

Teaching

Press TEACH button for 3 seconds.
Choose Teaching mode by pressing [] or []. Then, press [] to confirm. When Teaching is done, it goes back to RUN mode after the threshold blinks. You can refer current sensing level by pressing MODE while teaching.

1. 2 point Teaching
Top
Threshold is set at center of 1st and 2nd level.
Teach twice with object and without object.

2. 1 point Teaching (1)
Top
Threshold is set at minimum level that enable stable detection.
Good for long distance

3. 1 point Teaching (2)
Top
Teaching with only background for diffuse reflective mode. Threshold is set at minimum level that enable stable detection.

4. Through Teaching
To
Threshold is set at around 90% of sensing level.
Good for detecting transparent object like Glass and Film.

5. Zone Teaching
To
Threshold is set at around sensing level ±10%.
Good for detecting object in the area specified.

6. Automatic Teaching
Top
Threshold is set at the center between maximum and minimum level. Good for teaching without stopping production line.

7. Percent Teaching
Top
You can set threshold at any percentage adjusted.
By setting sensing level without object that block the beam as 100%, it can detect the level as relative percentage level.
Re-Teaching can be done by single button action while RUN mode. Refer "Useful function Fitting in".

8. Zero percent Teaching
Top
Set any percentage adjusted to 0% as threshold.
For diffuse reflective mode, set the sensing level with only background 0% and detect the level as relative percentage level.
Re-Teaching can be done by single button action while RUN mode. Refer "Useful function Fitting in".

Exit the Teaching mode
By pressing TEACH button, it goes back to RUN mode.

Expert mode

Setup parameters for further function.

4-1.Zero reset
Top
Reset the sensing level shown on the main display to zero and shift the threshold shown on the sub display as much as the main display shifted. This function is not active when percent mode and edge detection mode.

4-2.Display mode
Top
Choose display mode from following three

4-3.Eco mode
Top
Set Eco mode

4-4.Rotation
Top
Rotate the display 180 degree

4-5.Hysteresis
Top
Set Hysteresis percentage

4-6.Detection mode
Top
Set Detection mode

Set filter level for edge detection

4-7.Counter
Top
Switch ON/OFF Counter and specify UP/DOWN direction

4-8.External input
Top
Set function of external input

4-9.ASC
Top
Set ON/OFF ASC (Automatic Sensitivity control)

4-10.Emitter power
Top
Specify emitter power

4-11.Lock level
Top
Specify level of Key Lock

4-12.Save
Top
Save the current setup parameters

End EPrt Exit Expert menu
EPrt Go to top of Expert menu

Useful function

Switch channel (only for the 2 output type D3RF-TD)
Press [] button then, the channel number will be blinking and switch to the channel.

Key Lock
Make the buttons unavailable to prevent operation mistake.
Press [] [] for 3 seconds to Lock buttons at a time while RUN mode. Do same to cancel it.

Switching to RUN mode by single action
By pressing [] button for 3 seconds in setup menu while sub display is not blinking.

Switching to percent display by single action
Press [] and [] buttons at a time then, the display switches to percent display.

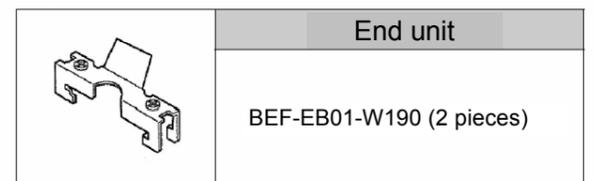
Fitting in (set sensing level to "100%"/"0%")
When "Percent Teaching" or "Zero % Teaching" is chosen in Teaching menu, you can set the sensing level to "100%" or "0%" by pressing [] and [] buttons at a time. This is effective when detection get unstable.

Error

Following are error messages when error occurred while Teaching. Please try again accordingly.

Err1	Sensing level is not enough
Err2	Sensing level is saturated
Err3	Difference of sensing level between two points

Option



Specification is subject to change without notice.
Please contact following when you had any problems and questions regarding to this products.