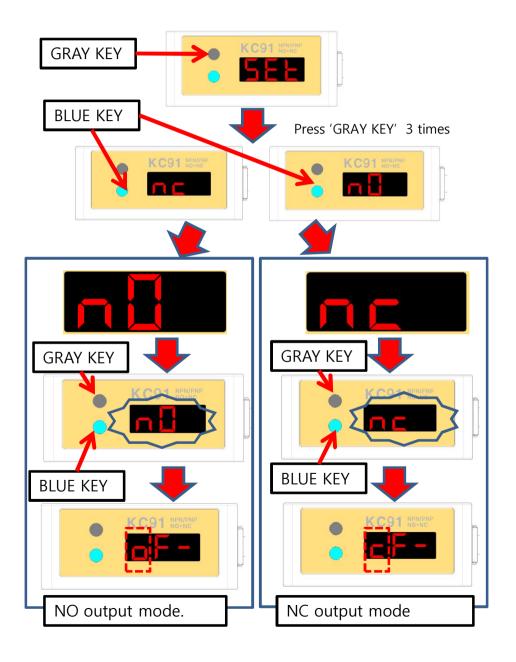


- 1. Press GRAY KEY till 'BAL' is displayed.
- 2. Place <u>non-shining white</u> <u>paper or background</u> <u>color*</u> at the same position of teaching color.
- 3. Once color balance is done 'BAL' is flicking 3 times and return to normal mode.
- If you have variety color on background of teachig color, you shall place non-shining white paper. And if the background color is only one, you shall set the color balance on background directly.

•Caution to set color balance :

- KC91 has got default color balance value from factory
- But if you are facing some difficult of distinguish color between background and teaching color, you shall try color balance setting to apply circumstance of teaching color to operation algorithm.
- •Also color balance value is not set correctly KC91 shall not operate as its own purpose. So please pay attention direction of manual when you set the color balance.
- •You shall return to default color balance value by factory reset funtion.

3. OUTPUT NO/NC



Output mode:

nO: Release a output signal for teaching color. It is a factory default setting value.

nC : It is reverse signal of nO. It release output signal for background of teaching color.

- 1. Press 'GRAY KEY' 3 times till 'nO' or ' nc' is displayed.
- 2. Press 'BLUE KEY' to change mode 'nc' or 'nO' and press BLUE and GRAY keys for 1.5 sec to confirm the changed output mode. Once setting is done 'nc' or 'nO' is flicking 3 times and return to normal mode.

4. Factory Reset (not for sample products)

