追 加 附 录

MCE-LX111BCC NO.0047-63V

■ Gain 功能

通过Gain功能调节可改变产品内部对入光量的判断(即阈值调节)。

◆Gain功能的几种状态

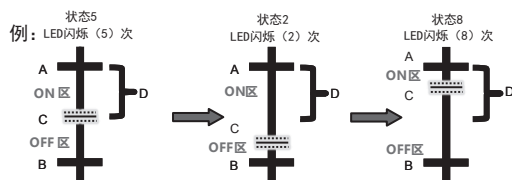| 状态	数值	LED灯(点灯次数)
1	C = C - D*80%	1
2	C = C - D*60%	2
3	C = C - D*40%	3
4	C = C - D*20%	4
5(注1)	C = C	5
6	C = C + D*20%	6
7	C = C + D*40%	7
8	C = C + D*60%	8
9	C = C + D*80%	9

注1：产品出厂设定状态，即改善前LX-111产品的设定状态。

注2：C 值为阈值；
　　　D 值为色标(A)与背景标(B)入光量的1/2

◆ Gain 功能示意图

进入Gain功能后，如不进行任何操作，LED灭0.5S后，闪烁(X)次，闪灯次数，表示当前产品所处的状态。

例：
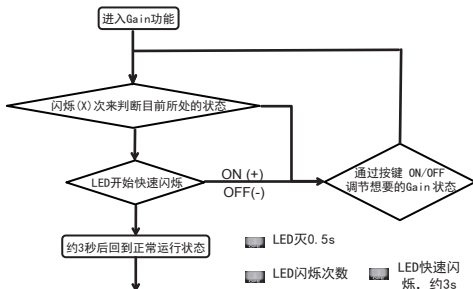状态5 LED闪烁（5）次
状态2 LED闪烁（2）次
状态8 LED闪烁（8）次

• A、B、C、D 为入光量的AD值

注： A 值为色标的入光量
　　 B 值为背景标的入光量

◆ Gain功能进入及操作方法

· 在正常运行状态下，为了便于观察，请在LED灭的状态下，先按一次OFF键，再长按ON键不放，约6秒后，LED灯亮，松开ON键，即可进入Gain调节功能。

· 进入Gain功能后，按ON键(+)和OFF键(-)可以调节Gain所处状态。

· 调整完后，无需再导教，可直接开始检测。

◆Gain功能的调节操作和LED 的表示

进入Gain功能

闪烁(X)次来判断目前所处的状态

LED开始快速闪烁　ON (+) OFF(-)　通过按键 ON/OFF 调节想要的Gain 状态

约3秒后回到正常运行状态

LED灭0.5s
LED闪烁次数
LED快速闪烁，约3s

■ The 'Gain' Function

The judgments to the reflected light variation can be changed(Threshold value adjustment) through the 'Gain' function.

◆Several conditions of the 'Gain' function

Conditions	Values	LED's twinkle times
1	C = C - D*80%	1
2	C = C - D*60%	2
3	C = C - D*40%	3
4	C = C - D*20%	4
5(Note1)	C = C	5
6	C = C + D*20%	6
7	C = C + D*40%	7
8	C = C + D*60%	8
9	C = C + D*80%	9

Note 1 :Factory Setting Condition
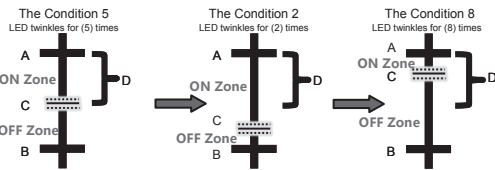(Which is the condition before
the adjustment of the 'Gain' function.)

Note 2 : Value C stands for the threshold value;
Value D stands for a half of the reflected light variation between
the mark(A) and the base(B).

◆ The 'Gain' Function

When the 'Gain' begins, the sensor is in the corresponding condition with the LED's twinkle times(X) after the LED is off for 0.5s without any operations.
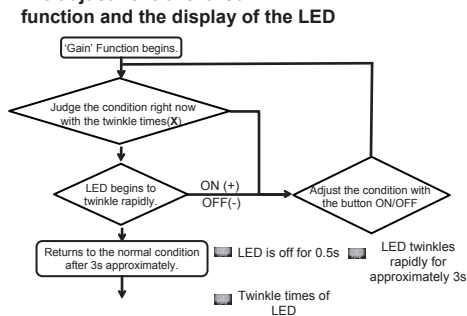
Example：

The Condition 5
LED twinkles for (5) times

The Condition 2
LED twinkles for (2) times

The Condition 8
LED twinkles for (8) times

A, B, C, D mean the analog/digital value of the reflected light variation.

**Note: Value A stands for the reflected light variation of the mark;
Value B stands for the reflected light variation of the base.**

◆ The operation of the 'Gain' function

· For a better observation, please press the button OFF for one time at the normal condition when the LED is off, and then press the button ON along for approximately 6s until the LED is on. And now, the 'Gain' function begins.

· After the 'Gain' function begins, you may adjust the conditions of the 'Gain' by the button ON/OFF.

· It is not necessary to teach again after the adjustment and the sensor can be used immediately.

◆ The adjustment of the 'Gain' function and the display of the LED

'Gain' Function begins.

Judge the condition right now with the twinkle times(X)

LED begins to twinkle rapidly.　ON (+) OFF(-)　Adjust the condition with the button ON/OFF

Returns to the normal condition after 3s approximately.

LED is off for 0.5s
Twinkle times of LED
LED twinkles rapidly for approximately 3s