

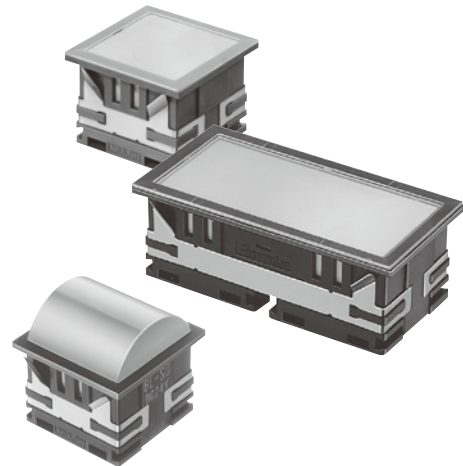
BL LED Indicator

Bright and Various Illumination makes easy planning of multiple design.
Easy Matrix Mounting available.
Dome Cover type (easy to look) provided.

Various illumination (Mono Color, Split-Face, 3-color, Negative) available.

■ FEATURES

- Size : 30mm square type.
- 30 60mm rectangular type.
- Depth behind panel : Only 20mm
- Illumination : Mono-Color, Split-Face, 3-Color (Red, Green, Yellow), Negative
- Dome Cover type (easy to look) available.
- Terminal : Connector Type
Mounting : Snap-in Type
(Matrix mounting is possible to use "joint".)



SPECIFICATIONS

Insulation Resistance	More than 100M Ω at 500V DC
Dielectric Strength	1500V AC RMS between terminals and ground (50/60Hz for 60sec. at normal ambient temperature and humidity)
Reverse Dielectric Strength	150V
Ambient Temperature	10 C~ 40 C
Ambient Humidity	45~80% RH

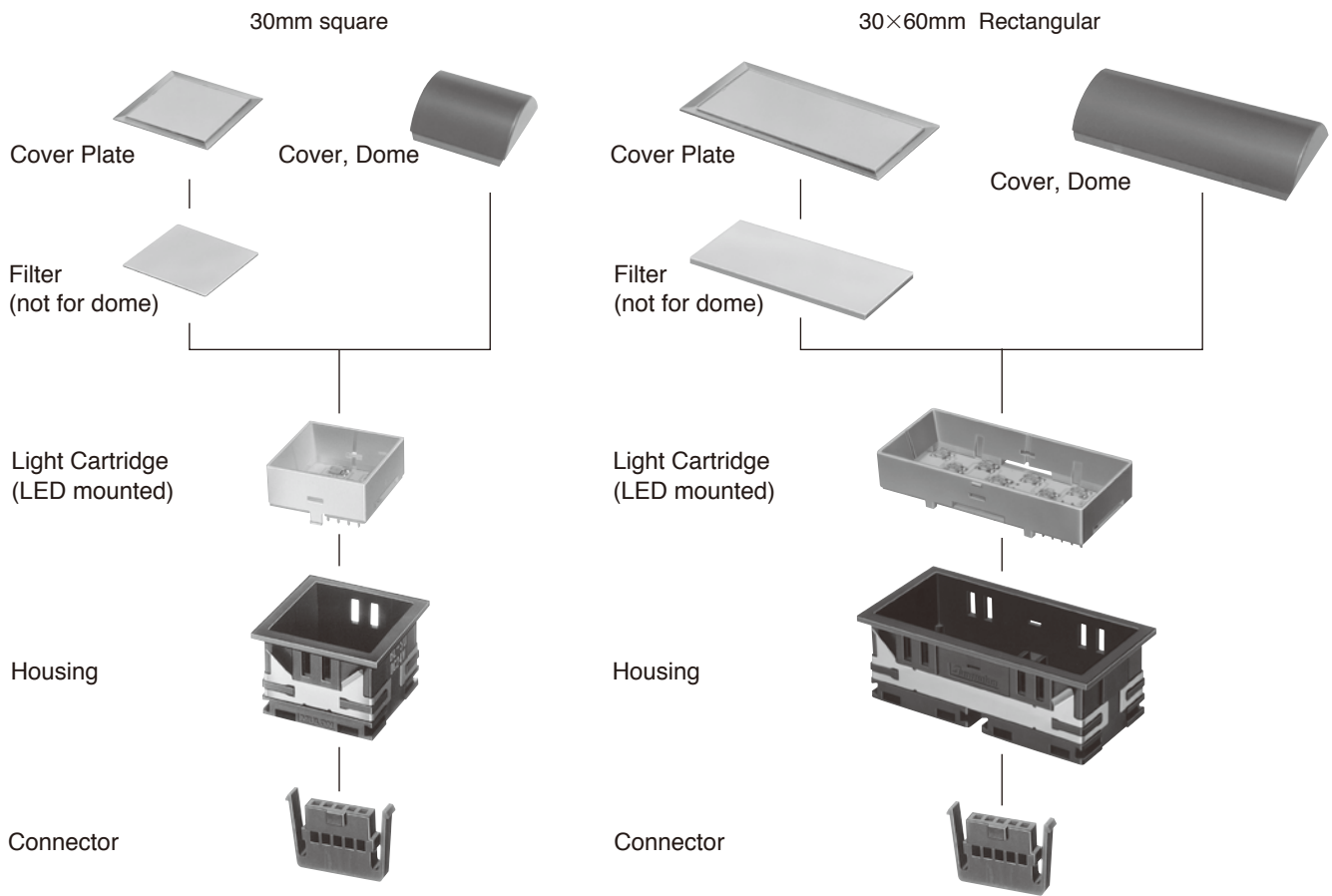
LED DATA

	DC Supply Voltage (V)	Current Rating (mA)						
		Mono-Color		Split-Face		3-Color		
		Red	Green/Yellow	Red	Green/Yellow	Red	Green	Yellow
30 30	DC12 (5%)	26	40	13	20	26	40	40
	DC24 (5%)	13	20	13	20	13	20	20
30 60	DC12 (5%)	52	80	26	40	52	80	80
	DC24 (5%)	26	40	13	20	26	40	40

LED DATA (Super BL LED COLOR)

	DC Supply Voltage (V)	Current Rating (mA)											
		Mono-Color					Split-Face			3-Color			
		Red	Green	Yellow	Super Blue	Super White	Super Green	Red	Green	Yellow	Red	Green	Yellow
30×30	DC12 (\pm 5%)	16	34	20	15	11	11	8	17	10	16	34	37
	DC24 (\pm 5%)	8	17	10	8	6	6	8	17	10	8	17	21
30×60	DC12 (\pm 5%)	31	67	41	31	22	22	16	34	20	31	67	67
	DC24 (\pm 5%)	16	34	20	15	11	11	8	17	10	16	34	38

STRUCTURE

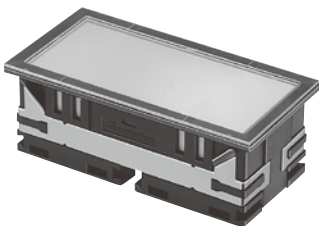
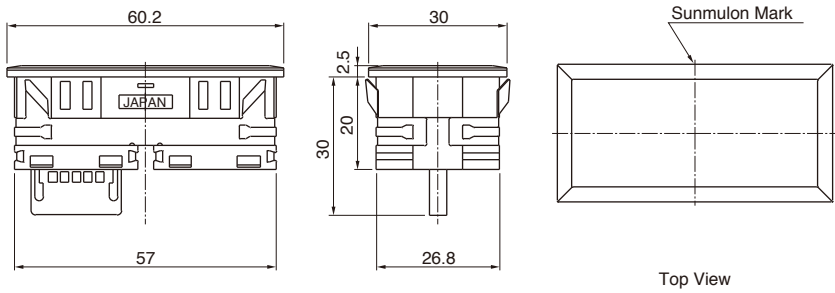
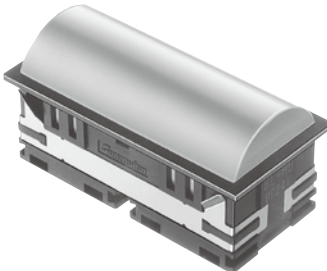
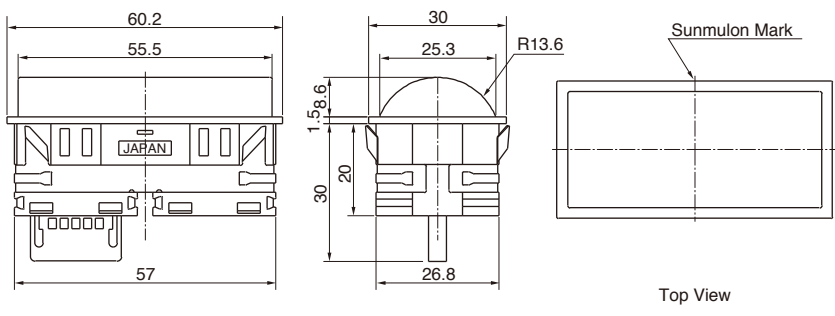


DIMENSIONS


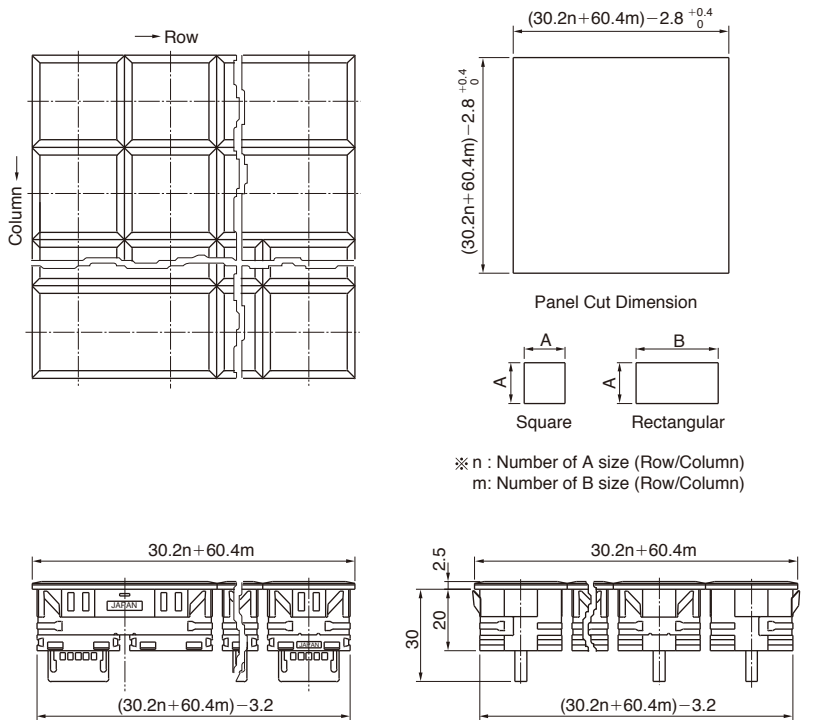
30mm square	Flat type				
	Dome type				

Tolerance : ±0.4mm

DIMENSIONS

<p>30×60mm Rectangular</p>	<p>Flat type</p>		
	<p>Dome type</p>		

Panel Thickness 1mm~4mm

<p>Matrix Mounting (Without Matrix Frame)</p>		
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※ n : Number of A size (Row/Column)
m : Number of B size (Row/Column)

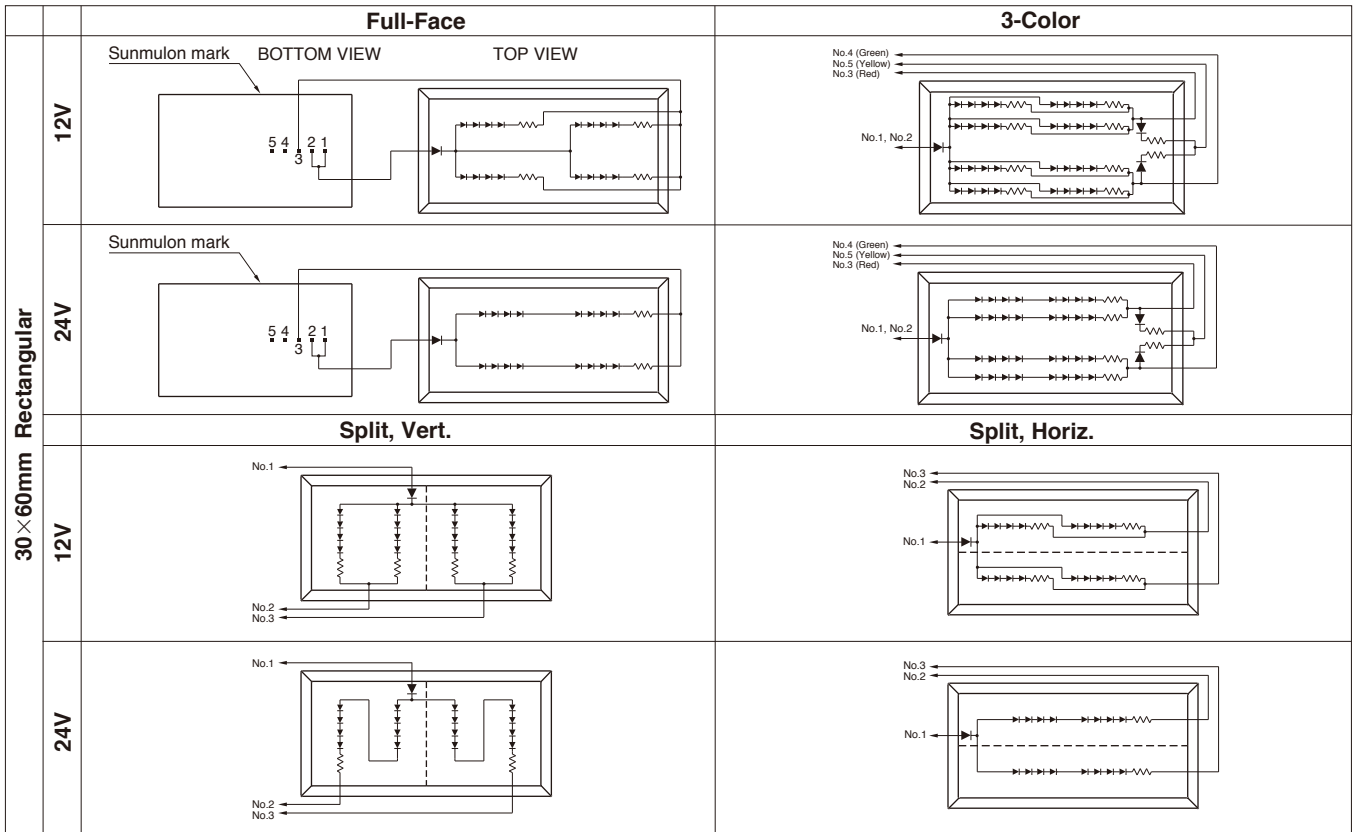
Tolerance : ±0.4mm

INTERNAL CONNECTION ARRANGEMENTS

		Full-Face		3-Color	Split, Horiz.
30mm square	12V	<p>BOTTOM VIEW</p> <p>MULON mark</p> <p>5 4 3 2 1</p> <p>TOP VIEW</p>	<p>BOTTOM VIEW</p> <p>MULON mark</p> <p>5 4 3 2 1</p> <p>TOP VIEW</p>	<p>No.4 (Green) No.5 (Yellow) No.3 (Red)</p> <p>No.1, No.2</p>	<p>No.3 No.2</p> <p>No.1</p>
	24V	<p>BOTTOM VIEW</p> <p>MULON mark</p> <p>5 4 3 2 1</p> <p>TOP VIEW</p>	<p>BOTTOM VIEW</p> <p>MULON mark</p> <p>5 4 3 2 1</p> <p>TOP VIEW</p>	<p>No.4 (Green) No.5 (Yellow) No.3 (Red)</p> <p>No.1, No.2</p>	<p>No.3 No.2</p> <p>No.1</p>

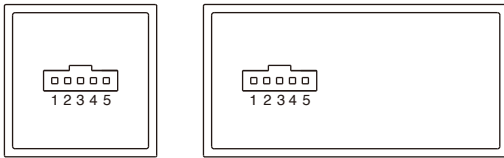
Tolerance : $\pm 0.4\text{mm}$

INTERNAL CONNECTION ARRANGEMENTS

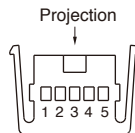


TERMINAL

● TERMINAL LAYOUT



● CONNECTOR



● Suitable wire

Wire size	Diameter
AWG #24-28	1.0-1.5mm

Pin No.	Full-Face	Split, Vert.	Split, Horiz.	3-Color
1	Anode (+)	Anode (+)	Anode (+)	Anode (+)
2	Anode (+)	Cathode (-)	Cathode (-)	Anode (+)
3	Cathode (-)	Cathode (-)	Cathode (-)	Cathode (-) Red
4	/	/	/	Cathode (-) Green
5	/	/	/	Cathode (-) Yellow

Note: Simultaneous lighting is impossible while pin no. 3, 4, 5 for 3-Color Type, also impossible while pin no. 2, 4 and 3, 5 for Split-Face Dual Color Type.

● Super BL LED COLOR

Pin No.	Full-Face		Split	3-Color
	R, G, Y	SB, SW, SG		
1	Anode (+)	Anode (+)	Anode (+)	Anode (+)
2	Anode (+)	Anode (+)	Cathode (-)	Anode (+)
3	Cathode (-)	Cathode (-)	Cathode (-)	Cathode (-) Red
4	/	Cathode (-)	/	Cathode (-) Green
5	/	/	/	Cathode (-) Yellow

Panel Cut Dimensions

Panel thickness : 1~4mm

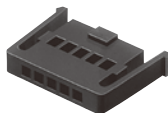
		Panel Layout	Panel Cut Dimensions
30mm square	Serial Mounting		
	Rectangular Vert., Serial Mounting		
	30×60mm Horiz. Serial Mounting		

n : number of indicators

ACCESSORIES

Connector (appended)

Part No. BL-0077



Housing



Contact Pin
Honda Tsushin Kogyo made (HKP-F403)

Joint (Use for Matrix mounting)

Part No. BL-0065

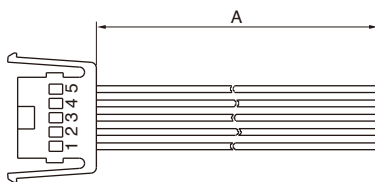


Tolerance : ±0.4mm

Connector (1Housing & 5 Contact Pins) to be appended.

Wire Harness

Wire : UL1061, AWG26



Pin no.	1	2	3	4	5
Color	Red	Green	Yellow	Blue	Grey

A Length	Part No.
50cm	CL-0230
100cm	CL-0231

Contact Pin press Tool



Honda Tsushin Kogyo made (KP-309)

ORDERING CODE I

UNIT

BL — 1 2 1 2

● SHAPE & ILLUMINATION

S0	30mm square, Full-Face	
S2	30mm square, Split, Horiz.	
S3	30mm square, 3-Color	※1)
W0	30×60mm Rect., Full-Face	
W1	30×60mm Rect., Split, Vert.	
W2	30×60mm Rect., Split, Horiz.	
W3	30×60mm Rect., 3-Color	※1)

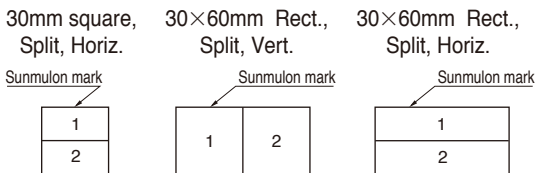
T0	30mm square, Full-Face, Dome	
T3	30mm square, 3-Color, Dome	※4) ※5)
H0	30×60mm Rect., Full-Face, Dome	※4)
H3	30×60mm Rect., 3-Color, Dome	※4) ※5)

● LED COLOR ※3)

7	Red	Full-Face : Put color no. into the frame 1 Split-Face : Put color no. into the frame 1, 2 3-Color : Put color no. 7080 into the frame 1, 2 ※2)
8	Green	
9	Yellow	
X	Without LED	

● NOTES

- ※1) In case of Negative illumination, please select Milk-White filter.
(Black silk printing to be applied on Milk-White filter)
- ※2) Simultaneous lighting is impossible for 3-Color Type.
- ※3) In case of Split-Face, LED and Filter color location should be specified as follow:



- ※4) In case of selecting Dome type, filter is not needed, so please select Without Filter(X)
- ※5) Milk-White color filter or dome cover must be selected for 3-Color type.
- ※6) Snap-spring metal plates come out Left/Right direction for Vertical Mounting, and Top/Bottom direction for Horizontal Mounting, and Top/Bottom direction for Horizontal Mounting, to avoid interfering mutually in case of serial mounting. Therefore, in case of independent use, it does not matter. (select 2 Horizontal ordinary)

MATRIX INDICATOR

BL — X

● COLUMN

01	1
⋮	⋮
10	10

● ROW

01	1
⋮	⋮
10	10

● MOUNTING

1	For Horiz. Mtg.
2	For Vert. Mtg.

● SUPPLY VOLTAGE

2	12V
3	24V
X	Without LED

● TERMINAL

K	With Connector
N	Without Connector

● HOUSING COLOR

K	Black
H	Grey

● FILTER COLOR ※3)

1	Red	Full-Face : Put color no. into the frame 1 Split-Face : Put color no. into the frame 1, 2 3-Color : Put color no. 4 into the frame 1
2	Green	
3	Yellow	
4	Milk-White	
X	Without Filter	

● COVER PLATE

C	Transparent
SK	Semitransparent (for Negative) ※1)

● DOME COVER

R	Red	※	Y	Yellow
G	Green		M	Milk-White

※ "Yellow" color for LED/Filter is actually "Orange Yellow".

According to user's specification, suffix no. will be given.

● MATRIX FRAME

K	Black
H	Gray
X	Without Frame

- In case of Matrix Indicator, please inquiry us how to order.

ORDERING CODE II (Super BL LED COLOR)

UNIT

BL — 1 2 1 2

● SHAPE & ILLUMINATION

S0	30mm square, Full-Face	
S2	30mm square, Split, Horiz.	
S3	30mm square, 3-Color	※1)
W0	30×60mm Rect., Full-Face	
W1	30×60mm Rect., Split, Vert.	
W2	30×60mm Rect., Split, Horiz.	
W3	30×60mm Rect., 3-Color	※1)

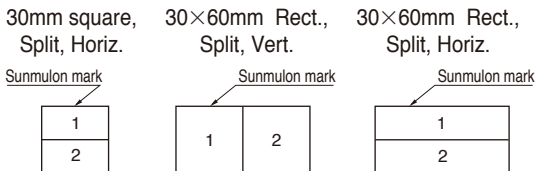
T0	30mm square, Full-Face, Dome	
T3	30mm square, 3-Color, Dome	※4) ※5)
H0	30×60mm Rect., Full-Face, Dome	※4)
H3	30×60mm Rect., 3-Color, Dome	※4) ※5)

● LED COLOR ※3)

70	Red	Full-Face : Put color no. into the frame 1 Split-Face : Put color no. into the frame 1, 2 (7070, 7080, 7090) (8070, 8080, 8090) (9070, 9080, 9090) combination only 3-Color : Put color no. 7080 into the frame 1, 2 ※2)
80	Green	
90	Yellow	
14	Super Blue	
16	Super White	
18	Super Green	
X	Without LED	

● NOTES

- ※1) In case of Negative illumination, please select Milk-White filter.
(Black silk printing to be applied on Milk-White filter)
- ※2) Simultaneous lighting is impossible for 3-Color Type.
- ※3) In case of Split-Face, LED and Filter color location should be specified as follow:



- ※4) In case of selecting Dome type, filter is not needed, so please select Without Filter(X)
- ※5) Milk-White color filter or dome cover must be selected for 3-Color type.
- ※6) Snap-spring metal plates come out Left/Right direction for Vertical Mounting, and Top/Bottom direction for Horizontal Mounting to avoid interfering mutually in case of serial mounting. Therefore, in case of independent use, it does not matter. (select 2 Horizontal ordinary)

MATRIX INDICATOR

BL — ×

● COLUMN

01	1
⋮	⋮
10	10

● ROW

01	1
⋮	⋮
10	10

- In case of Matrix Indicator, please inquiry us how to order.

● MOUNTING

1	For Horiz. Mtg.
2	For Vert. Mtg.

● SUPPLY VOLTAGE

2	12V
3	24V
X	Without LED

● TERMINAL

K	With Connector
N	Without Connector

● HOUSING COLOR

K	Black
H	Grey

● FILTER COLOR ※3)

1	Red	Full-Face : Put color no. into the frame 1 Split-Face : Put color no. into the frame 1, 2 3-Color : Put color no. 4 into the frame 1
2	Green	
3	Yellow	
4	Milk-White	
X	Without Filter	

● COVER PLATE

C	Transparent
SK	Semitransparent (for Negative) ※1)

● DOME COVER

R	Red	※	Y	Yellow
G	Green		M	Milk-White

※ "Yellow" color for LED/Filter is actually "Orange Yellow".

According to user's specification, suffix no. will be given.

● MATRIX FRAME

K	Black
H	Gray
X	Without Frame