

가

(1 PNP 1 NPN)

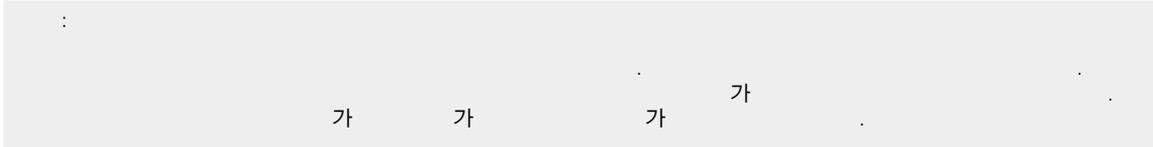
1 CMOS

가 Q4X

[www.bannerengineering.com](http://www.bannerengineering.com)

p/n 181483

가

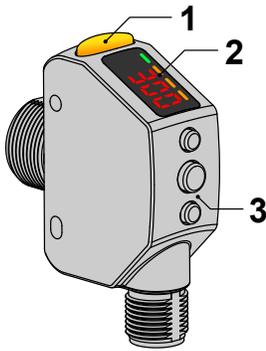


가

가

가

가



1:

1. ( )
- 2.
- 3.



2:

- 4, 7 LED
- mm
1. (STB = )
  2.
    - DYN = ( )
    - FGS = ( )
    - BGS = ( )

- — ( )
- — ( )

(STB)

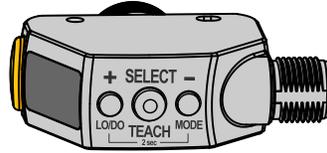
- —
- —
- —

(DYN, FGS, BGS)

- DYN, FGS, BGS = 2 ( )
- DYN =

- FGS = (Foreground setting)
- BGS = (Background setting)

(SELECT)(TEACH), (+)(LO/DO), (-)(MODE)



(SELECT)(TEACH)

- 2 ( 2 )가

(+)(LO/DO)

- 가
- 2 (LO) (DO)

(-)(MODE)

- 가
- 2 가



[Redacted text block]



[Redacted text block]

1

1

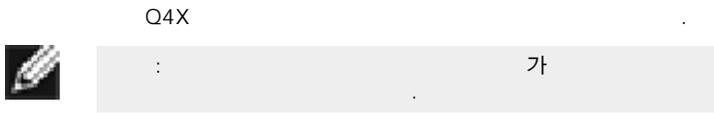
가

COMPLIES WITH 21 CFR 1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE No. 50, DATED JUNE 24, 2007. BANNER ENGINEERING CORP. 9714 10TH AVENUE NORTH MINNEAPOLIS, MN 55441	<b>CLASS 1 LASER PRODUCT</b>	COMPLIES WITH IEC 60825-1:2007
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: 655 nm

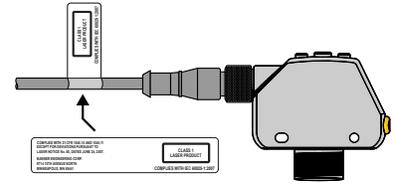
: < 0.20 mW

: 7 μs ~ 2 ms

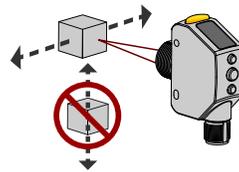


- 1.
- 2.
- 3.

Q4X



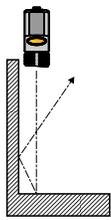
3:



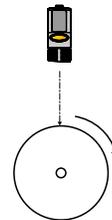
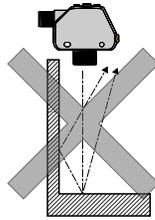
4:

Q4X 가 가 8 ( )

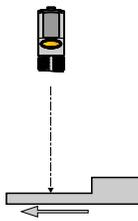
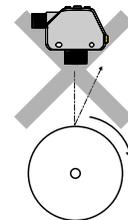
가



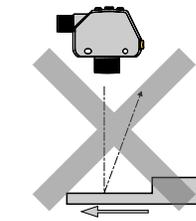
5:



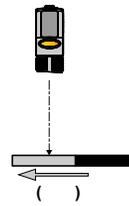
6:



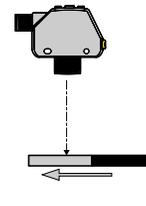
7:



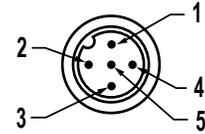
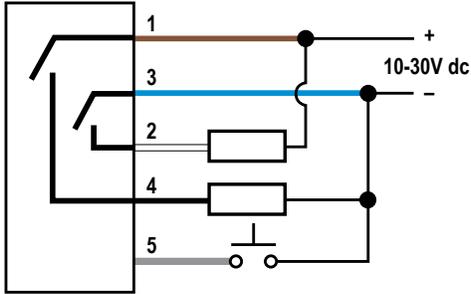
가



8:



- 1.
2. ( )
- 3.
4. ( )



- 1 =
- 2 =
- 3 =
- 4 =
- 5 =



: \_\_\_\_\_



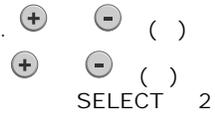
: \_\_\_\_\_ 가  
( )

(stray light)

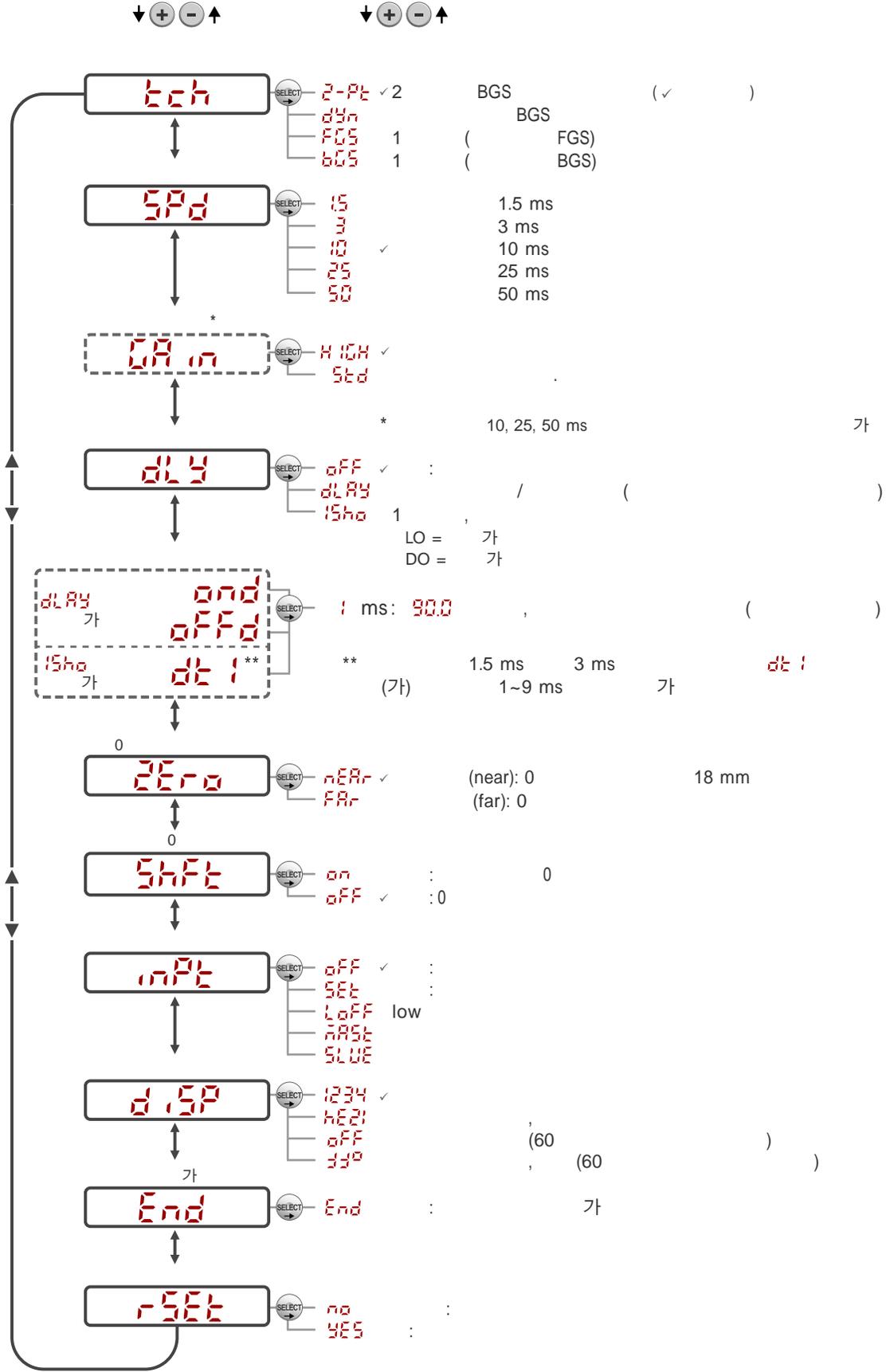
( )

MODE 2

가 . SELECT  
가 . SELECT



가 End ( ) SELECT



Q4X

2

1. TEACH 2

가

2.

3. TEACH

가

4

5

:

4.

5. TEACH

가

가

• 2

2-Pl - 2

가

•

dyn

가

가

• 1

FGS FGS

가

• 1

BGS bGS

가



1.



( )

2.



( )



( )

가

.1



: FGS

가

(FGS

)

( ) / ( )

( )

1. LO/DO 2

2. LO/DO

3. SELECT



: 2

SELECT

LO/DO

(SELECT)

(TEACH)

Loc

(가)

(+)(LO/DO)

(-)(MODE)

Loc (가)



( )



( )

Loc uLoc (가)

가 1, 655 nm  
 (Vcc)  
 10 ~ 30 V dc  
 < 675 mW  
 25 mm (0.98 in) ~ 300 mm (11.81 in)  
 (1 PNP 1 NPN)

: < 5 µA, 30 V dc  
 PNP : < 1.5 V dc, 100 mA  
 NPN : < 1.0 V dc, 100 mA

가 : 0 ~ Vcc  
 Low ( — (sinking) ): Low < 2.0 V, 1 mA  
 (transient)

1:

(mm)	( × )
25	2.6 mm × 1.0 mm
150	2.3 mm × 0.9 mm
300	2.0 mm × 0.8 mm

0.05 mm/°C, 125 mm  
 0.35 mm/°C, 300 mm

2: HIGH ( 5ms 1)

(ms)	(90% , 25 mm )	(90% , 300 mm )
1.5	200	20
3	200	20
10	1000 (500)	100 (50)
25	2500 (1000)	250 (100)
50	5000 (2500)	500 (250)

가 :

- 15 —1.5 ms
- 3 —3 ms
- 10 —10 ms
- 25 —25 ms
- 50 —50 ms

가 < 750 ms

> 5,000 lux

: 1 N·m (9 in·lbs)  
 (Nose) : 20 N·m (177 in·lbs)

5 M12

: 316 L  
 : PMMA

MIL-STD-202G, Method 201A (10 ~ 60 Hz, 0.06 in (1.52 mm) , X, Y, Z 2 ) ,

MIL-STD-202G, Method 213B, Condition I (X, Y, Z 100G 6x , 18 ) ,

IEC IP67 IEC60529  
 IEC IP68 IEC60529  
 IEC IP69K DIN40050-9

: -10 °C ~ +55 °C (+14 °F ~ +131 °F)  
 : 35% ~ 95%

: -25 °C ~ +75 °C (-13 °F ~ +167 °F)

10



2  
 Ind. Cont. Eq.  
 3TJJ

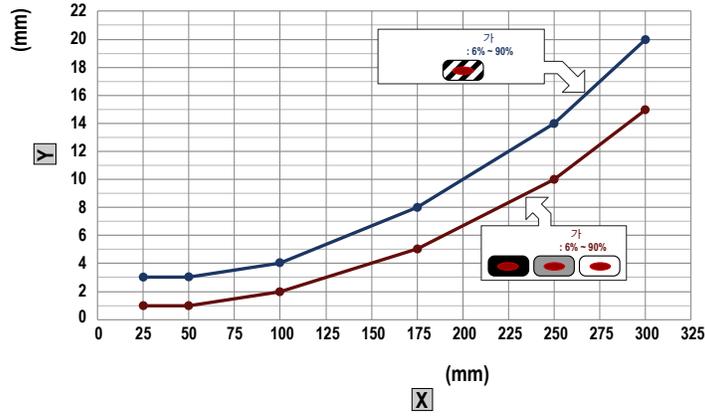
ECOLAB®  
 Banner Engineering

1

- 5ms 10 ms, 25 ms, 50 ms
- 5ms

가

가



10: (90% ~ 6% )

## Banner Engineering Corp.

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Banner

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