AL LED Indicator

AL

Short body Indicator.
Stable, Uniform Illumination.

The pursuit of reflection efficiency realizes unprecedented brightness.

■FEARTURES

Size : 30×70mm rectangular type.

Depth behind panel: 29.5mm

Terminal : Connector type

Mounting : Snap-in type

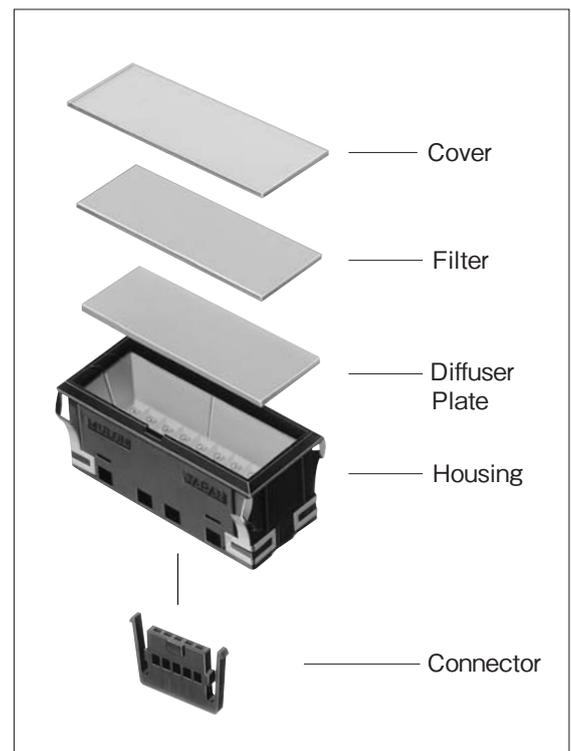Illumination: Mono-Color, Split-Face, Dual-Color, Negative

SPECIFICATIONS

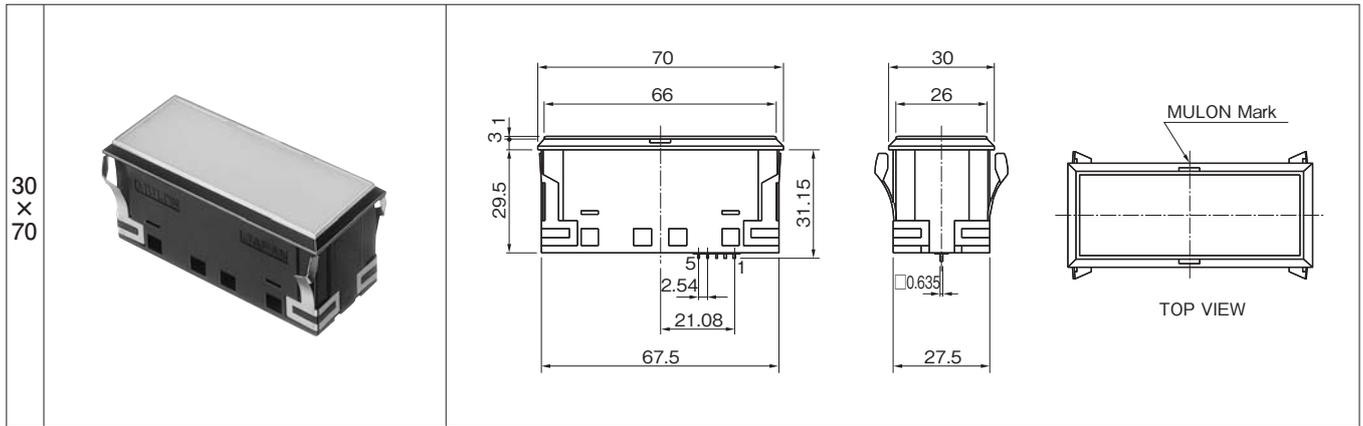| Insulation Resistance	More than 100MΩ at 500V DC
Dielectric Strength	1500V AC RMS between terminals and ground (50/60Hz for 1 minute)
Reverse Dielectric Strength	400V
Ambient Temperature	−10℃～40℃
Ambient Humidity	45～85%RH

LED DATA

DC Supply Voltage		Current Rating（mA）		
		Red	Green	Yellow
DC24V(±5%)	Mono-Color	12	18	18
	Split-Color	6	9	9
	Dual-Color	12	18	18

STRUCTURE

- Cover
- Filter
- Diffuser Plate
- Housing
- Connector

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DIMENSIONS

30×70

dimension markings
70
66
3.1
29.5
31.15
5   1
2.54
21.08
67.5
30
26
□0.635
27.5

MULON Mark

TOP VIEW

INTERNAL CONNECTION ARRAMGEMENTS

		Full-Face	Dual-Color

Full-Face

BOTTOM VIEW   TOP VIEW

MULON Mark

1 2 3 4 5

D

Dual-Color

MULON Mark

1 2 3 4 5

D   D

Split-Face

MULON Mark

1 2 3 4 5

D
D

30×70   24V

●Dual-Color combination

Terminals	LED Color		
1－2	Red	Green	Yellow
3－4	Green	Yellow	Red
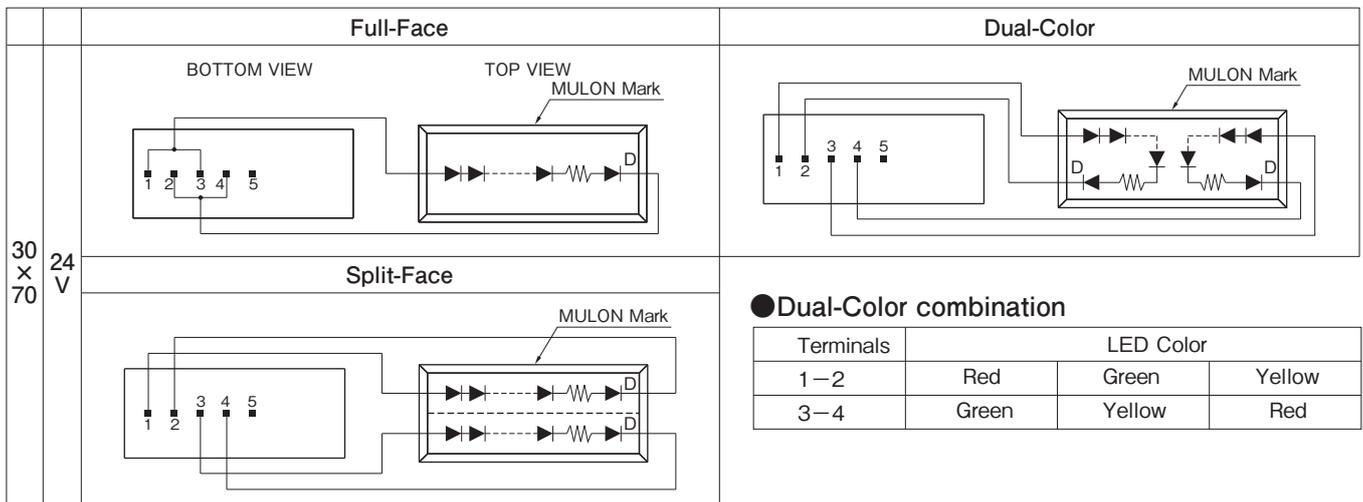
TERMINAL

●TERMINAL LAYOUT

5 4 3 2 1
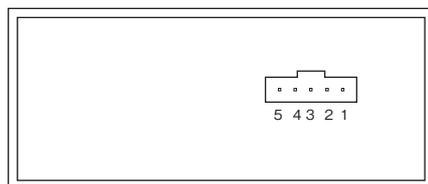
Pin No.	Rectangular（30×70）		
	Full-Face	Dual-Color	Split-Face
1	Anode （＋）	Anode （＋）	Anode （＋）
2	Cathode （－）	Cathode （－）	Cathode （－）
3	Anode （＋）	Anode （＋）	Anode （＋）
4	Cathode （－）	Cathode （－）	Cathode （－）
5			

●CONNECTOR（BL-0077）

Projection
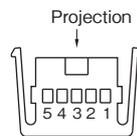
5 4 3 2 1

●Suitable wire

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

●Wire Harness

Wire：UL1061 AWG26

A
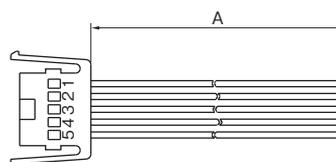
5 4 3 2 1

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

Pin No.	5	4	3	2	1
Color	Red	Green	Yellow	Blue	Gray

Toleramce：±0.4mm

PANEL LAYOUT／PANEL CUT DIMENSIONS

Panel thickness: 1mm～5mm

		Panel Layout	Panel Cut Dimensions
30 × 70	Vertical	70 / 30n	$68^{+0.4}_{-0.2}$ / $28+30(n-1)^{+0.6}_{-0.2}$
	Horizontal	30 / 70n	$28^{+0.4}_{-0.2}$ / $68+70(n-1)^{+0.6}_{-0.2}$

Panel cut dimention should be after panel paintings.

n: number of indicators

ACCESSORIES

CONNECTOR

Part No.	BL-0077

Projection

5 4 3 2 1
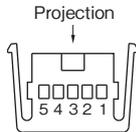
Wire Harness

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

A

5 4 3 2 1
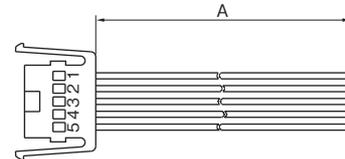
FILTER DIMENSIONS

●Full-Face

63.9 / 23.9 / 1.5

AL-0025
AL-0036

●Spli-Face

63.9 / 11.9 / 1.5
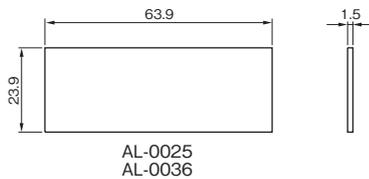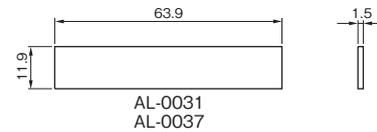
AL-0031
AL-0037

REPLACEMENT PARTS

●FILTER

Item＼Color	Red	Green	Yellow	Clear	Negative Red	Negative Green	Negative Yellow	Negative Clear
Full-Face	AL-0025-R	AL-0025-G	AL-0025-Y	AL-0025-C	AL-0036-R	AL-0036-G	AL-0036-Y	AL-0036-C
Split-Face	AL-0031-R	AL-0031-G	AL-0031-Y	AL-0031-C	AL-0037-R	AL-0037-G	AL-0037-Y	AL-0037-C

●COVER

Clear	Semitransparent (for Negative)
AL-0023-C	AL-0023-SK

●Diffuser Plate

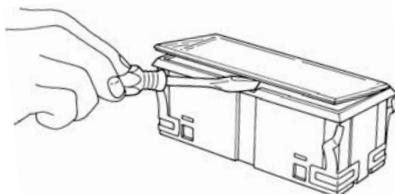| Full-Face	Split-Face
AL-0026	AL-0035

●Divider
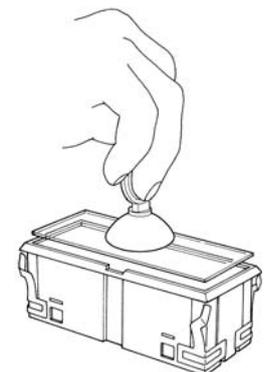
Split-Face
AL-1264

DISASSEMBLY

1. Removing Cover

Insert a flat head screwdriver in the recess in the center and turn it by 90°. Please be careful not to damage the cover.

2. Removing Diffuser Plate and Filter

Put it out straight with the removing tool（SJ-0002-1）.

Tolerance：±0.4mm

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●ILLUMINATION TYPE

W0	Full- Face
W2	Split-Face
W3	Dual-Color

●LED COLOR

70	Red	Full-Face：Put color no. into the frame 1
80	Green	Split-Face：Put color no. into the frame 1, 2
90	Yellow	Dual-Color：Put color no. into the frame 1, 2
X	Without LED	（Combination 7080, 8090, 9070）

●COVER

C	Clear
SK	Semitransparent for Negative
X	Without Cover

●HOUSING

K	Black
H	Gray

●MOUNTING

1	For Horizontal Mtg.
2	For Vertical Mtg.
X	Without Snap spring

●Supply Voltage to LED

3	24V
X	Without LED

●TERMINAL

K	Connector

●FILTER COLOR

1	Red	
2	Green	Full-Face：Put color no. into the frame 1
3	Yellow	Split-Face：Put color no. into the frame 1, 2
9	Clear	Dual-Color：Put 9 into the frame 1
X	Without Filter	

●NOTES

1） In case of Split-Face, LED and FIlter color location should be specified as follow:

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1
2
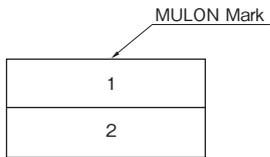
2） Simultaneous lighting is possible for Split-Face and Dual-Color.

3） Please use exclusive connector (BL-0077). When purchasing a wire harness, connector is unnecessary, **please specify 0015 at the end of the model.**

4） In case of specify a cover for Negative, the filter is black silk printed on one side.

5） Snap-spring metal plates come out Left/Right direction for Vertical mounting, and Top/Bottom direction for Horizontal mounting
     to avoid interfering mutualy in case of serial mounting. Therefore, in case of independent use, it does not matter. (select 1 Horizontal ordinary)