



|주| 세기비즈
SEGIBIZ CO., LTD
ELECTRIC TECHNOLOGY

ALL 2025 • • • • •

CATALOGUE

ELECTRIC TECHNOLOGY



www.segibiz.co.kr

2020~2025

- 2025**
 - Developed TB-25PT
 - Acquired CE/NRTL for TB/CB/PB Series
 - Moved to the extended new factory
- 2024**
 - Developed O-type short bar
 - Import of waterproof connectors/quick connectors
- 2023**
 - AL Series – IECEx Explosion Proof Certification
 - TB/AL Series – IK08/IK10 Rating Conformity
 - Developed two bracket types, B3-4045/B3-4090
 - To be selected as a Leading Company of Busan
- 2022**
 - Developed MC-N-02
- 2021**
 - Developed TB-30PT
- 2020**
 - Developed AL-50P-S/Short bar 2p
 - Developed MP, MPL(W)

2012~2019

- 2019**
 - Developed Industrial Socket Box
 - Developed Wire Connector
- 2018**
 - Developed HC Terminal Block/Heat-resisting AL Box
 - Acquired ROHS Certificate
- 2017**
 - Acquired UL for CB/PB/AL Series Block(none)
 - Hanoi, Vietnam SAMSUNG SDI Vander registered
 - Developed Aluminum Profile Box Sloped Type
- 2016**
 - Developed Wire Connector/PVC Connector Box
- 2015**
 - Acquired AL Series Block(none) TUV
- 2014**
 - Signed exclusive contract with METE ENERJI
- 2013**
 - Acquired TUV NRTL for CB/PB Series
 - Signed exclusive contract with WEICON
 - Registered as a supplier of Hyundai Motors, Chennai, India
- 2012**
 - Acquired ATEX Explosion proof for AL without Terminal Series
 - Acquired TUV NRTL for TB Series

2002~2011

- 2011**
 - Developed AL-1212-08/AL-20PT
- 2010**
 - Selected as an excellent example of management consulting for small & medium companies
 - Moved to new extended building
 - Established the Shopping mall Brand [BIZ Market]
 - Obtained INNO-BIZ Certificate
 - Established company-affiliated R&D center
- 2009**
 - Obtained Venture Enterprise Certification
 - Acquired TUV Mark
 - Renamed SEGIBIZ CO., LTD
- 2006**
 - Founded SEGI-BIZ CO., LTD.
 - First export of [CB-2201] to Toyota Motors
 - Developed AL-30P
- 2005**
 - Received citation from the Director of Small & Medium Business Administration
 - Obtained ISO 9001 Certification of International Quality Management System
- 2003**
 - Developed PIN BOX TB-15P / TB-20P
- 2002**
 - Moved to 128-67, Gamjeon 1(ii)-dong, Busan

1991~1999

- 1999**
 - Developed PIN BOX TB-6PT/10P
- 1998**
 - Developed PIN BOX 4P/6P
 - Registered design patent and utility model
- 1993**
 - Moved to #7-133, Busan Industrial Distribution Arcade, Gamjeon-dong, Sasang-gu, Busan
- 1991**
 - Founded Segi Electronic F.A. in Yeonji-dong, jingu, Busan

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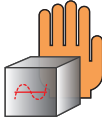
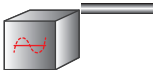
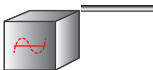
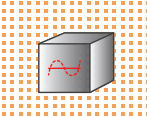
Protective Structure in regard to IP Dust Proof And Water Proof (IEC Regulation IEC 529)

I P 6 5

FIRST NUMBER
Protection against solids

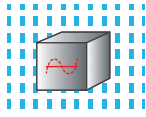
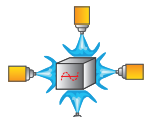
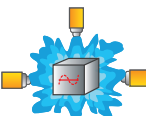
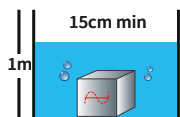
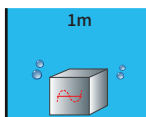
SECOND NUMBER
Protection against liquids

Solids

- | | | |
|---|---|--|
| 0 |  | No protection |
| 1 |  | Protected from solids 50mm or bigger (hand touch) |
| 2 |  | Protected from solids 12mm or bigger (finger size) |
| 3 |  | Protected from solids 2.4mm or bigger (kit, wire size) |
| 4 |  | Protected from solids 1mm or bigger (kit, wire size) |
| 5 |  | Protected from dust |
| 6 |  | Fully protected from dust |

IP65

Liquids

- | | | |
|---|--|---|
| 0 |  | No protection |
| 1 |  | Protected from vertical waterdrops |
| 2 |  | Protected from 15 degree incoming waterdrops |
| 3 |  | Protected from spray up to 60 degrees |
| 4 |  | Protected from spray in all directions |
| 5 |  | Protected from low pressure water spray in all directions |
| 6 |  | Protected from high pressure water spray in all directions. |
| 7 |  | Protected from 15cm~1m of immersion |
| 8 |  | Protected from water pressure during extended immersion |

Aluminum Box

Nomenclature

SG - **AL** - **6171** - **48**

① ② ③

① Product name
Aluminum Box

② Product size (mm)
Width x length

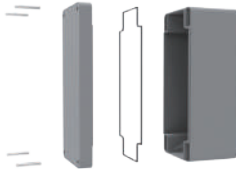
③ Product height
Height



Feature

UL approved product.

Packaging with polyurethane materials using a forming machine provides excellent waterproof and dustproof performance.



Volts covers featuring polyurethane packaging include a base unit. Mounting plates are available for separate purchase. (Aluminum coating / thickness 1.6T)

*No mounting plate for SG-AL-6171-48 / 7093-52 models

Product Specifications

Color: Gray

Tolerance: $\pm 1\text{mm}$

Thickness: 3.5T ~ 4T

Operating temperature: $-20 \sim 180^{\circ}\text{C}$

Protection rating: IP67 / IK10

Material: Aluminum [ALDC 12.1]

Certificates



RoHS

※ The UL model is custom-made to order.

Description

Aluminum boxes are basic junction boxes made from aluminum casting. They are mainly used in industrial machinery, robotics, welding machines, automobiles, petrochemical plant facilities, and oil and gas supply facilities. Aluminum boxes are easy to install and come in various sizes tailored to customer needs, providing practical and user-friendly solutions. They are also ROHS-certified and UL-certified, ensuring safe use.

Model	Size(mm)	Weight(g)
SG-AL-6171-48	61 X 71 X 48	220
SG-AL-7093-52	70 X 93 X 52	249
SG-AL-1270-52	70 X 128 X 52	360
SG-AL-1111-52	110 X 110 X 52	398
SG-AL-1770-55	70 X 172 X 55	435
SG-AL-1214-62	125 X 145 X 62	566
SG-AL-8023-08	80 X 235 X 80	844
SG-AL-1219-08	125 X 190 X 80	944
SG-AL-1010-08	100 X 100 X 80	580

Model	Size(mm)	Weight(g)
SG-AL-1212-08	120 X 120 X 80	690
SG-AL-1222-09	125 X 223 X 90	1314
SG-AL-1616-09	160 X 160 X 90	1205
SG-AL-1621-10	160 X 210 X 100	1623
SG-AL-1626-09	161 X 263 X 90	1699
SG-AL-2023-11	200 X 230 X 110	2500
SG-AL-2333-12	230 X 330 X 120	3997
SG-AL-2333-18	230 X 330 X 180	5237

Ex Aluminum Box

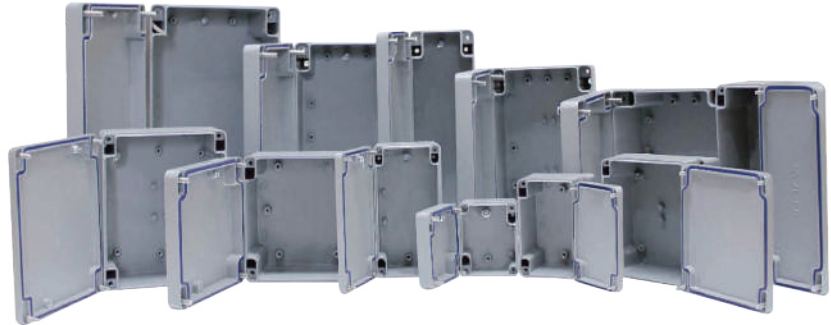
Nomenclature

SG - **EX** **617148**

① ②

① **Product name**
Ex Aluminum Box

② **Product size (mm)**
Width x length x Height



IECEx marking

Ex eb IIC Gb
Ex tb IIIC Db

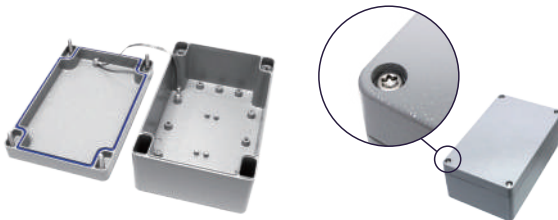
ATEX marking



II 2G Ex eb IIC Gb
II 2D Ex tb IIIC Db

Feature

IECEx explosion proof approved model
Ground terminal connection.(3 Earthing ; 2 inside, 1 outside)
Use star L wrench, Waterproof, Dustproof.
Mounting plates are available separately.



Product Specifications

Product Specifications
Color: Gray
Tolerance: $\pm 1\text{mm}$
Thickness: 3.5T ~ 4T
Operating temperature: $-20 \sim 80^{\circ}\text{C}$
Protection rating: IP66
Material: Aluminum [ALDC 12.1]

Certificates



RoHS

Description

IECEx aluminum explosion-proof boxes are IECEx-certified and are used for various applications across industries, including factory warehouses. They have an IP66 rating, providing protection against dust and high-pressure water jets from all directions. Available in 15 different sizes, they can be utilized in a wide range of environments where explosion-proof performance is required.

Model	Size(mm)	Weight
SG-EX617148	61 X 71 X 48	220
SG-EX709352	70 X 93 X 52	249
SG-EX127052	70 X 128 X 52	360
SG-EX111152	110 X 110 X 52	398
SG-EX177055	70 X 172 X 55	435
SG-EX121462	125 X 145 X 62	566
SG-EX802308	80 X 235 X 80	844
SG-EX121908	125 X 190 X 80	944

Model	Size(mm)	Weight
SG-EX101008	100 X 100 X 80	580
SG-EX121208	120 X 120 X 80	690
SG-EX122209	125 X 223 X 90	1314
SG-EX161609	160 X 160 X 90	1205
SG-EX162110	160 X 210 X 100	1623
SG-EX162609	161 X 263 X 90	1699
SG-EX233312	230 X 330 X 120	3997

Aluminum Terminal Box

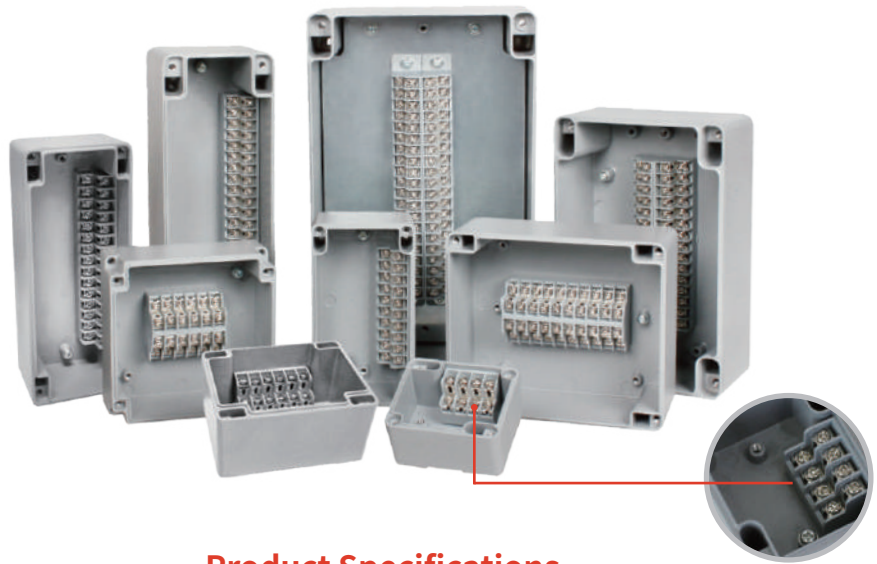
Nomenclature

SG - **AL** - **4P**

① ②

① **Product name**
Aluminum Terminal Box

② **Number of pins**
4 - 50 Pin



Feature

This is an all-in-one type terminal available in various sizes and terminal types. Its polyurethane foaming provides effective waterproofing and dustproofing, offering high productivity and efficiency.

Electrical Specifications

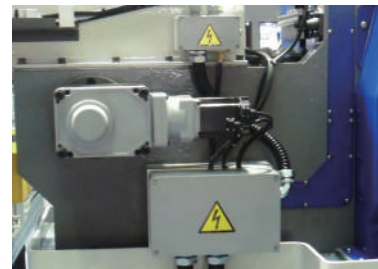
Allowable current: 10A
Rated frequency: 50Hz
Rated input voltage: AC250 Volts
Withstand voltage: 1880V / 1 minute

Certificates



Product Specifications

Color: Gray
Tolerance: $\pm 1\text{mm}$
Thickness: 3.5T ~ 4T
Operating temperature: -20 ~ 70°C
Protection rating: IP67 / IK10
Material: Aluminum [ALDC 12.1], Terminal Block [ABS V-0]



Description

The aluminum terminal box is an integrated junction box with terminals housed inside. Our aluminum terminals are made from high-quality aluminum, rated at 10 Amp and 250V. The exterior of the box is painted gray. Like our other aluminum boxes, these terminal boxes are packed with polyurethane gasket foam, ensuring excellent waterproof and dustproof performance. They are widely used in industrial machinery, robotics, commercial wiring, and low-voltage control systems.

Model	Size(mm)	Weight(g)
SG - AL - 4P	61 X 71 X 48	239
SG - AL - 6P	70 X 93 X 52	283
SG - AL - 10P	70 X 128 X 52	374
SG - AL - 12P	110 X 110 X 52	482
SG - AL - 15P	70 X 172 X 55	529
SG - AL - 20P	125 X 145 X 62	669

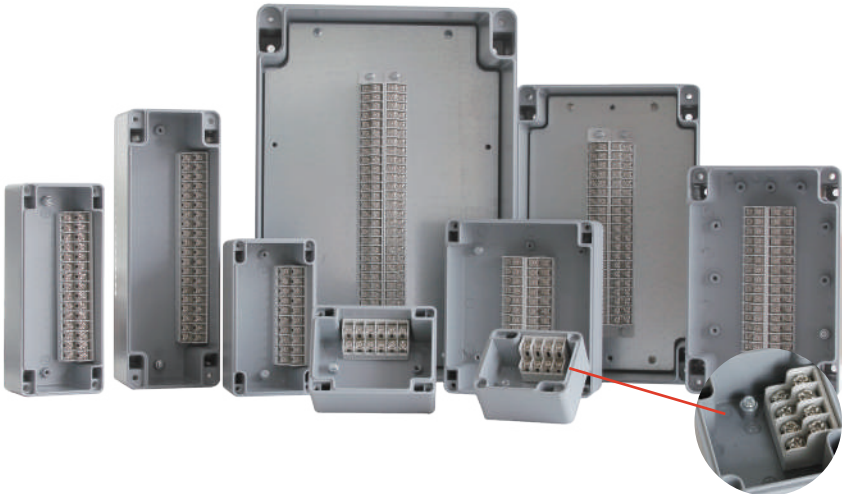
Model	Size(mm)	Weight(g)
SG - AL - 20PT	80 X 235 X 80	957
SG - AL - 30P	125 X 190 X 80	1205
SG - AL - 40P	161 X 263 X 90	1822
SG - AL - 50P -S	161 X 263 X 90	2447
SG - AL - 50P -L	230 X 330 X 120	5237

Heat-resisting Aluminum Terminal Box

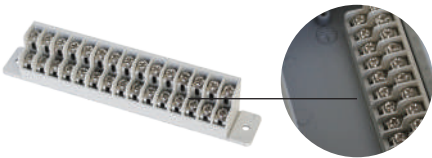
Nomenclature

SG - **HL** - **4P**
 ① ②

- ① Product name
Heat-resisting Aluminum Terminal Box
- ② Number of pins
4 - 50 Pin



Feature



Use of heat-resistant terminals that can be used in temperatures up to 400°C.
 Able to work in hotter environments than the AL series.

Product Specifications

Color: Box - Gray / Terminal Block - Ivory
 Tolerance: $\pm 1\text{mm}$
 Thickness: 3.5T ~ 4T
 Operating temperature: -20 ~ 180°C
 Protection rating: IP67 / IK10
 Material: Aluminum [ALDC 12.1], Terminal Block [MPPPO]

Electrical Specifications

Allowable current: 10A
 Rated frequency: 50Hz
 Rated input voltage: AC 250 Volts
 Withstand voltage: 1880V / 1minute

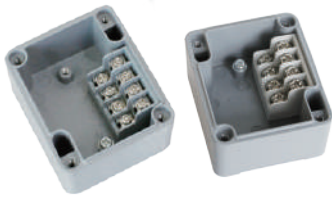
Certificates

RoHS

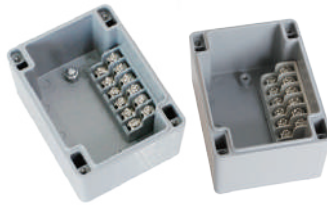
Description

The HL series, heat-resistant aluminum terminal box, features a heat-resistant terminal stand in a durable aluminum casting enclosure. It is designed to withstand higher ambient temperatures, offering the same standard rating, size, and excellent waterproof and dustproof performance as SEGIBIZ's aluminum terminal boxes. This makes it ideal for industrial facilities requiring heat resistance.

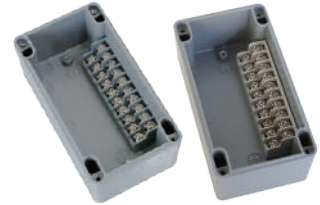
Model	Size(mm)	Weight(g)	Model	Size(mm)	Weight(g)
SG-HL-4P	61 X 71 X 48	239	SG-HL-20PT	80 X 235 X 80	957
SG-HL-6P	70 X 93 X 52	283	SG-HL-30P	125 X 190 X 80	1205
SG-HL-10P	70 X 128 X 52	374	SG-HL-40P	161 X 263 X 90	1822
SG-HL-12P	110 X 110 X 52	482	SG-HL-50P -S	161 X 263 X 90	2447
SG-HL-15P	70 X 172 X 55	529	SG-HL-50P -L	230 X 330 X 120	5237
SG-HL-20P	125 X 145 X 62	669			

**SG - AL / HL - 4P**

- Size(mm) : 61 X 71 X 48
- Weight : 239g
- Allowable current : 10A

**SG - AL / HL - 6P**

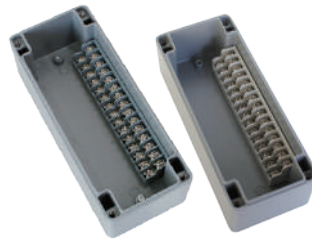
- Size(mm) : 70 X 93 X 52
- Weight : 283g
- Allowable current : 10A

**SG - AL / HL - 10P**

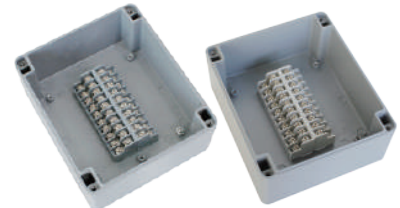
- Size(mm) : 70 X 128 X 52
- Weight : 374g
- Allowable current : 10A

**SG - AL / HL - 12P**

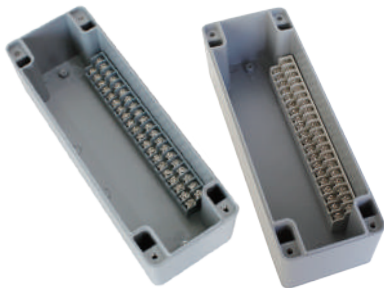
- Size(mm) : 110 X 110 X 52
- Weight : 482g
- Allowable current : 10A

**SG - AL / HL - 15P**

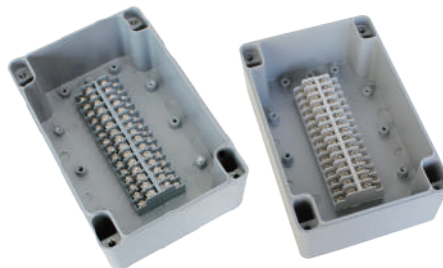
- Size(mm) : 70 X 172 X 55
- Weight : 529g
- Allowable current : 10A

**SG - AL / HL - 20P**

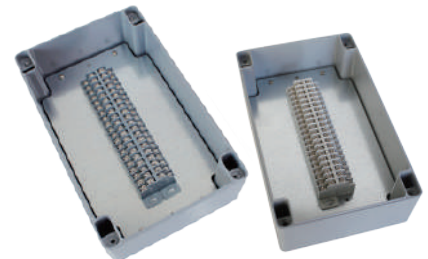
- Size(mm) : 125 X 145 X 62
- Weight : 669g
- Allowable current : 10A

**SG - AL / HL - 20PT**

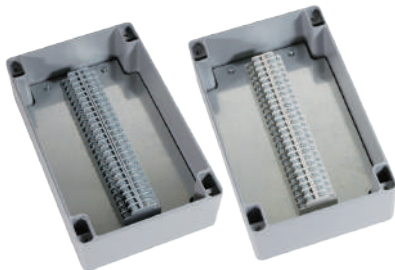
- Size(mm) : 80 X 235 X 80
- Weight : 957g
- Allowable current : 10A

**SG - AL / HL - 30P**

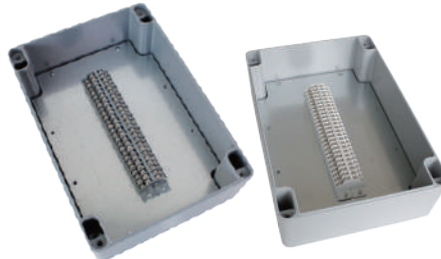
- Size(mm) : 125 X 190 X 80
- Weight : 1205g
- Allowable current : 10A

**SG - AL / HL - 40P**

- Size(mm) : 161 X 263 X 90
- Weight : 1822g
- Allowable current : 10A

**SG - AL / HL - 50P - S**

- Size(mm) : 161 X 263 X 90
- Weight : 2447g
- Allowable current : 10A

**SG - AL / HL - 50P - L**

- Size(mm) : 230 X 330 X 120
- Weight : 5237g
- Allowable current : 10A

MEMO

Aluminum Push Button Box

Nomenclature

SG - **CB** - **22** **01**

① ② ③

① Product name
Aluminum Control Box

② Hole size
No Hole / Ø22 / Ø25 / Ø30

③ Number of holes
1 / 2 / 3 / 4 holes



Feature

UL approved product.

The aluminum push button box has a hole (Ø22 / Ø25 / Ø30) in the cover, enabling the switch to be installed without a separate process.

Product Specifications

Color: Base – Black / Cover – White

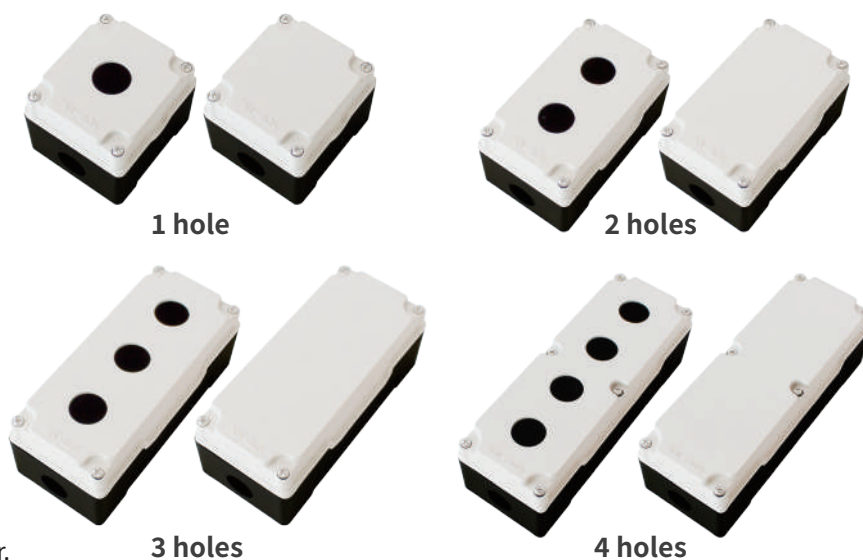
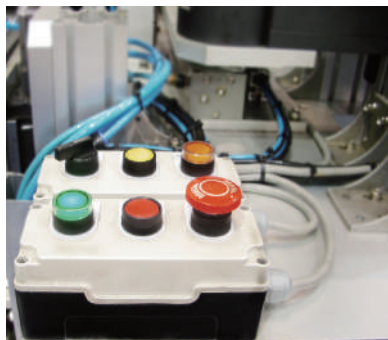
Tolerance: $\pm 1\text{mm}$

Operating temperature: $-20 \sim 180^{\circ}\text{C}$

Hole size: 22mm / 25mm / 30mm

Material: Aluminum [ALDC 12.1]

Example of use



Certificates



RoHS

※ The UL model is custom-made to order.

Hole	Ø	Model	Size(mm)	Weight(g)	Hole	Ø	Model	Size(mm)	Weight(g)
1 hole	No Hole	SG-CB-0001	80 X 90 X 70	385	3 holes	No Hole	SG-CB-0003	80 X 180 X 70	561
	Ø22	SG-CB-2201				Ø22	SG-CB-2203		
	Ø25	SG-CB-2501				Ø25	SG-CB-2503		
	Ø30	SG-CB-3001				Ø30	SG-CB-3003		
2 holes	No Hole	SG-CB-0002	80 X 135 X 70	481	4 holes	No Hole	SG-CB-0004	80 X 220 X 70	686
	Ø22	SG-CB-2202				Ø22	SG-CB-2204		
	Ø25	SG-CB-2502				Ø25	SG-CB-2504		
	Ø30	SG-CB-3002				Ø30	SG-CB-3004		

Plastic Terminal Box

Nomenclature

SG - **TB** - **4** **P** **G**

① ② ③ ④

① **Product name**
Plastic Terminal Box

② **Number of pins**
4 - 50 Pin

③ **Allowable current**
P, PT : 10A / P15 : 15A

④ **Color**
G : Gray / I : Ivory
GC : Gray with transparent cover
IC : Ivory with transparent cover



Feature

The Plastic Terminal Boxes are available in two colors: gray and ivory. Cover options include gray, ivory, and transparent types. With polyurethane packing, they deliver excellent waterproof and dustproof performance. Made from ABS material, these terminal-integrated boxes are offered in a range of custom sizes to meet user needs.

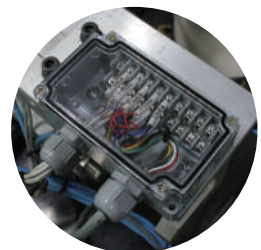
Product Specifications

Color: Gray, Ivory, Transparent cover
Tolerance: $\pm 1\text{mm}$
Operating temperature: $-20 \sim 70^{\circ}\text{C}$
Protection rating: IP65 / IK08 / IP2X (TB-4P, 6P Only)
Material: ABS V-0 / Transparent cover [PC]
Mounting hole size: 0.17 in

Electrical Specifications

Allowable current: 10A / 15A
Rated frequency: 50Hz
Rated input voltage: AC250 Volts
Withstand voltage: 1880V / 1minute

Certificates



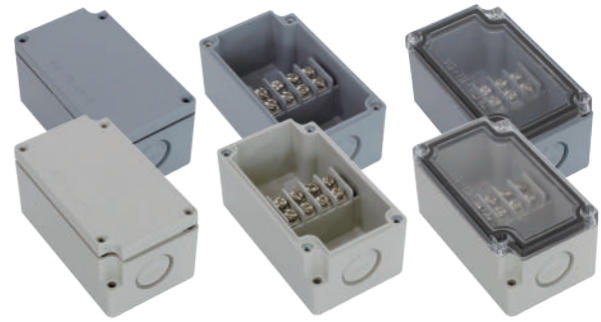
Description

Plastic terminal boxes use ABS and are suitable for sensors, limits S/W, V/V BOX and various kinds of intermediate terminal boxes. Assembling existing prefabricated terminals and boxes is not difficult; productivity is maximized with all-in-one production, which saves resources so that they can be used more practically and safely. It is used in a range of fields, including industrial machinery, robots, commercial wiring, and low voltage control systems.

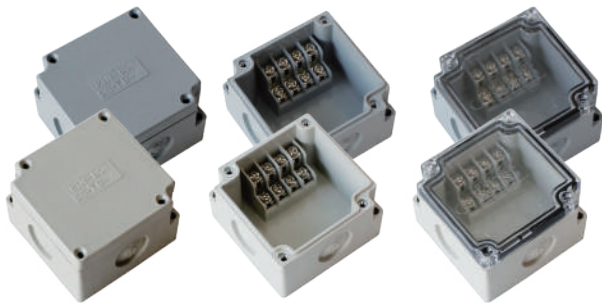
Model	Size(mm)	Weight(g)	Model	Size(mm)	Weight(g)
SG-TB-4P	50 X 85 X 40	80	SG-TB-15PT	75 X 170 X 55	290
SG-TB-4P15	52 X 90 X 45	94	SG-TB-20P15	150 X 160 X 65	479
SG-TB-4PT	65 X 65 X 45	99	SG-TB-20PT	80 X 235 X 56	440
SG-TB-6P	55 X 85 X 40	88	SG-TB-25PT	90 X 275 X 70	579
SG-TB-6P15	65 X 90 X 45	135	SG-TB-30P	125 X 190 X 65	527
SG-TB-6PT	65 X 80 X 45	115	SG-TB-30PT	125 X 190 X 65	527
SG-TB-10P15	90 X 100 X 45	183	SG-TB-40P	160 X 260 X 90	1421
SG-TB-10PT	65 X 110 X 45	156	SG-TB-50P	160 X 260 X 90	1522
SG-TB-15P15	100 X 200 X 65	423			

**SG-TB-4P****10A**

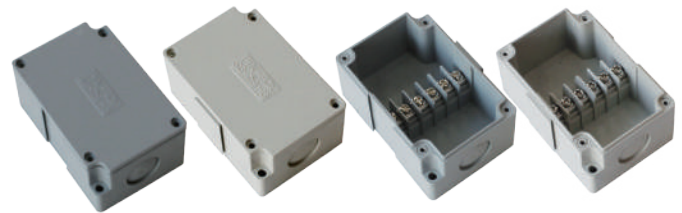
- Size(mm) : 50 X 85 X 40
- Weight : 80g
- Color : Gray, Ivory

**SG-TB-4P15****15A**

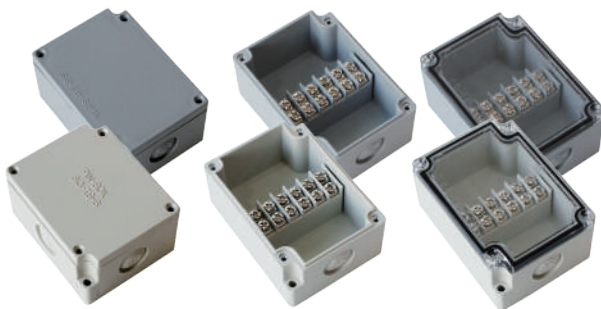
- Size(mm) : 52 X 90 X 45
- Weight : 94g
- Color : Gray, Ivory, Transparent cover

**SG-TB-4PT****10A**

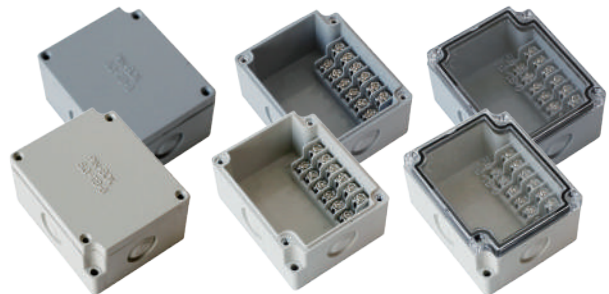
- Size(mm) : 65 X 65 X 45
- Weight : 99g
- Color : Gray, Ivory, Transparent cover

**SG-TB-6P****10A**

- Size(mm) : 55 X 85 X 40
- Weight : 88g
- Color : Gray, Ivory

**SG-TB-6P15****15A**

- Size(mm) : 65 X 90 X 45
- Weight : 135g
- Color : Gray, Ivory, Transparent cover

**SG-TB-6PT****10A**

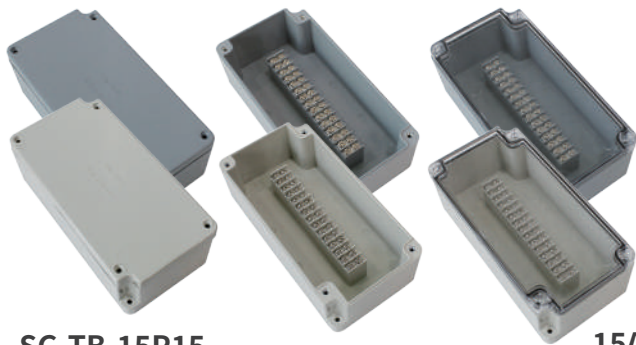
- Size(mm) : 65 X 80 X 45
- Weight : 115g
- Color : Gray, Ivory, Transparent cover

**SG-TB-10P15****15A**

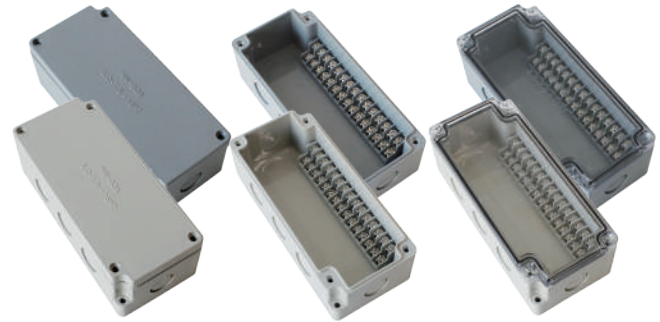
- Size(mm) : 90 X 100 X 45
- Weight : 183g
- Color : Gray, Ivory, Transparent cover

**SG-TB-10PT****10A**

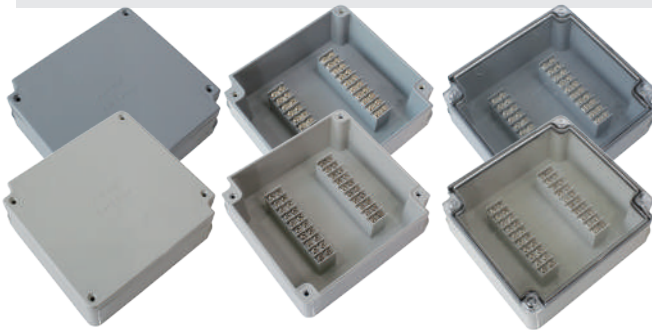
- Size(mm) : 65 X 110 X 45
- Weight : 156g
- Color : Gray, Ivory, Transparent cover

**SG-TB-15P15****15A**

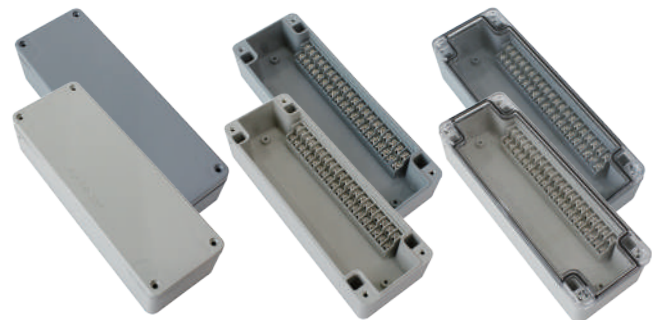
- Size(mm) : 100 X 200 X 65
- Weight : 423g
- Color : Gray, Ivory, Transparent cover

**SG-TB-15PT****10A**

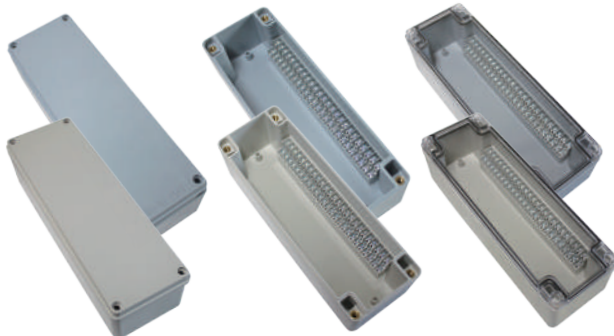
- Size(mm) : 75 X 170 X 55
- Weight : 290g
- Color : Gray, Ivory, Transparent cover

**SG-TB-20P15****15A**

- Size(mm) : 150 X 160 X 65
- Weight : 479g
- Color : Gray, Ivory, Transparent cover

**SG-TB-20PT****10A**

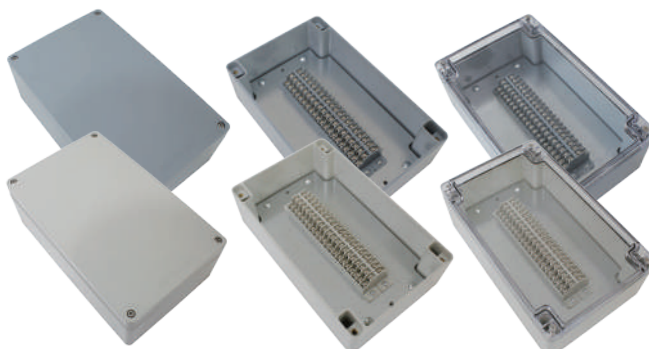
- Size(mm) : 80 X 235 X 56
- Weight : 440g
- Color : Gray, Ivory, Transparent cover

**SG-TB-25PT****10A**

- Size(mm) : 90 X 275 X 70
- Weight : 579g
- Color : Gray, Ivory, Transparent cover

**SG-TB-30P****SG-TB-30PT****10A**

- Size(mm) : 125 X 190 X 65
- Weight : 527g
- Color : Gray, Ivory, Transparent cover

**SG-TB-40P****10A**

- Size(mm) : 160 X 260 X 90
- Weight : 1421g
- Color : Gray, Ivory, Transparent cover

**SG-TB-50P****10A**

- Size(mm) : 160 X 260 X 90
- Weight : 1522g
- Color : Gray, Ivory, Transparent cover

Plastic Junction Box

RoHS

Nomenclature

SG - JB - 802305

①

②

① Product name
Plastic Junction Box

② Product size
Width x length x height



Product Specifications

Color: Gray / Ivory / Transparent cover
Tolerance: $\pm 1\text{mm}$
Operating temperature: $-20 \sim 70^{\circ}\text{C}$
Protection rating: IP65
Material: ABS V-0 / Transparent cover [PC]

Model	Size(mm)	중량(g)
SG-JB-802305	80 X 235 X 56	300
SG-JB-902707	90 X 275 X 70	290
SG-JB-121906	125 X 190 X 65	370
SG-JB-162609	160 X 260 X 90	750

Plastic Push Button Box

Nomenclature

SG - PB - 22 01 (70) Y

①

②

③

④

⑤

① Product name
Plastic Push Button Box

② Hole size
 $\varnothing 22 / \varnothing 25 / \varnothing 30$

④ Product height
55mm / 70mm

③ Number of holes
1 / 2 / 3 / 4 Holes

⑤ Cover color
Red, Yellow, White



Feature

UL approved product.
The plastic push button box has a hole ($\varnothing 22 / \varnothing 25 / \varnothing 30$) in the cover, enabling the switch to be installed without a separate process.

Description

The plastic push button box is made in three colors: red, yellow, and white. They are used especially often in emergency stop switches, and are safer to use with bright, vivid colors when they are used as emergency switches. This product is designed to be durable and easy to install using PC materials.

Product Specifications

Color: Black (Base) / Red, Yellow, White (Cover)
Tolerance: $\pm 1\text{mm}$
Operating temperature: $-20 \sim 110^{\circ}\text{C}$
Material: PC

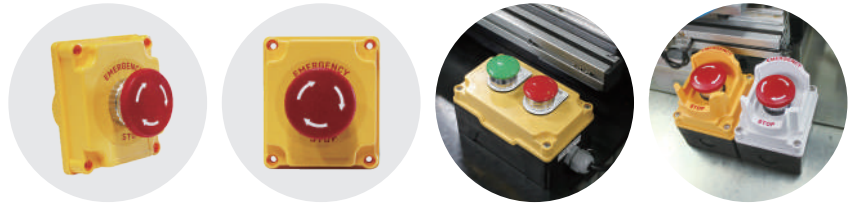


Certificates



※ The UL model is custom-made to order.

Example of use



※ There are only 1 hole and 2 holes in the mini type.

Mini 1 hole



- Size(mm) : 51 X 60 X 45
- Hole size : Ø12, Ø16
- Cover color : White, Yellow
- Weight : 139g

Mini 2 holes



- Size(mm) : 50 X 95 X 45
- Hole size : Ø12, Ø16
- Cover color : White, Yellow
- Weight : 157g

1 hole



- Size(mm) : 80 X 90 X 55 / 80 X 90 X 70
- Hole size : No Hole, Ø22, Ø25, Ø30
- Weight : 178g
- Cover color : Red, White, Yellow

2 holes



- Size(mm) : 80 X 135 X 55 / 80 X 135 X 70
- Hole size : No Hole, Ø22, Ø25, Ø30
- Weight : 231g
- Cover color : Red, White, Yellow

3 holes



- Size(mm) : 80 X 180 X 55 / 80 X 180 X 70
- Hole size : Ø22, Ø25, Ø30
- Weight : 253g
- Cover color : Red, White, Yellow

4 holes



- Size(mm) : 80 X 220 X 55 / 80 X 220 X 70
- Hole size : Ø22, Ø25, Ø30
- Weight : 303g
- Cover color : Red, White, Yellow

Hole	Ø	Model	Size(mm)	Weight	Hole	Ø	Model	Size(mm)	Weight
MINI 1 hole	Ø12 Ø16	SG-PB-1201 SG-PB-1601	51 X 60 X 45	139g	MINI 2 holes	Ø12 Ø16	SG-PB-1202 SG-PB-1602	50 X 95 X 45	157g
1 hole	No Hole	SG-PB-0001	80 X 90 X 55 80 X 90 X 70	178g	3 holes	Ø22	SG-PB-2203	80 X 180 X 55 80 X 180 X 70	253g
	Ø22	SG-PB-2201				Ø25	SG-PB-2503		
	Ø25	SG-PB-2501				Ø30	SG-PB-3003		
	Ø30	SG-PB-3001							
2 holes	No Hole	SG-PB-0002	80 X 135 X 55 80 X 135 X 70	231g	4 holes	Ø22	SG-PB-2204	80 X 220 X 55 80 X 220 X 70	303g
	Ø22	SG-PB-2202				Ø25	SG-PB-2504		
	Ø25	SG-PB-2502				Ø30	SG-PB-3004		
	Ø30	SG-PB-3002							

Aluminum Profile Box

Nomenclature

SG - MB - 100 A

① ② ③

- ① Product name
Multi Box
- ② Product length
60 - 3800mm
- ③ Product type
M / MA / A / B / C / D / E

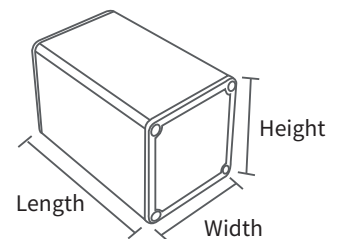


Feature

Made of aluminum profiles, it is light and durable. It comes in a total 7 different types, and can be customized based on customer needs.

Product Specifications

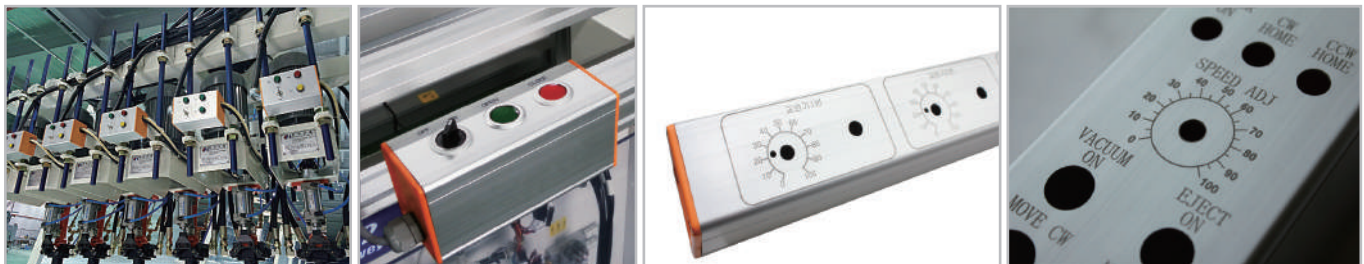
Color: Main body - Silver (anodizing) /
Side plate - Orange
Tolerance: $\pm 1\text{mm}$
Operating temperature: $-20 \sim 70^{\circ}\text{C}$
Material: Aluminum profile /
Side plate [ABS V-0]



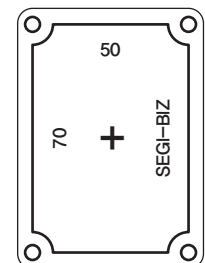
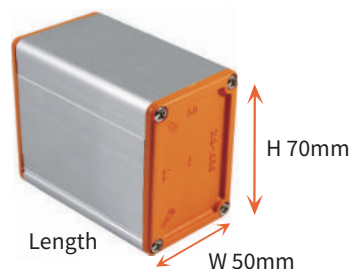
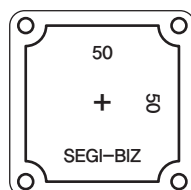
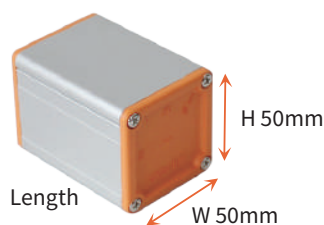
Description

Our aluminum profile boxes are lightweight, durable, and customizable up to 3.8m in length. They also support special machining, including round, square, and other custom-shaped tapping, as well as laser marking upon request. These products are widely used in various automation facilities and electronic equipment, and are particularly convenient as they are designed to function as push button boxes for mechanical devices.

Example of use



Product Type

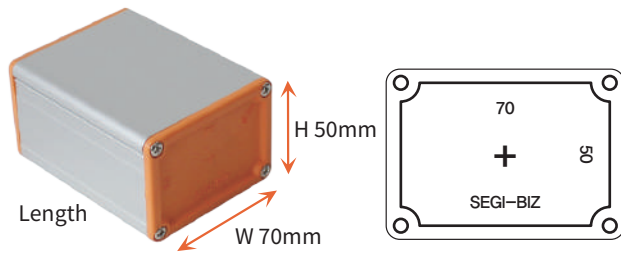


M Type

- Size(mm) : 50(W) mm X 50(H) mm X Length
- Thickness : 1.2T

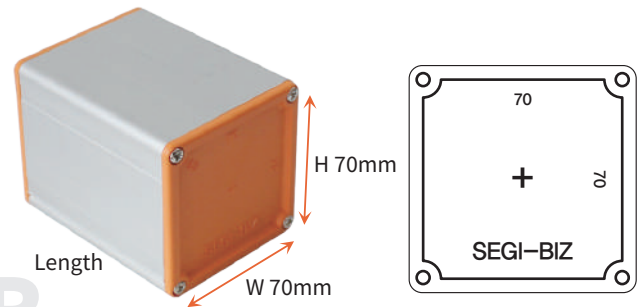
MA Type

- Size(mm) : 50(W) mm X 70(H) mm X Length
- Thickness : 1.2T



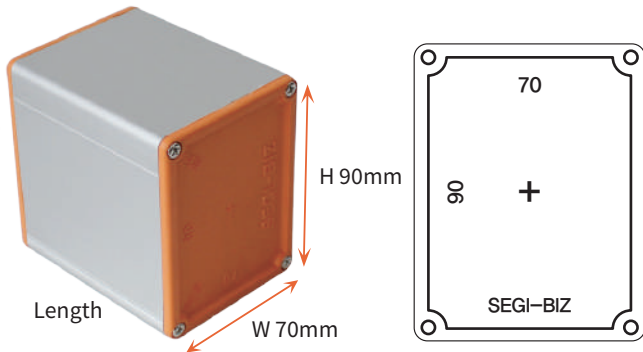
A Type

- Size(mm) : 70(W) mm X 50(H) mm X Length
- Thickness : 1.2T



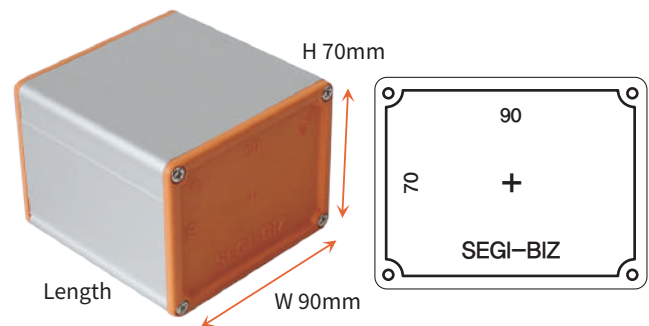
B Type

- Size(mm) : 70(W) mm X 70(H) mm X Length
- Thickness : 1.4T



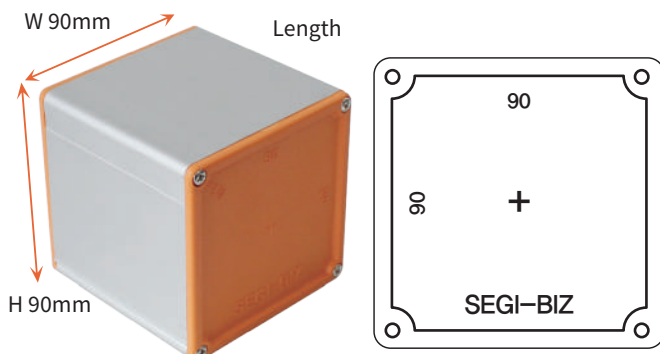
C Type

- Size(mm) : 70(W) mm X 90(H) mm X Length
- Thickness : 1.6T



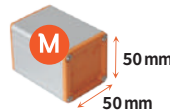
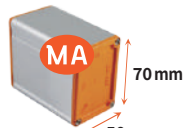
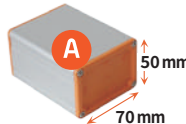
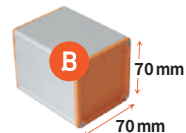
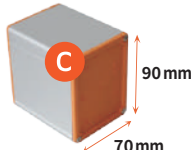
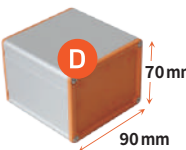
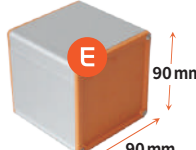
D Type

- Size(mm) : 90(W) mm X 70(H) mm X Length
- Thickness : 1.4T



E Type

- Size(mm) : 90(W) mm X 90(H) mm X Length
- Thickness : 1.6T

Aluminum Profile Box	 Size : 50 X 50 T : 1.2	 Size : 50 X 70 T : 1.2
	 Size : 70 X 50 T : 1.2	 Size : 70 X 70 T : 1.4
	 Size : 70 X 90 T : 1.6	 Size : 90 X 70 T : 1.4
	 Size : 90 X 90 T : 1.6	

Aluminum Profile Push Button Box

Nomenclature

SG - MS - 22 01 A

① ② ③ ④

① Product name
Multi Switch Box

② Hole size
Ø12 / Ø16 / Ø22 / Ø25 / Ø30

③ Number of holes
1 / 2 / 3 / 4 / 5 / 6 holes

④ Product type
M / MA / A / B / C / D / E

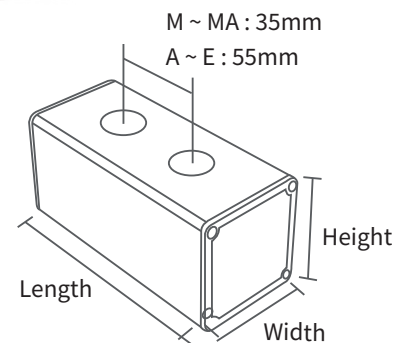


Feature

The aluminum profile push button boxes has holes (Ø12, Ø16, Ø22, Ø25, Ø30), enabling the switch to be installed without a separate process. Laser marking for nameplates is also available.

Product Specifications

Color : Main body - Silver (anodizing) /
Side plate - Orange
Tolerance : ±1mm
Operating temperature : -20 ~ 70°C
Material : Aluminum profile /
Side plate [ABS V-0]



Model	Size(mm)				Model	Size(mm)			
	Type	Width	Height	Length		Type	Width	Height	Length
SG-MS-1201	M	50	50	70	SG-MS-1204	M	50	50	175
SG-MS-1601	MA	50	70		SG-MS-1604	MA	50	70	
SG-MS-1202	M	50	50	105	SG-MS-1205	M	50	50	210
SG-MS-1602	MA	50	70		SG-MS-1605	MA	50	70	
SG-MS-1203	M	50	50	140	SG-MS-1206	M	50	50	245
SG-MS-1603	MA	50	70		SG-MS-1606	MA	50	70	
SG-MS-2201	A	70	50	90	SG-MS-2204	A	70	50	255
SG-MS-2501	B	70	70		SG-MS-2504	B	70	70	
SG-MS-3001	C	70	90		SG-MS-3004	C	70	90	
	D	90	70			D	90	70	
	E	90	90			E	90	90	
SG-MS-2202	A	70	50	145	SG-MS-2205	A	70	50	310
SG-MS-2502	B	70	70		SG-MS-2505	B	70	70	
SG-MS-3002	C	70	90		SG-MS-3005	C	70	90	
	D	90	70			D	90	70	
	E	90	90			E	90	90	
SG-MS-2203	A	70	50	200	SG-MS-2206	A	70	50	365
SG-MS-2503	B	70	70		SG-MS-2506	B	70	70	
	C	70	90			C	70	90	
SG-MS-3003	D	90	70			D	90	70	
	E	90	90			E	90	90	

Aluminum Profile Box Sloped Type

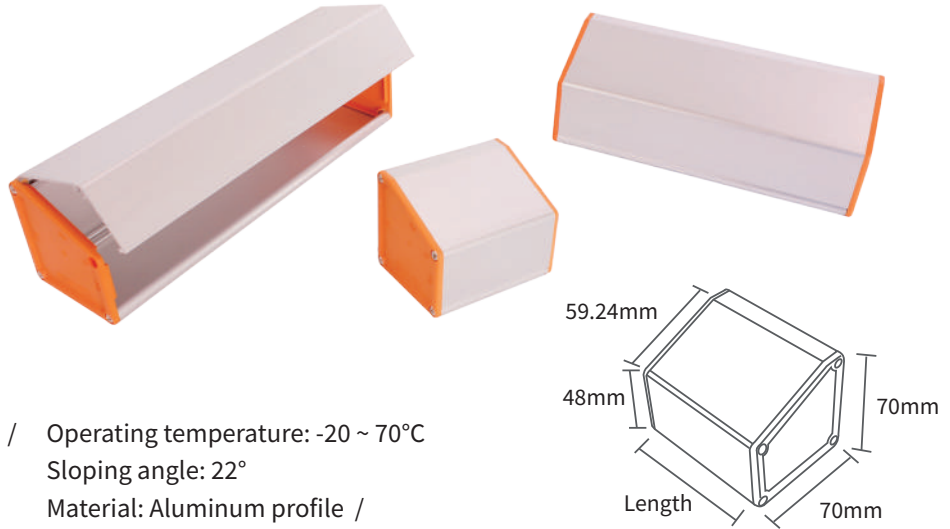
Nomenclature

SG - **MP** - **100**

① ②

① **Product name**
Multi Pentagon Box

② **Product length**
100 - 3800mm



Product Specifications

Color: Main body - Silver (anodizing) /
Side plate - Orange
Tolerance: $\pm 1\text{mm}$

Operating temperature: $-20 \sim 70^{\circ}\text{C}$
Sloping angle: 22°
Material: Aluminum profile /
Side plate [ABS V-0]

Description

Like general profile boxes, these allow you to customize the nameplate according to the product length and perform special hole processing and laser marking as needed. In particular, the sloped profile box, with its angled top surface, offers greater convenience when used as a push button box and provides an excellent exterior appearance.

Aluminum Profile Push Button Box Sloped Type

Aluminium Profile Hinge Box

Aluminum Profile Push Button Box Sloped Type

Nomenclature

SG - **MP** - **22** **01**

① ② ③

① **Product name**
Multi Switch Pentagon Box

② **Hole size**
 $\varnothing 22$ / $\varnothing 25$ / $\varnothing 30$

③ **Number of holes**
1 / 2 / 3 / 4 / 5 / 6 holes



Model	Hole	Ø	Length (mm)	Model	Hole	Ø	Length (mm)
SG-MP-2201	1 holes	22	90	SG-MP-2204	4 holes	22	255
SG-MP-2501		25		SG-MP-2504		25	
SG-MP-3001		30		SG-MP-3004		30	
SG-MP-2202	2 holes	22	145	SG-MP-2205	5 holes	22	310
SG-MP-2502		25		SG-MP-2505		25	
SG-MP-3002		30		SG-MP-3005		30	
SG-MP-2203	3 holes	22	200	SG-MP-2206	6 holes	22	365
SG-MP-2503		25		SG-MP-2506		25	
SG-MP-3003		30		SG-MP-3006		30	

Aluminum Profile Industrial Socket Box

Nomenclature

SG - MC - 01 (406502V)

① ② ③

① Product name

Multi Socket Box

② Number of Socket

1 / 2 / 3 / 4ea

③ Number of industrial Sockets

406502V / 406506V



SG-MC-02
(406506V)

SG-MC-02
(406502V)

※ Can be customized

Model	Size(mm)		
	Width	Height	Length
SG-MC-01 (406502V / 406506V)	90	70	140
SG-MC-02 (406502V / 406506V)			250
SG-MC-03 (406502V / 406506V)			360
SG-MC-04 (406502V / 406506V)			470

Aluminum Profile Socket Box

Nomenclature

SG - MC - 01

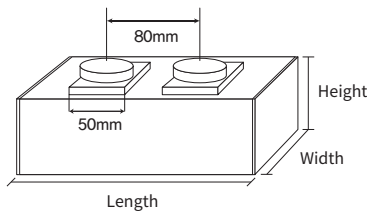
① ②

① Product name

Multi Socket Box

② Number of Sockets

1 / 2 / 3 / 4 / 5 / 6ea



Specifications

Color: Main body - Silver /

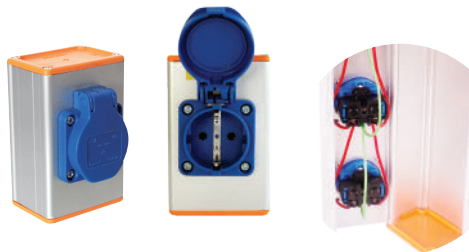
Side plate - Orange

Voltage / Current: AC220V~240V / 16A

Tolerance: ± 1 mm

Operating temperature: -20 ~ 70°C

※ Can be customized



Model	Size(mm)		
	Width	Height	Length
SG-MC-01	70	50	108
SG-MC-02			188
SG-MC-03			268
SG-MC-04			348
SG-MC-05	70	50	428
SG-MC-06			508
SG-MC-07			588
SG-MC-08			668

Nomenclature

SG - MC L - 02

① ② ③

① Product name

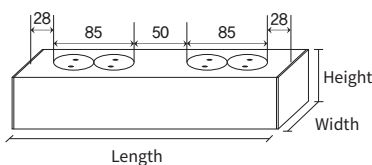
Multi Socket Box

Outlet direction

② Horizontal type (W) /
Vertical type (L)

③ Number of Sockets

2 / 4 / 6 / 8 / 10 /
12 / 14 / 16 / 18ea



Specifications

Color: Main body - Silver / Side plate - Orange

Operating temperature: -20 ~ 70°C

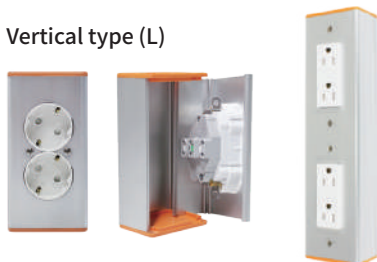
※ AC 110V 220V types are available /
Can be customized

■ Horizontal type (W)



AC 220V

■ Vertical type (L)



AC220V

AC110V

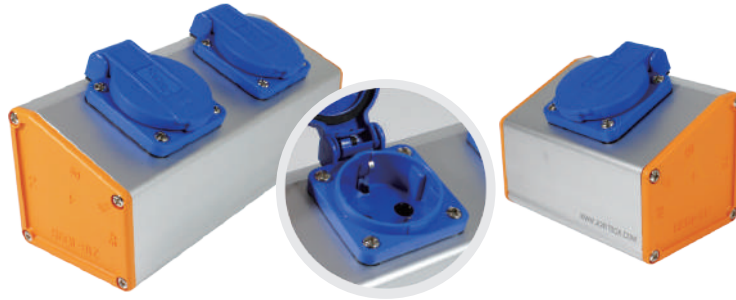
Model	Size(mm)		
	Width	Height	Length
SG-MCL(W)-02	70	50	141
SG-MCL(W)-04			276
SG-MCL(W)-06			411
SG-MCL(W)-08			546
SG-MCL(W)-10			681
SG-MCL(W)-12			816
SG-MCL(W)-14			951
SG-MCL(W)-16			1086
SG-MCL(W)-18			1221

Aluminum Profile Socket Box Sloped Type

Nomenclature

SG - **MP** - **01**
 ① ②

- ① **Product name**
Multi Pentagon Socket Box
- ② **Number of Sockets**
1 ~ 8ea



※ Tolerance : ±1mm

Product Specifications

Color : Main body - Silver (anodizing) /
Side plate - Orange /Socket - Blue

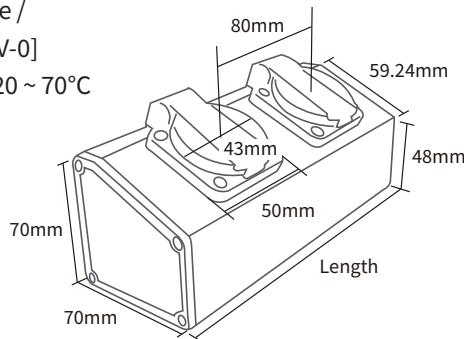
Voltage / Current : AC220V~240V / 16A

Material : Aluminum profile /
Side plate [ABS V-0]

Operating temperature : -20 ~ 70°C

Sloping angle : 22°

※ Can be customized



Model	Size(mm)		
	Width	Height	Length
SG-MP-01	70	70	108
SG-MP-02			188
SG-MP-03			268
SG-MP-04			348
SG-MP-05			428
SG-MP-06			508
SG-MP-07			588
SG-MP-08			668

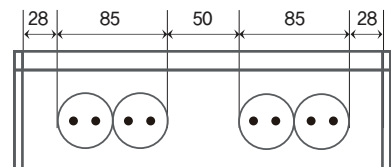
Nomenclature

SG - **MP** **W** - **02**
 ① ② ③

- ① **Product name**
Multi Pentagon Socket Box
- ② **Outlet direction**
Horizontal type (W)
- ③ **Number of Sockets**
2 / 4 / 6 / 8ea



Top Surface



Product Specifications

Color : Main body - Silver / Side plate - Orange

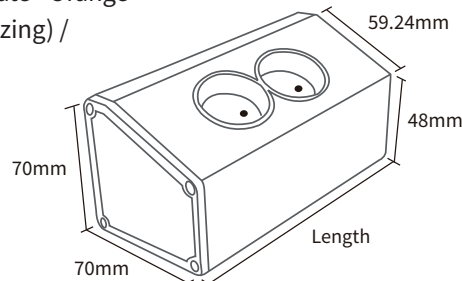
Material : Aluminum profile (anodizing) /
Side plate [ABS V-0]

Tolerance : ±1mm

Operating temperature : -20 ~ 70°C

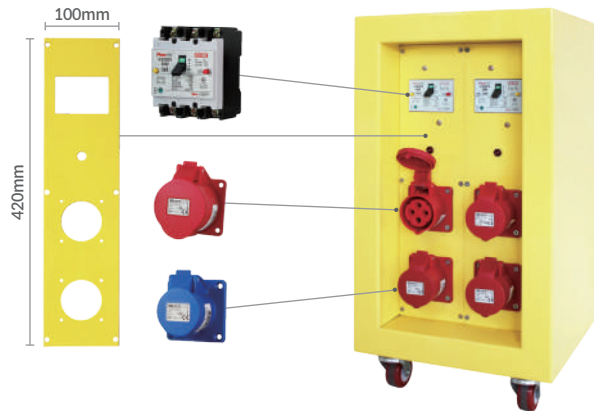
Sloping angle : 22°

※ Can be customized



Model	Size(mm)		
	Width	Height	Length
SG-MPW(L)-02	70	70	141
SG-MPW(L)-04			276
SG-MPW(L)-06			411
SG-MPW(L)-08			546
SG-MPW(L)-10			681
SG-MPW(L)-12			816
SG-MPW(L)-14			951
SG-MPW(L)-16			1086
SG-MPW(L)-18			1221

Breaker Type Mobile Industrial Socket Box



Portable Power Supply		
Box	Size	300(W) X 520(H) X 300(D)mm
	Thickness / Weight	1.6T / 19kg
Circuit breaker	Type	ELB-3P (2ea)
	Breaking Capacity	2.5kA
Socket	Type	406506V(4P16)
	EA	4
	Voltage	380-415V
	Current	16A
	Protection Rating	IP44

Product Specifications

Color : Yellow Material : Steel Circuit breaker's Voltage / Current : AC460V / 30A
Tolerance : ± 1 mm Operating temperature : $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ ※ Can be customized

※ The socket type can be changed by the customer.
※ 30A, 50A, 60A
※ Single or Three - phase types can be customized.

Description

The 30A, 50A, and 60A models improve on the traditional method of supplying power by connecting wires directly to the distribution board, making it simple to deliver power to the outlet. They include short circuit breakers with appropriate capacity to prevent accidents and feature a compact design that saves space.

Breaker Type Industrial Socket Box

Specifications

Color: Main body - Silver / Side plate - Orange Material : Aluminum profile (anodizing) / Flame-Side plate [ABS V-0]
Tolerance : ± 1 mm Operating temperature : $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ ※ Can be customized



220V

380V

Model		SG-MC-N-02-SS(30A)	SG-MC-N-02-SL(30A)	SG-MC-N-02-S(60A)	SG-MC-N-02-T(30A)	SG-MC-N-02-T(50A)	SG-MC-N-02-T(60A)
Box	Size	70 X 70 X 310mm	90 X 70 X 420mm	90 X 70 X 420mm	90 X 70 X 420mm	90 X 70 X 420mm	90 X 70 X 420mm
	Thickness	1.4T	1.4T	1.4T	1.4T	1.4T	1.4T
Circuit Breaker	Type	ELB-2P	ELB-2P	ELB-2P	ELB-3P	ELB-3P	ELB-3P
	Rated Voltage	AC220V	AC220V	AC220V	AC460V	AC460V	AC460V
	Rated Current	30A	30A	60A	30A	50A	60A
	Breaking Capacity	2.5kA	5kA	5kA	2.5kA	2.5kA	2.5kA
Socket	Type	404030ST06 (2P16)	406502V (3P16)	406514V (4P32)	406506V (4P16)	406506V(4P16) / 406518V(4P32)	406518V (4P32)
	EA	2ea	2ea	2ea	2ea	1ea / 1ea	2ea
	Voltage	220-240V	220-250V	220-250V	380-415V	380-415V	380-415V
	Current	16A	16A	32A	16A	16A / 32A	32A
	Protection rating	IP54	IP44	IP44	IP44	IP44	IP44

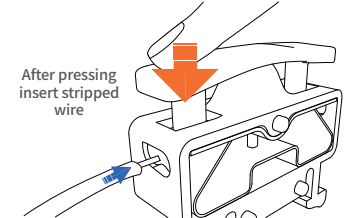
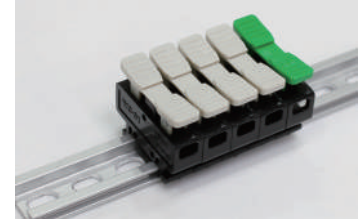
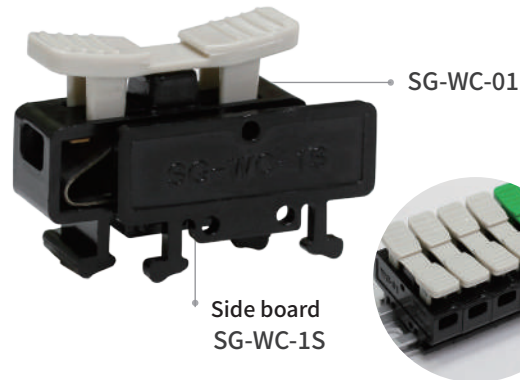
Wire Connector

Nomenclature

SG - WC - 01

① ②

- ① Product name
Wire Connector
- ② Number of connector
1Pin



Feature

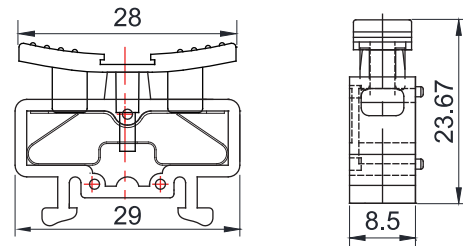
Rail type connector product that is fixed to the channel and be used. The main body is made of PC and the PUSH part is made of ABS, giving it excellent heat resistance and strong impact resistance. Side board can be ordered separately.

Product Specifications

Color: Ivory, Green - Push, Black - Main Body

Operating temperature: -20 ~ 70°C

Material: Main body [PC] / PUSH [ABS V-0]



Electrical Specifications

Service wire size : 1.5mm² (20 ~ 16AWG)

Rated input voltage : 250Volts

Description

This product can be used by inserting stripped wires that meet the standard while pressing the push section. It is designed exclusively for DIN rail mounting and allows a name strip to be inserted into the groove on the push part of the product.

Plastic Connector Box

Nomenclature

SG - WC - 06

① ②

- ① Product name
Plastic Connector Box
- ② Number of connector
6, 10, 15, 20Pin



Description

The plastic connector box can save time and cost by allowing you to use a wire connector instead of a terminal box.

Model	Size(mm)	Weight(g)	Model	Size(mm)	Weight(g)
SG - WC - 6P	90 X 65 X 45	135	SG - WC - 15P	100 X 200 X 65	423
SG - WC - 10P	90 X 100 X 45	183	SG - WC - 20P	160 X 150 X 65	479

Terminal Block

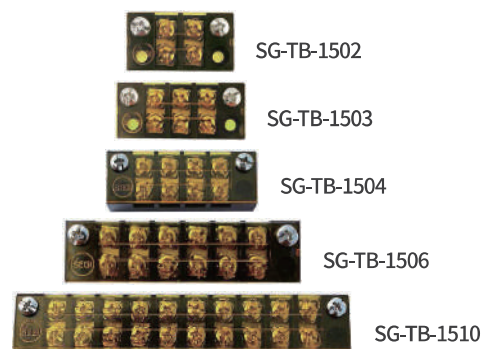
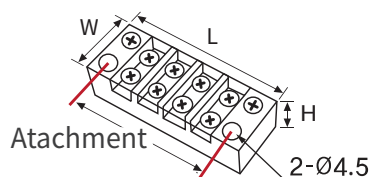
RoHS

Nomenclature

SG - TB - 1502

① ②

 ① **Product name**
Terminal Block

 ② **Current / Number of pins**
15A / 02 - 10 Pin


Product Specifications

Tolerance: $\pm 1\text{mm}$

Color : Black

Operating temperature : $-20 \sim 70^{\circ}\text{C}$

Rated voltage : 250V

Allowable current : 15A

Material : PC

Model	Size(mm)			
	Length	Width	Height	Attachment
SG-TB-1502	38	20	14	28
SG-TB-1503	48			38
SG-TB-1504	57			48
SG-TB-1506	77			67
SG-TB-1510	117			107

Fixed Bracket

RoHS

Description

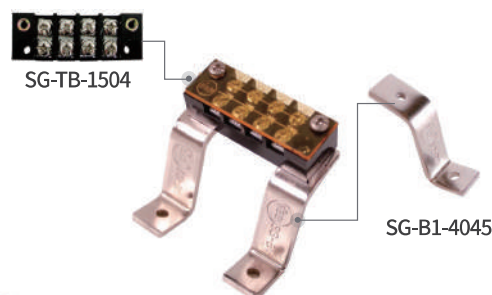
It is designed to reduce inconvenience when extracting terminals from the panel plate.

Product Specifications

Tolerance: $\pm 1\text{mm}$

Color : Silver

Material : Steel



SG-B1-4045



SG-B1-4090



SG-B2-6045



SG-B2-6090



SG-B3-4045



SG-B3-4090

Size (mm)					
SG-B1-4045	SG-B1-4090	SG-B2-6045	SG-B2-6090	SG-B3-4045	SG-B3-4090

※ SG-B3-4045 : Only fixed terminal 100A or higher products are available

※ Width : B1, B2 - 17mm / B3 - 22mm / Thickness : 3T

DC Terminal Block

RoHS



Product Specifications

Tolerance: $\pm 1\text{mm}$

Color: Gray

Operating temperature: $-20 \sim 70^{\circ}\text{C}$

Rated voltage: AC250V / Allowable current: 10A

Material: ABS V-0

HC Terminal Block

(Heat-resistant terminal block)



Product Specifications

Tolerance: $\pm 1\text{mm}$

Color: Ivory

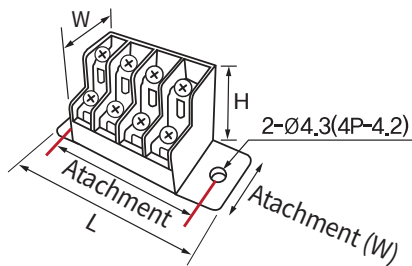
Operating temperature: $-20 \sim 400^{\circ}\text{C}$

Rated voltage: AC250V / Allowable current: 10A

Material: MPPO

Description

It is used to organize and connect power wires inside the PCB substrate's electrical channels.



Model	Size(mm)					
	Length	Width	Height	Attachment Width	Attachment	Weight(g)
SG DC(HC) 4P	51	22	27	14	42	23
SG-DC(HC)-6P	67		27	14	58	33
SG-DC(HC)-10P	100		27	14	91	53
SG-DC(HC)-15P	150		27	22	138	78
SG-DC(HC)-20P	192		32	22	180	109
SG-DC(HC)-25P	232		31	22	220	134

Din Rail

RoHS

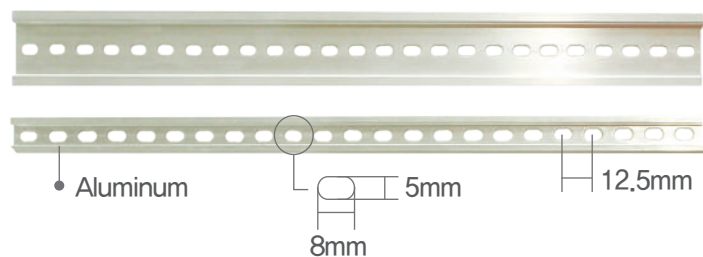
Nomenclature

SG - DR - 35

① ②

① Product name
Din Rail

② Width
15 : 15mm
35 : 35mm



※ ER-15 / 35 Hole size and spacing are the same

Model	Size (mm)	
	Width	Length
SG-DR-15	15	1000
SG-DR-35	35	1000

Product Specifications

Tolerance: $\pm 1\text{mm}$

Color: Silver (anodizing)

Material: Aluminum

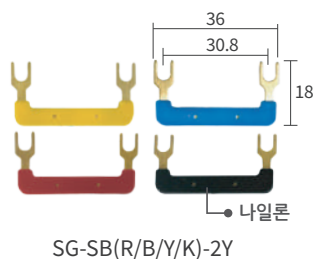
Short Bar

Nomenclature

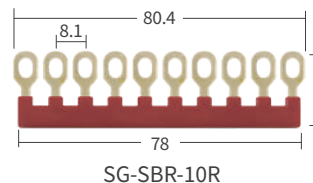
SG - SB R - 10 Y

① ② ③

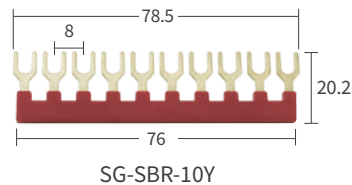
- ① **Color**
R : Red, B : Blue, Y : Yellow, K : Black
- ② **Number of holes**
2Pin / 10Pin
- ③ **Product type**
Y : Y-shape / R : O-shape



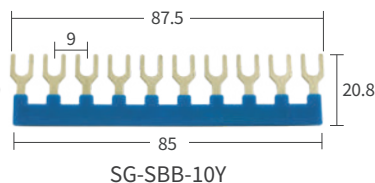
SG-SB(R/B/Y/K)-2Y



SG-SBR-10R



SG-SBR-10Y



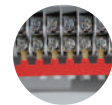
SG-SBB-10Y

(Unit : mm)

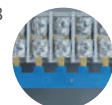
RoHS



SG-SBR-2Y



SG-SBR-10Y/R



SG-SBB-10Y

Product Specifications

Tolerance: $\pm 1\text{mm}$

Color: Red, Blue, Yellow, Black

Current: 10A, 15A

Material: Brass, Nylon coating

Model	Color	Applicable products
SG-SB(R/B/Y/K)-2Y	Red, Blue, Yellow, Black	MY-2, MY-4 For relay sockets
SG-SBR-10Y/R	Red	For 10A TB - 4P, 4PT, 6P, 6PT, 10PT, 15PT, 20PT, 30P, 40P, 50P AL - 4P, 6P, 10P, 12P, 15P, 20P, 20PT, 30P, 40P, 50P-S, 50P-L
SG-SBB-10R	Blue	
SG-SBB-10Y	Blue	For 15A TB - 4P15, 6P15, 10P15, 15P15, 20P15

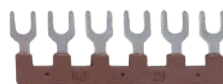
Product Specifications

Color: Yellow, Blue, Red, Brown, Green, Gray, Black, White

Material: PVC flame-retardant

- The advantage is that the insulation is not damaged by special injection.

Product name	Model
Assembly type - Short Bar (10A)	KS - 102 Y/R
	KS - 103 Y/R
	KS - 106 Y/R
Assembly type - Short Bar (15A)	KS - 152 Y/R
	KS - 153 Y/R
	KS - 1512 Y/R
Fixed type - Short Bar (20A)	KS - 202 Y/R
	KS - 203 Y/R
	KS - 206 Y/R
	KS - 2012 Y/R
Assembly type - Short Bar (25A)	KS - 252 Y/R
	KS - 253 Y/R
	KS - 256 Y/R
Assembly type - 쇼트바 (35A)	KS - 352 Y/R
	KS - 353 Y/R
	KS - 358 Y/R
20 A ELB Kommonbar	KS - 2P





Safety Knife

Model	Size(mm)	Weight(g)	Cutting depth	
 SECUMAX 150 NO. 150001	148 x 11 x 37.2mm	24.4	6.2mm	  
 SECUMAX 145 NO. 145001	118 x 4 x 35.4mm	12	3.8mm	  
 SECUMAX 350 NO. 350001	154 x 12 x 40mm	37	6mm	  
 SECUMAX 175 NO. 175001	109.5 x 13.5 x 34mm	31	10mm	  
 SECUMAX EASYSAFE NO. 121001	207 x 10 x 66mm	66.3	6.6mm	  
 SECUPRO MAXISAFE NO. 101806	148 x 18 x 42mm	65.4	16mm	  
 SECUNORM MIZAR NO. 125001	139 x 15.6 x 50.5mm	59	15mm	  

Stripping Tools



Economical 4-piece set



Components	Cable Stripper S 4 - 28 Multi	
	Coax-Stripper No. 2	
	Round Cable Stripper No. 13	
	Wire Stripper No. 5	

Cable Stripper

Cable Stripper	Ø mm	AWG	Weight (g)	
Cable Stripper No. 4 - 16	4 - 16		84	
Cable Stripper No. 8 - 27	8 - 28		92	
Cable Stripper No. 4 - 28 H (Hooked blade + protective cap)	4 - 28		98	
Cable Stripper No. 28 - 35	28 - 35		87	
Cable Stripper No. 35 - 50	35 - 50		90	
Cable Stripper S 4 - 28	4 - 28		72	
Cable Stripper S 4 - 28 Multi	4 - 28	20 - 10 (0.5 - 16 mm ²)	61	

Dismantling Stripper

Dismantling Tools	Ø mm	AWG	Weight (g)	
Round Cable Stripper No. 13	8 - 13		44	

Multi-purpose Strippers

Multi-purpose Strippers	Ø mm	AWG	Weight (g)	
Stripper No. 30 	4 - 10		60	
Multi-Stripper No. 400 	8 - 13	20 - 10 (0.5 - 16mm ²)	79	

Wire Strippers

Wire Strippers	Round cable	AWG	Weight (g)	
Wire Stripper No. 5 		24 - 10 (0.2 - 6mm ²)	107	
Wire Stripper No. 7 Magic 	flexible	20 - 6 (0.5 - 16mm ²)	217	
	solid	20 - 8 (0.5 - 10mm ²)		

Industrial Plug&Socket



16A



Voltage composition	Plug	Socket			Angled Socket	Straight Socket	Box Socket
220V 2P+E IP44	 404001	 404010	 404014K	 404005		 404012	
220V 2P+E IP44	 406101V		 406401V		 406501V	 406502V	 406602V 406678V
220V 2P+E IP67	 406102V		 406402V		 406503V	 406504V	 406603V 406684V
380V 3P+E IP44	 406103V		 406403V		 406505V	 406506V	 406605V
380V 3P+E IP67	 406104V		 406404V		 406507V	 406508V	 406606V 406685V
380V 3P+N+E IP44	 406105V		 406405V		 406509V	 406510V	 406607V
380V 3P+N+E IP67	 406106V		 406406V		 406511V	 406512V	 406609V

Industrial Plug&Socket

32A



Voltage composition	Plug	Socket	Angled Socket	Straight Socket	Box Socket
220V 2P+E IP44	 406107V	 406407V	 406513V	 406514V	 406611V
220V 2P+E IP67	 406108V	 406408V	 406515V	 406516V	
380V 3P+E IP44	 406109V	 406409V	 406517V	 406518V	 406614V
380V 3P+E IP67	 406110V	 406410V	 406519V	 406520V	 406688V
380V 3P+N+E IP44	 406111V	 406411V	 406521V	 406522V	 406616  406683V
380V 3P+N+E IP67	 406112V	 406412V	 406523V	 406524V	 406618V



Industrial Plug&Socket

63A



Voltage composition	Plug	Socket	Angled Socket	Straight Socket	Box Socket
220V 2P+E IP44	 406113	 406413	 406525	 406526	
220V 2P+E IP67	 406114	 406414	 406527	 406528	
380V 3P+E IP44	 406115	 406415	 406529	 406530	 406628
380V 3P+E IP67	 406116	 406416	 406531	 406532	 406622
380V 3P+N+E IP44	 406117	 406417	 406533	 406534	 406623
380V 3P+N+E IP67	 406118	 406418	 406535	 406536	 406624

125A

Voltage composition	Plug	Socket	Angled Socket	Straight Socket	
380V 3P+E IP67	 406119	 406419	 406537	 406538	
380V 3P+N+E IP67	 406120	 406420			

Square Multipolar Connector



Composition	INSERTS		HOODS & HOUSINGS						
	FEMALE	MALE							
3P+E X 10A	 29008	 29009	 29013S	 29014S	 29015S	 29017	 29018S	 29019	
4P+E X 10A	 29010	 29011	 29013S	 29014S	 29015S	 29017	 29018S	 29019	
6 X 16A	 29120	 29121	 29130S	 29131	 29132S	 29133S	 29135	 29140S	
6 X 35A	 29124	 29125	 29042S	 29043	 29050S	 29155	 29160S	 29056S	
10 X 16A	 29020	 29021	 29040S	 29041	 29049S	 29145	 29150S	 29055S	
16 X 16A	 29022	 29023	 29042S	 29043	 29050S	 29155	 29160S	 29056S	
24 X 16A	 29024	 29025	 29044S	 29045	 29051S	 29165	 29059S		
32 X 16A	 29022 - 2ea	 29023- 2ea	 29060	 29061	 29046S				

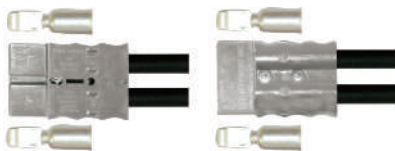
Battery Modular Connectors



10~30 Amp Series



75 Amp Series



50~350 Amp Series [2P]

AMP Series	Housings	Contacts	Current Rating
10 ~ 30 Amp Series	BMC 1S	BMC 1AG	15
		BMC 2AG	30
		BMC 5AG	50
75 Amp Series	BMC 1M	BMC 8AG	60
		BMC 14AG	75

※ Rated voltage 600V

AMP Series	Housings	Contacts	Current Rating
50 Amp Series	BMC 2S	BMC 5AG	35
		BMC 8AG	45
		BMC 14AG	50
120 Amp Series	BMC 2MS	BMC MS14AG	80
		BMC MS22AG	100
		BMC MS38AG	120
175 Amp Series	BMC 2M	BMC 22AG	125
		BMC 38AG	150
		BMC 60AG	175
350 Amp Series	BMC 2L	BMC 150AG	350

Waterproof Connector

Import parted

Waterproof Connector

Product Specifications

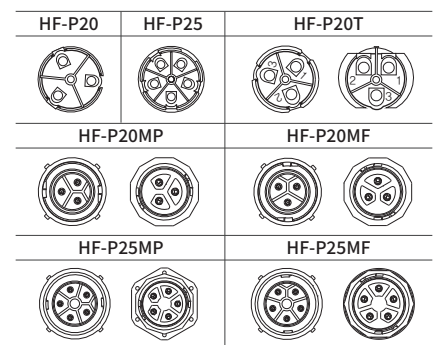
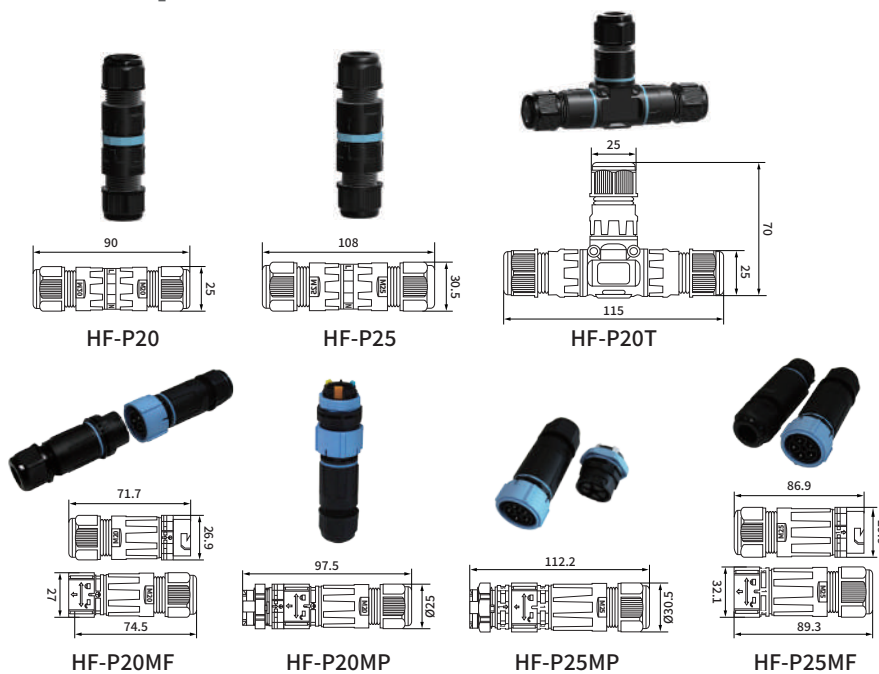
Operating Temperature : -40°C ~ 105°C

IP Rating : IP68

Materials : housing [nylon PA66/PA6 V-0]
terminal [Bronze alloy (Bronze + Silver)]

Voltage : 450V

Current : 24A

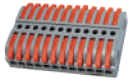


Sectional View

Model	Pin	Voltage	Current	Wire Size	External Cable		
HF-P20	2/3pin	450V	24A	0.5 - 1.5mm ³	5~9mm		
HF-P20T							
HF-P20MF							
HF-P20MP							
HF-P25MF	4/5pin			450V	24A	0.5 - 2.5mm ³	5~9mm, 9~12mm, 10~14mm
HF-P25							
HF-P25MP							

Quick Wire Connector

32A

Rated Voltage		One-way connector							
		Model		Size(L X W X H)		Model		Size(L X W X H)	
250V	PCT-212		21.2 x 12.5 x 14.5mm		PCT-213		21.2 x 17 x 14.5mm		
	PCT-214		21.2 x 21.7 x 14.5mm		PCT-215		21.2 x 26.4 x 14.5mm		
	PCT-218		21.2 x 40.2 x 14.5mm						
Rated Voltage		Two-way connector							
		Model		Size(L X W X H)		Model		Size(L X W X H)	
250V	PCT-211		39.3 x 8.5 x 14.7mm		PCT-222		39.3 x 13 x 14.6mm		
	PCT-223		39.3 x 18.5 x 14.6mm		PCT-224		39.3 x 23.1 x 14.6mm		
	PCT-225		39.3 x 28.1 x 14.6mm		LT-223-5		39.3 x 28.3 x 15.6mm		
	LT-223-10		39.3 x 53.1 x 15.6mm		LT-223-12		39.3 x 63.3 x 15.6mm		
	PCT-222-2C		39.3 x 13 x 14.6mm		PCT-222-3C		39.3 x 18.5 x 14.6mm		
	PCT-224-4C		39.3 x 23.1 x 14.6mm						
Rated Voltage		Extendable connector							
		Model		Size(L X W X H)		Model		Size(L X W X H)	
250V	LT-422-2C		39 x 23.2 x 14.5mm		LT-623-2C		39 x 33.2 x 14.5mm		
	LT-633-3C		39 x 33.2 x 15.4mm						
Bracket	LT22		Compatible model						
					LT-223-5	LT-223-10	LT-223-12	LT-633-3C	



- ※ Products listed in this catalog are subject to change without prior notice to improve quality.
- ※ For detailed product inquiries, please contact our head office.
- ※ Please check it when installing or using it.

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ELECTRIC TECHNOLOGY

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We make the future of electrical parts industry



2025.07.03

ELECTRIC INFORMATION

CATALOGUE



아이룩스
I LOOKS

History

2022~2025

2025 • PD 250A, PD/NPD – UL Certification
Development AUT-45M modular Signal Tower

2024 • Launch of AUT-50 aluminum body tower Light
• Launch of AUW-L/LF40 signal lights
• Renewal of NPD 100A, 200A products
• Launch of Mini Switch Guard SG-EGM
• Development of AUHW LED horn-type signal light with built-in buzzer
• Opening of ILOOKS website
• Development of NPD terminal block-type power distributor (250A)
• Development of single-pane side mount led signal tower
• Launch of AUW-CL100, 125
• Launch of AUB-WV wall-mounted bracket for signal lights
• Launch of Power Distribution Kit (PDK)

2023 • Development of triple-pane side mount led signal tower
• PD / AUT Series – CE Certification
• Switch Protection Cover SG-EC launched
• Single-type Power Distributor Protection Cover launched
• Brackets B3-4045, 4090 developed
• Switch Protection Cover SG-EC launched

2022 • Developed Power Distribution 2L06, 3L06-50A
• Developed Ø40 Signal Tower
• 5 Color Signal Tower Redevelopment
• ILOOKS shop renewal open

2017~2020

2020 • Released AURORA Tower Light and Warning Light
• Developed Power Distribution Terminal Block 400A
• Developed NFB Power Distribution Terminal Block 400A

2019 • Developed NFB Power Distribution Terminal Block

2018 • Acquired UL for Power Distribution

2017 • Developed Power Distribution Terminal Block

2011~2016

2016 • Acquired LED Machine Light CE, IP65

2015 • Developed Canada & USA LED Machine Light
• Developed Power Distribution and Signal Tower

2014 • Developed Working Light

2011 • Developed LED Light

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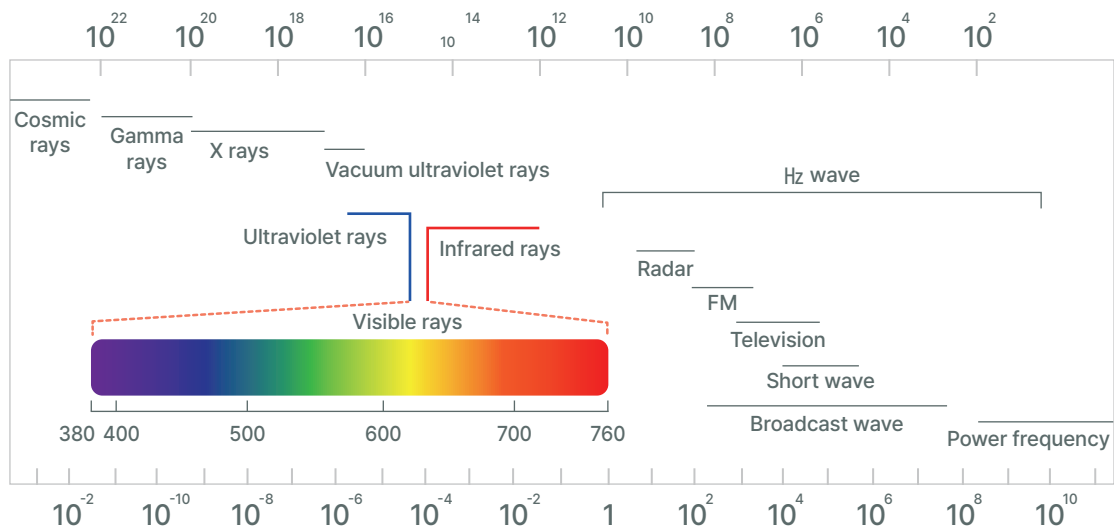
TECHNICAL INFORMATION

Signal Light

Light & Color

Light and colors are a part of electromagnetic waves, and are converted to physiological energy by the eyes to be perceived by the brain. Humans can only perceive a small range of about 380~760 [nm] electromagnetic waves as light, but express different sensitivities depending on the sense of light and the wavelength. That is, humans can keenly perceive color changes based on the difference in wavelength: red for long wavelength while blue for short wavelength. This color sense is a sensual change related to brightness, which is why yellow makes us feel bright while blue makes us feel dark. This brightness spectrum, even when it has uniform energy, makes our eyes feel a different sensitivity depending on the wave strength. That is, 555 [nm] of light makes us feel the brightest light, while a longer or shorter wavelength than this gradually reduces the sense of brightness.

Spectrum of electromagnetic radiation



Term Definition

Light velocity

Light velocity means light that is visible to the human eyes. Its wavelength is about 380~760nm, and its unit is 'lumen' (lm), which represents the amount of light passed in unit time and is indicated with "F".

Luminosity

This refers to the amount of luminous flux per unit solid angle radiating from the light source. The unit of luminosity is Candela (cd), and the indication symbol is "I".

Illumination

This refers to the brightness of a surface illuminated by a light source. The unit is lux (lx) and the indication symbol is "E".

Luminance

This represents luminosity per unit area on the appearance of an object observed. The unit used to express it is stilb (sb) or nit (nt).

Light Source Type



Incandescent bulb

Incandescent bulbs are referred to simply as bulbs or incandescent lamps. An incandescent bulb changes electricity to thermal energy, and uses the light radiated from the thermal energy as lighting. Its basic operating principle is to send current to a luminous body called a filament, which is tungsten wire wound in dual coil shape with 3,400 degree of high contact point, and generate joule (J) heat. Incandescent bulbs are cheap, easy to handle, and enable immediate lighting without the need for special equipment. Also, its point light source is so small that any lighting tool can be combined and the color rendition is good. However, the lifespan is as short as 1,000~2,000 hours, and the efficiency is as bad, at 15~20m/W.



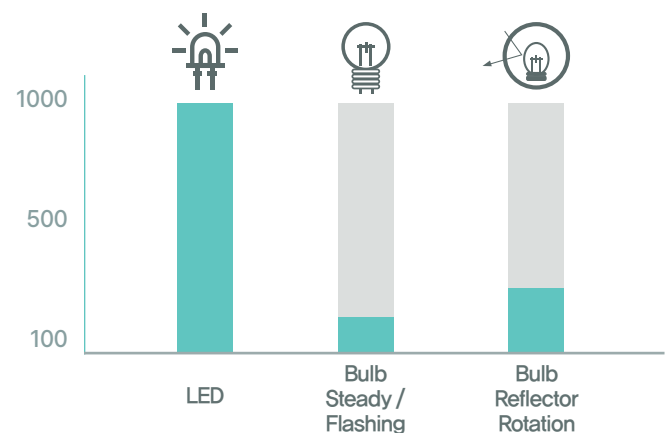
LED

This stands for "Light Emitting Diode." It is a light emitting semiconductor where direct current (DC) is flowing. It is an element that changes electrical signals to light signals. LEDs emit different colors depending on the material of the semiconductor, and they are small compared to bulbs, fluorescent lights, and neon tubes. It uses low voltage (DC5V), has very low power consumption (25mW), low heat generation and a semi-permanent service life (longer than 50,000 hrs). In addition, various luminous colors are available (Red, Green, Yellow, White, Blue, etc.).

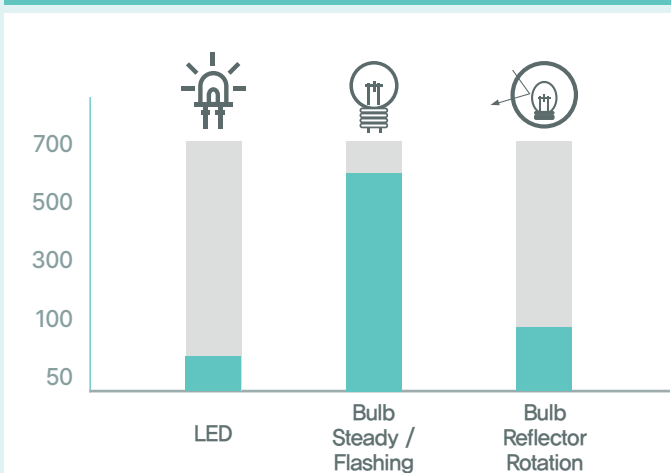
Comparison graphs for lifespan, brightness, and economic feasibility by the types of light sources

Comparison diagram when the maximum properties (lifespan, brightness, and economic feasibility) of indicating lamps set as 1000, 500 and 700 respectively.

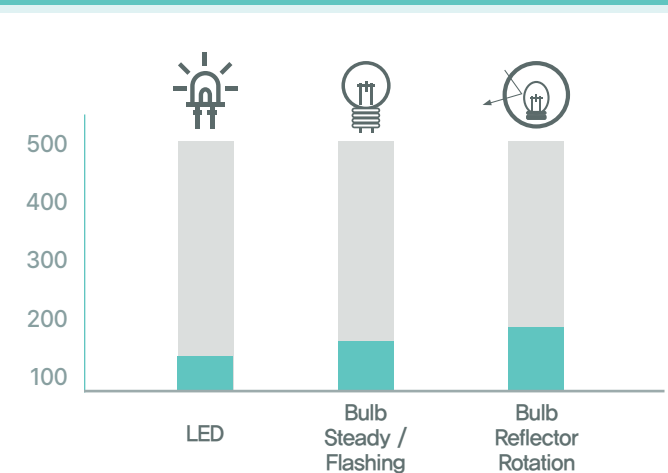
Lifespan



Economic Feasibility



Brightness



Nature of Sound

Electronic Signal Horn

Sound Wave

- Sound: Changes of air density or pressure – that is, the wave of condensation and rarefaction of air particles.
- Sound pressure: Changes in sound pressure, and the unit is bar. Minimum sound pressure we can hear is 0.0002 μ bar.
- Sound pressure level (SPL)
- Sound velocity

3 Elements of Sound

- Sound Intensity: Sound volume related to loudness and sound pressure
- Sound pitch: Tune, the rise and fall of sound related to sound frequency
- Timbre: Related to wave pattern representing a sound

Intensity of Sound

Sound intensity refers to the sensory quality of sound in our ears. The nature of human ears means that we perceive a different level of sound pressure if the frequency changes.

Listen to the sensory quality of a sound based on frequency f (Hz) by comparing to 1000Hz of pure sound as a reference sound, and increase the sound pressure of the reference sound until the sound intensities of two sounds are identical. At this time, the sensory quality of that 1000Hz sound is the loudness level of the sound, and the unit is expressed as phon (ph).

Frequencies near to 3Hz can be heard the most easily by human ears; sounds that are lower or higher than this frequency are harder to hear. Also, frequency properties of 100ph sound are relatively even.

Reverberation

When we listen sounds from audio systems or music instruments, we are listening both to the source of the sound and to the indirect sounds reflected from the wall or ceiling. This means that even when sounds from the original source stop, the reduced indirect sounds still remain, because the indirect sounds arrive slightly later than the direct sounds. This phenomenon is called reverberation.

Output Sound Pressure Level & Sensitivity

Speaker sensitivity is a ratio indicating how much of the electrical input applied to a speaker is radiated in the form of acoustic energy. Usually, it is expressed as sound pressure or output sound pressure level created in a specific distance point located at the frontal axis of the speaker, when single input is applied to the speaker.

Output sound pressure level of a speaker means the average of sound pressure level created 1m away from the frontal axis of the speaker by applying 1W of input voltage to the speaker within a defined frequency range.

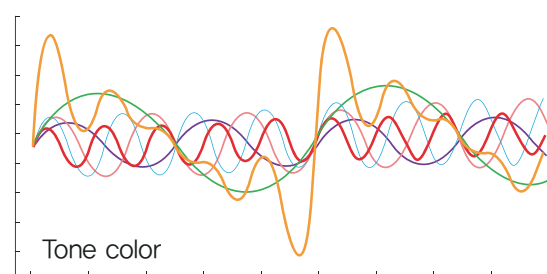
Sound Pressure

Sound refers to the changes of air density or pressure – that is, the wave of condensation and rarefaction of air particles. Pressure becomes higher in places with high air density, while it becomes lower than even the air pressure in places of low density.

The human auditory sense receives impetus from subtle changes in the air pressure, and perceives a sound. A sound source is the origin of a sound; a pressure change in a sound source makes the sound smaller in reverse proportion to the distance. This small pressure change is called sound pressure, and is expressed using the same unit as air pressure (bar).

Audible Range

Sound intensities and frequencies audible to human ears are limited. In general, the hearing frequency range audible to the human ear is around 20~20000Hz, which is called audio frequency. Sound can be heard within a range of 0~125dB. A sound needs to be within a steady range to be heard. The lowest sound pressure level audible to the human ear is called the minimum audible limit, while the highest is called the maximum audible limit.



Icon Description

Light Source	Operation	Sound	Option
 Incandescent bulb  LED	 Steady type  Flashing type  Revolving type  Strobe	 Maximum volume  Buzzer  Siren  Melody  Voice	 High luminance  Magnet mounted  Protective net

Main Product (Signal Tower Light & Warning Light) Specifications

Tower Light	LED Signal Tower Light	AUT – L (LF) / AUTN – L (LF)	       
	Ethernet Signal Tower Light	AUT – EN	    
	Device Net Signal Tower Light	AUT – DN	  
	USB Signal Tower Light	AUT – U	    
	Connector type Signal Tower Light	AUT – CO	  
	LED 45M modular Signal Tower Light	AUT – 45M	     
	LED Ø40 LED Signal Tower Light	AUT – 40L / LF	   
	LED Ø50 Aluminum body Signal Tower Light	AUT – 50	  
	Multi-Color LED Square Signal Tower Light	SG – 70ST5	   
	Semicircular Side Mount LED Signal Tower Light	AUS – L / LF	   
Warning Light	Bulb Steady/ Flashing Warning Light	AUW – 80B / BF	  
		AUW – 100B / BF	  
	Bulb Revolving Warning Light	AUW – R100	      
		AUW – R125	       
		AUW – R125L	       
		AUW – R150S	  
		AUW – R180S	 
		AUW – L60B / L60BF	  
	LED Warning Light	AUW – L80	      
		AUW – L100	       
		AUW – L125	         
		AUW – L125L	        
		AUW – L150S	   
		AUW – L / LF40	   
		AUW – CL100/CL125/CL125L	       
	Warning Light & Electronic Horn Combination	AUHW – L100	      

LED Signal Tower Light



※ Silver color available



		LED Signal Tower Light			
Type		AUT-L	AUT-LF	AUTN-L	AUTN-LF
Bulb	Steady	•		•	
	Flashing		•		•
Voltage		AC110V ~ AC220V DC12V / DC24V		AC110V ~ AC220V DC12V / DC24V	
Material		Lens – GPPS Body – ABS / Reflector – PC / Pole – AI		Lens – Optical expansion PC Body – ABS / Reflector – PC / Pole – AI	
Output		Power type / Contact type		Power type / Contact type	
Layers		1 – 5 layers		1 – 5 layers	
Dimensions (mm)	Outdia	Ø58		Ø58	
	Height	410 mm ~ 576 mm (mounted on SH20)		410 mm ~ 576 mm (mounted on SH20)	
Sound volume		Max. 85 dB		Max. 85 dB	
Color change by layer		Available		Available	
Mounting method		Horizontal (SH20,SH08,SH04) / Vertical (SV20,SV06) / Nut (SN20,SN06) / Direct connection (G) / Direct vertical (DV) / Adjustable Angle (AP20,AP06)			
Customization		Buzzer / Melody / Pole length selection / Horizontal type + Magnet attachment			
Page		p.08		p.09	

Ethernet / Device Net / USB LED / Connector / Ø45M Modular / Ø40 Signal Design Tower Light



		Ethernet	Device Net	USB	Connector	Ø45 Modular	LED Ø40
Type		AUT-EN	AUT-DN	AUT-U	AUT-CO	AUT-45M	AUT-40
Bulb	Steady		•	•	•	•	•
	Flashing	•		•		•	•
Voltage		AC110~220V / DC24V	DC24V	DC5V	DC12V ~ 24V	AC110~220V / DC12~24V	DC24V
Material		Lens- GPPS / Body - ABS Reflector - PC / Pole - AI	Lens-GPPS Body-ABS / Reflector-PC	Lens-GPPS/ Body-ABS/ Reflector-PC/Pole-AI			Lens - PC Body - PC
Layers		1~4 layers	1~5 layers				3, 5 layers
Dimensions (mm)	Outdia	Ø58				Ø45	Ø40
	Height	410mm ~ 534.5mm*	210.5mm ~ 376.5mm*	410mm ~ 576mm*	305mm ~ 467mm*	433mm ~ 593mm*	260mm / 330mm*
Buzzer volume		Max. 85dB	Max. 90dB	Max. 85dB	Max. 90dB	Max. 85dB	Max. 90dB
Color change by layer		Available					Unavailable
Mounting method		Horizontal (SH20,SH08,SH04) Vertical (SV20,SV06) Nut type (SN20,SN06) Direct (G) / Direct vertical (DV) Adjustable Angle (AP20,AP06)	Exclusive bracket	Horizontal (SH20,SH08,SH04) Vertical (SV20,SV06) Nut type (SN20,SN06) Direct (G) / Direct vertical (DV) Adjustable Angle (AP20,AP06)	Vertical (SV06)	Horizontal (SH20,SH08,SH04) Vertical (SV20,SV06) Nut type (SN20,SN06) Adjustable Angle (AP20,AP06)	Exclusive bracket Direct (G)
Sound		1buzzer, 3 siren sounds	Buzzer	Buzzer	Buzzer	Melody / Alarm	Buzzer
Page		p.11	p.12	p.13	p.14	p.15	p.16

* SH20 Standard type

AUT - L / LF Series

LED Steady / Flashing Signal Tower Light



AUT- L / AUT- LF



External volume adjustment

- LED Steady / Flashing type Signal Tower Light
- Excellent radiant effect achieved using special vacuum metallizing reflector together with high luminance LED
- Operators can change color of each layer
- Built-in 8 melodies and notification sounds (basic 4 notes)
- Volume can be adjusted from the outside (Max. 85dB)
- Mounting pole (length, type) are selectable (default SH20)
- Magnet mounted type is available for horizontal pole (SH)
- External diameter : Ø58
- Material : Lens [GPPS], Body [ABS], Reflector [PC], Pole [Al]
- Operating Temperature : -25 ~ 50°C (freezing free)
- ※ Default wire length : 1m
- ※ Use contact-type products when extending more than 10m cable

AUT-L / AUT-LF

Type	L	Voltage	Current		Weight	Color
			LED	Audible Options		
AUT-L Steady type	1	AC110~220V	0.013A	15mA (AC)	348g (AC)	● Red(R)
		DC12V	0.04A		312g (DC)	
		DC24V	0.05A			
	2	AC110~220V	0.025A	15mA (AC)	385g (AC)	● Red(R) ● Green(G)
		DC12V	0.08A		349g (DC)	
		DC24V	0.10A			
	3	AC110~220V	0.037A	210mA (DC12V)	422g (AC)	● Red(R) ● Yellow(Y) ● Green(G)
		DC12V	0.110A		386g (DC)	
		DC24V	0.135A			
	4	AC110~220V	0.049A	170mA (DC24V)	459g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
		DC12V	0.14A		423g (DC)	
		DC24V	0.17A			
	5	AC110~220V	0.061A	170mA (DC24V)	496g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)
		DC12V	0.170A		460g (DC)	
		DC24V	0.205A			
AUT-LF Flashing type	1	AC110~220V	0.013A	15mA (AC)	388g (AC)	● Red(R)
		DC12V	0.065A		332g (DC)	
		DC24V	0.065A			
	2	AC110~220V	0.026A	15mA (AC)	425g (AC)	● Red(R) ● Green(G)
		DC12V	0.130A		369g (DC)	
		DC24V	0.130A			
	3	AC110~220V	0.385A	210mA (DC12V)	462g (AC)	● Red(R) ● Yellow(Y) ● Green(G)
		DC12V	0.180A		406g (DC)	
		DC24V	0.185A			
	4	AC110~220V	0.051A	170mA (DC24V)	499g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
		DC12V	0.23A		443g (DC)	
		DC24V	0.24A			
	5	AC110~220V	0.0635A	170mA (DC24V)	536g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)
		DC12V	0.28A		480g (DC)	
		DC24V	0.295A			

User Order Specifications

Warning sound	CH	Audible Option	Tone
AA Alarm	1	Alarm 4 sounds	beep ~ beep ~ beep
	2		Ding Dong
	3		beep-ee
	4		beep beep beep beep
AM Melody	1	Melody 4 sounds	Fur Elise
	2		Home Sweet Home
	3		The Magic Flute
	4		Piano Sonatas

AUTN - L / LF Series

LED Steady / Flashing Signal Tower Light



AUTN-L / AUTN-LF



Using PC Light Diffusion Lens

Product Features

- Using PC light diffusion lenses, light is subtle and luxurious.
- User Order Specifications Same as AUT-L / LF Series.

- LED Steady / Flashing type Signal Tower Light
- Excellent radiant effect achieved using special vacuum metallizing
- Operators can change color of each layer
- Apart from the standard buzzer, 8 different melodies can be installed
- For melody / Alarm type, different sounds can be applied to each of up to 4 layers
- Volume can be adjusted from the outside (Max. 85dB)
- Mounting pole (length, type) are selectable (default SH20)
- External diameter : Ø58
- Material : Lens [Optical expansion PC], Body [ABS], Reflector [PC], Pole [Al]
- Operating Temperature : -25 ~ 50°C (freezing free)
- ※ Default wire length : 1m
- ※ Use contact-type products when extending more than 10m cable

AUTN-L / AUTN-LF

Type	L	Voltage	Current		Weight	Color
			LED	Audible Options		
AUTN-L Steady type	1	AC110~220V	0.0125A	15mA (AC)	348g (AC)	● Red(R)
		DC12V	0.04A		312g (DC)	
		DC24V	0.05A			
	2	AC110~220V	0.025A	210mA (DC12V)	385g (AC)	● Red(R) ● Green(G)
		DC12V	0.08A		349g (DC)	
		DC24V	0.1A			
	3	AC110~220V	0.037A	170mA (DC24V)	422g (AC)	● Red(R) ● Yellow(Y) ● Green(G)
		DC12V	0.11A		386g (DC)	
		DC24V	0.135A			
	4	AC110~220V	0.049A	15mA (AC)	459g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
		DC12V	0.14A		423g (DC)	
		DC24V	0.17A			
AUTN-LF Flashing type	1	AC110~220V	0.013A	15mA (AC)	388g (AC)	● Red(R)
		DC12V	0.065A		332g (DC)	
		DC24V	0.065A			
	2	AC110~220V	0.026A	210mA (DC12V)	425g (AC)	● Red(R) ● Green(G)
		DC12V	0.13A		369g (DC)	
		DC24V	0.13A			
	3	AC110~220V	0.385A	170mA (DC24V)	462g (AC)	● Red(R) ● Yellow(Y) ● Green(G)
		DC12V	0.18A		406g (DC)	
		DC24V	0.185A			
	4	AC110~220V	0.051A	15mA (AC)	499g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
		DC12V	0.23A		443g (DC)	
		DC24V	0.24A			
	5	AC110~220V	0.0635A	210mA (DC12V)	536g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)
		DC12V	0.28A		480g (DC)	
		DC24V	0.295A			

AUT / AUTN - L/LF Series

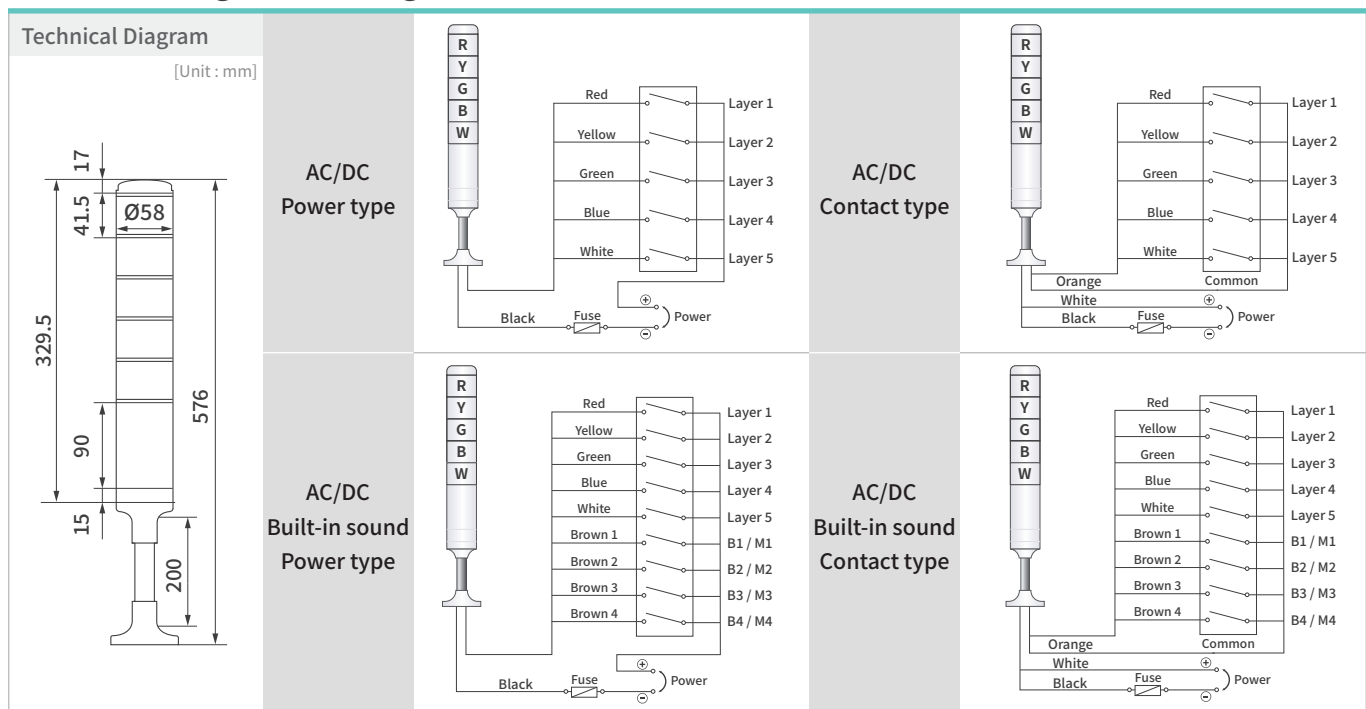
LED Steady / Flashing Signal Tower Light



Nomenclature

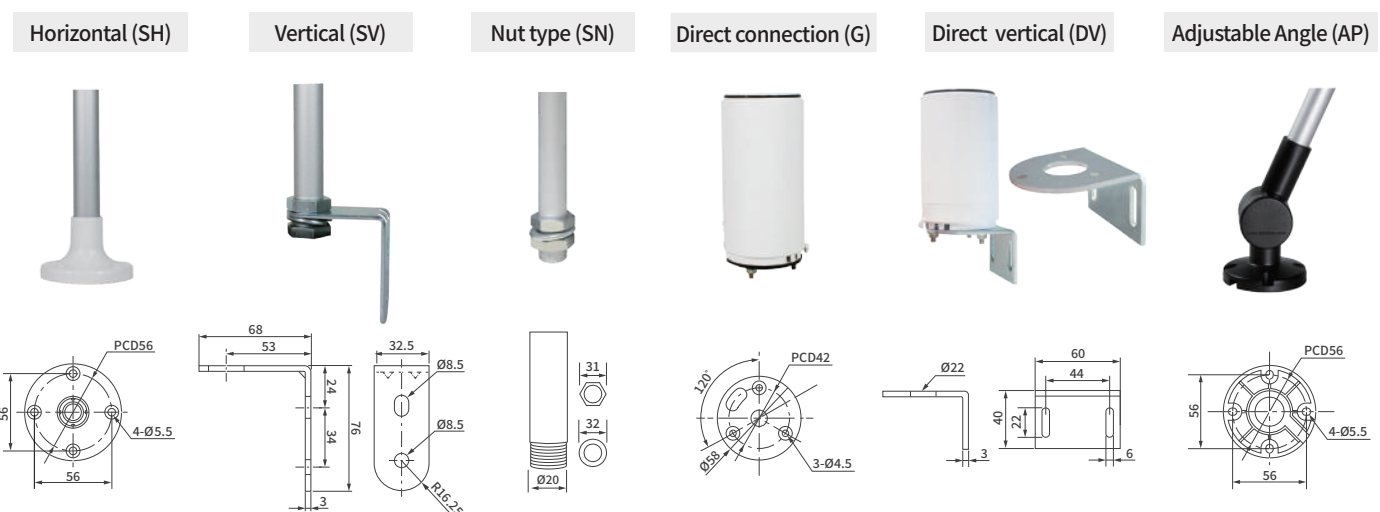
	①	②	③	-	④	-	⑤	-	⑥
	Type	Layers	Body Color		Audible Option		Voltage		Mounting accessories
AUT	L : Steady	1 : 1 layer	No mark : Ivory		No mark : None		110/220 :		SH20 : Horizontal 200mm
AUTN	LF : Flashing	2 : 2 layer	S : Silver		AA : Alarm		AC110 ~ 220V		SH08 : Horizontal 80mm
		3 : 3 layer			AM : Melody		24 : DC24V		SH04 : Horizontal 40mm
		4 : 4 layer					12 : DC12V		SV20 : Vertical 200mm
		5 : 5 layer							SV06 : Vertical 60mm
									SN20 : Nut type 200mm
									SN06 : Nut type 60mm
									G : Direct connection
									DV : Direct vertical
									AP20 : Adjustable Angle 200mm
									AP06 : Adjustable Angle 60mm

Technical Diagram & Wiring Instructions



Mounting accessories

(unit : ±1mm)



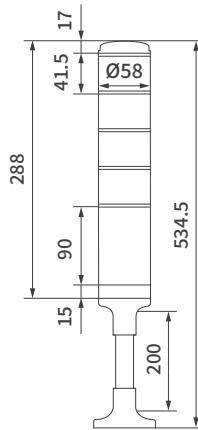


- A Signal Tower controlled by connecting internet or LAN
- Control with computer web browser or applications
- Can be used for remote control
- Separate utility provided to set IP address, subnet mask, and gateway
- Maximum 4 layers of LED flashing type
- 4 basic sounds (1 buzzer, 3 siren sounds) are provided
- Selectable mounting pole (length, type) (default SH20)
- Magnet mount available when horizontal pole (SH) is ordered as a user additional option
- Outdia : Ø58 / Default LAN length : 3m / Max. 85dB
- Material : Lens [GPPS], Body [ABS], Reflector [PC], Pole [Al]
- Operating Temperature : -25 ~ 50°C (freezing free)

AUT-EN

Technical Diagram

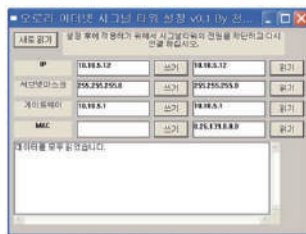
[Unit : mm]



Type	Layers	Voltage	Weight	Audible Options	Color
AUT-EN Ether Net	1	AC110~220V	505g	1 buzzer sounds Alarm	● Red(R)
		DC24V	414g		
	2	AC110~220V	542g		● Red(R) ● Green(G)
		DC24V	451g		
	3	AC110~220V	579g	3 siren sounds Urgent	● Red(R) ● Yellow(Y) ● Green(G)
		DC24V	488g		
	4	AC110~220V	616g	Emergency Fire	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
		DC24V	525g		

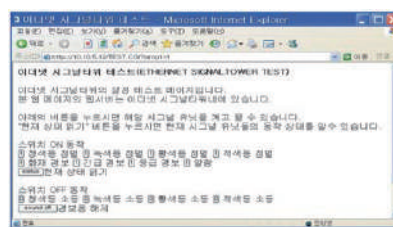
How to Use & Connecting Diagram

Setup tool



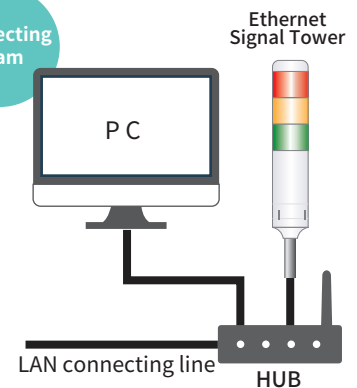
- It sets IPs, subnet masks, and gateways for signal towers.

Webpage screen for testing



- Signal Tower contains web server and web page, and the operation can be tested with web browser.

Connecting diagram



Nomenclature

AUT - EN -	① Layers	② Body Color	-	③ Voltage	-	④ Mounting accessories
	1 : 1 layer	No mark : Ivory		110/220 :		SH20 : Horizontal 200mm SN20 : Nut type 200mm
	2 : 2 layer	S : Silver		AC110 ~ 220V		SH08 : Horizontal 80mm SN06 : Nut type 60mm
	3 : 3 layer			24 : DC24V		G : Direct connection DV : Direct vertical
	4 : 4 layer					AP20 : Adjustable Angle 200mm AP06 : Adjustable Angle 60mm
						SV20 : Vertical 200mm SV06 : Vertical 60mm



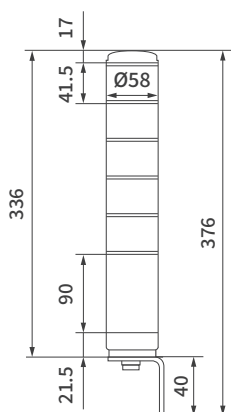
- Signal Tower Light only for Device Net
- Direct connection to network without separated I/O terminal for device net
- Convenient to install and easy to maintain due to the smaller installation space and reduced wires
- Controlled by PLC device net master
- Set the address (MAC ID) and communication speed with built in DIP switch
- Supports all communication speeds (125kbps, 250kbps, 500kbps) in device net, and also supports automatic speed setting for convenient use
- External diameter : Ø58 / Max. 90dB
- Material : Lens [GPPS], Body [ABS], Reflector [PC]
- Operating Temperature : -25 ~ 50°C (freezing free)

AUT- DN

Type	Layers	Voltage	Height	Weight	Color
AUT-DN	1	DC24V	210.5mm	368g	● Red(R)
	2		252mm	405g	● Red(R) ● Green(G)
	3		293.5mm	442g	● Red(R) ● Yellow(Y) ● Green(G)
	4		335mm	479g	● Red(R) ● Green(G) ● Yellow(Y) ● Blue(B)
	5		376.5mm	516g	● Red(R) ● Blue(B) ● Yellow(Y) ● White(W) ● Green(G)

Technical Diagram

Unit : mm



Features

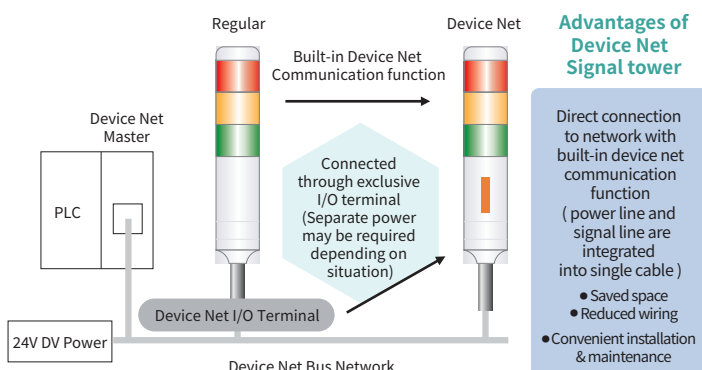
- Built-in buzzer, Steady type and DC24V by default
- Color moving by layer is possible
- Buzzer function provided in addition to up to 5 colors of LED unit per Signal Tower.
- Mount using the exclusive bracket

Nomenclature

AUT - DN -	① Layers	② Body Color
	1 : 1 layer 2 : 2 layer 3 : 3 layer 4 : 4 layer 5 : 5 layer	No mark : Ivory S : Silver

? What is Device Net?

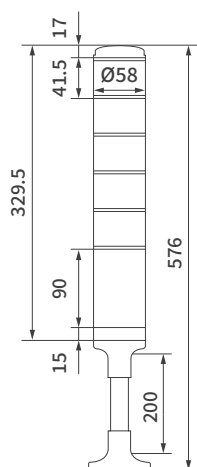
- DeviceNet is a fieldbus designed to facilitate communication among control devices such as PLCs, PCs, sensors, and actuators. It helps reduce wiring costs, minimizes the potential for wiring errors, simplifies maintenance, and supports real-time control. Based on CAN technology, DeviceNet offers strong resistance to electrical noise. Because it supports interoperability among devices from different vendors, it enables more cost-effective system integration. Devices can be added or removed from the network without shutting down the entire system. As an open-style fieldbus, it is suitable for a wide range of industrial applications.





Technical Diagram

Unit : mm



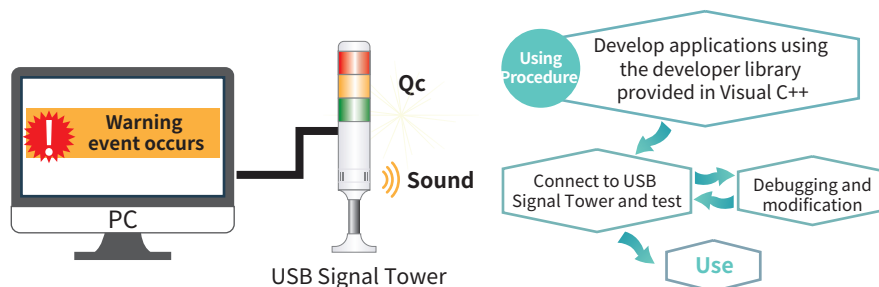
- Signal Tower connected to USB port and controlled by programs on PC
- All signals and power are supplied together through a single USB cable (voltage DC5V)
- Can be used on a host that support USB 1.1 or higher
- Can be utilized for a range of purposes as a regular PC accessory
- Basic buzzer is embedded along with up to 5 layers and 5 colors of LED unit per a Signal Tower depending on the model
- Selectable mounting pole (length, type) (default SH20)
- Magnet mounted type is available with the optional horizontal pole (SH)
- External diameter : Ø58 / Default LAN length : 3m / Max. 85dB
- Material : Lens [GPPS], Body [ABS], Reflector [PC], Pole [Al]
- Operating Temperature : -25 ~ 50°C (freezing free)

AUT- U

Type	Layers	Voltage	Height	Weight	Color
AUT-U	1	DC5V	410mm	380g	● Red(R)
	2		451.5mm	419g	● Red(R) ● Green(G)
	3		493mm	458g	● Red(R) ● Yellow(Y) ● Green(G)
	4		534.5mm	497g	● Red(R) ● Green(G) ● Yellow(Y) ● Blue(B)
	5		576mm	536g	● Red(R) ● Blue(B) ● Yellow(Y) ● White(W) ● Green(G)

Use

- To inform of computer process status
- To provide warning signals to many people at a long distance without passing through a monitor
- For any warning message displayed on a computer



Nomenclature

AUT - U -	①	②	-	③
	Layers	Body Color		Mounting accessories
	1 : 1 layer	No mark : Ivory	SH20 : Horizontal 200mm	SN20 : Nut type 200mm
	2 : 2 layer	S : Silver	SH08 : Horizontal 80mm	SN06 : Nut type 60mm
	3 : 3 layer		SH04 : Horizontal 40mm	G : Direct connection
	4 : 4 layer		SV20 : Vertical 200mm	DV : Direct vertical
	5 : 5 layer		SV06 : Vertical 60mm	AP20 : Adjustable Angle 200mm
				AP06 : Adjustable Angle 60mm



- Connector Type Signal Tower Light
- 1 basic sounds (buzzer) are provided
- DC voltage models , available from DC12 to 24V
- Maximum 5 layers of LED Steady type
- Mounting accessories SV06 pole Available exclusively
- External diameter : Ø58 / Max. 90dB
- Cable : M12 4PIN Cable (Male) / Cable length : 350mm
- The number of Cable : 1L: 1EA / 2L: 2EA / 3L: 2EA / 4L: 3EA / 5L: 3EA
- Material : Lens [GPPS], Body [ABS], Reflector [PC], Pole [Al]
- Operating Temperature : -25 ~ 50°C (freezing free)



Mount using
the SV06 pole only



M12 4PIN Cable
(Male)

AUT- CO

TYPE	Layer	Voltage	LED Current	Buzzer Current	Height	Weight	Color
AUT-CO	1	DC12V ~ DC24V	77mA	37 mA	305mm	390g	● Red(R)
	2		143mA		348mm	469g	● Red(R) ● Green(G)
	3		220mA		381mm	504g	● Red(R) ● Yellow(Y) ● Green(G)
	4		296mA		424mm	582g	● Red(R) ● Green(G) ● Yellow(Y) ● Blue(B)
	5		352mA		467mm	622g	● Red(R) ● Blue(B) ● Yellow(Y) ○ White(W) ● Green(G)

Product Specifications

- Built-in buzzer & Steady type by default
- Voltage DC12 ~ 24V Only
- Buzzer function provided in addition to up to 5 colors of LED unit per Signal Tower
- Mount using the SV06 pole only
- With M12 PIN Cable

Nomenclature

AUT - CO -	① Layers	② Body Color
	1 : 1 layer 2 : 2 layer 3 : 3 layer 4 : 4 layer 5 : 5 layer	No mark : Ivory S : Silver

AUT - 45M Series

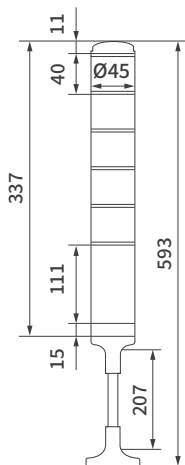
45mm LED Steady / Flashing type Signal Tower Light



Modular construction for easy assembly with out any tools

Technical Diagram

Unit : mm



- ⊙ Modular LED signal tower light with an external diameter of 45mm
- ⊙ Modular construction for easy assembly with out any tools
- ⊙ AUT-45M series is available as pre-assembled with the flexibility to customize the color layer as needed
- ⊙ Built-in 8 melodies and notification sounds (basic 4 notes)
- ⊙ Volume can be adjusted from the outside (Max. 85dB)
- ⊙ Material : Lens [GPPS], Body [ABS], Reflector [PC], Pole [Al]
- ⊙ Operating Temperature : -25°C ~ 50°C (freezing free)
- ※ Default wire length : 1m
- ※ Use contact-type products when extending more than 10m cable

AUT-45M

Type	L	Voltage	Current		Weight	Color
			LED	Audible Options		
AUT-45M Steady type	1	DC12V DC24V	0.092A 0.064A	0.068A (AC) 0.272A (DC12V) 0.233A (DC24V)	310g (DC)	● Red(R)
	2	DC12V DC24V	0.140A 0.125A		330g (DC)	● Red(R) ● Green(G)
	3	DC12V DC24V	0.186A 0.188A		360g (DC)	● Red(R) ● Yellow(Y) ● Green(G)
	4	DC12V DC24V	0.232A 0.249A		390g (DC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
	5	DC12V DC24V	0.277A 0.315A		420g (DC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)
AUT-45M Steady/ Flashing type	1	AC110~220V	0.024A	0.068A (AC) 0.272A (DC12V) 0.174A (DC24V)	320g (AC)	● Red(R)
		DC12V DC24V	0.084A 0.044A		310g (DC)	
	2	AC110~220V	0.033A		350g (AC)	● Red(R) ● Green(G)
		DC12V DC24V	0.122A 0.058A		330g (DC)	
	3	AC110~220V	0.042A		380g (AC)	● Red(R) ● Yellow(Y) ● Green(G)
		DC12V DC24V	0.158A 0.076A		360g (DC)	
	4	AC110~220V	0.052A		400g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
		DC12V DC24V	0.169A 0.086A		390g (DC)	
	5	AC110~220V	0.062A		430g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)
		DC12V DC24V	0.178A 0.095A		420g (DC)	

Nomenclature

AUT-45M-	①	②	③	-	④	-	⑤	-	⑥
	Type	Layers	Body Color		Audible Option		Voltage		Mounting accessories
	L : Steady	1 : 1 layer	No mark : Ivory		No mark : None		110/220 :		SH20 : Horizontal 200mm SN20 : Nut type 200mm
	LF : Steady / Flashing	2 : 2 layer	S : Silver		AM : Melody		AC110 ~ 220V		SH08 : Horizontal 80mm SN06 : Nut type 60mm
		3 : 3 layer			AA : Alarm		12 : DC12V		SH04 : Horizontal 40mm
		4 : 4 layer					24 : DC24V		SV20 : Vertical 200mm
		5 : 5 layer							SV06 : Vertical 60mm
									AP20 : Adjustable Angle 200mm
									AP06 : Adjustable Angle 60mm

AUT - 40L / LF Series

Ø40 LED Steady / Flashing Signal Design Tower Light



- LED Steady / Flashing signal tower Light
- High brightness LEDs are placed in all four directions and transparent PC cover is used for excellent divergence
- This can be wired with transistor(PNP Type), so it can be used in PLC, etc
- 5 body color options (Black, Yellow, Ivory, Orange and Silver)
- Wiring cable withdrawal type, individual color cannot be changed
- External diameter : Ø40 / Max. 90dB
- Installation bolt : 4mm, Direct connection
- Material : Lens [PC], Body [PC]
- Operating temperature : -25 ~ 50°C (freezing free)

AUT- 40

Type	Layer	Voltage	Height	Weight	Color
AUT-40-3	3	DC24V	260mm	195 g	(1 Layer) ● Red (2 Layer) ● Yellow (3 Layer) ● Green
AUT-40-5	5		330mm	230 g	(1 Layer) ● Red (4 Layer) ● Blue (2 Layer) ● Yellow (5 Layer) ○ White (3 Layer) ● Green

Technical Diagram & Wiring Instructions

Technical Diagram [Unit : mm]		Steady / Flashing / Alarm
3 Layer	5 Layer	

Nomenclature

AUT - 40 -	①	②	③	- ④ -	⑤
	Type	Layers	Body Color	Audible Option	Voltage
	L : Steady LF : Flashing	3 : 3 Layers 5 : 5 Layers	I : Ivory B: Black O: Orange Y: Yellow S : Silver	AB : Buzzer	24 : DC24V

AUT - 50 Series

LED 50 Aluminum body Tower Light



- ⊙ Features a Elaborate structure and fine design
- ⊙ Excellent brightness by using high luminance LED
- ⊙ LED's ultra-long life characteristics allow stable and continuous use
- ⊙ Provide a even illumination by widely difusing lights
- ⊙ Structural design for excellent heat resistance performance
- ⊙ Color : Red, Yellow, Green
- ⊙ Voltage : DC24V
- ⊙ Power consumption : 16W
- ⊙ External diameter : Ø50 / Max. 85dB
- ⊙ Material : Body [ABS], Globe [PC]
- ⊙ Operating Temperature : -20 ~ 45°C (freezing free)



AUT- 50

MODEL	Type	Output	Input current	Sound volume	Color
AUW-L50	Steady type	Buzzer(AB)	12~14mA	Max. 85dB	(1 Layer) ● Red (2 Layer) ● Yellow (3 Layer) ● Green

Technical Diagram & Wiring Instructions

Technical Diagram	Wiring Instructions
[Unit : mm]	

Nomenclature

①	②	③	-	④	-	⑤
Type	Layers	Body Color		Audible Option		Voltage
AUT - 50 -	L : Steady	3 : 3 Layers	S : Silver	AB : Buzzer		24 : DC24V

70ST5 Series

Multi-Color LED Square Signal Tower Light



- An economical model that transmits five colors of signals with one stage of a square tower light
 - High-brightness LED light sources provide excellent visibility even in dark places
 - Aluminum square profile makes the appearance beautiful
 - Color and buzzer indicating the condition or danger of the machine
 - LED Color : red, yellow, green, blue, white
 - Rated voltage : AC110 ~ 220V / DC24V
 - Power consumption : 16W
 - Indicating operation : Steady / Flashing
 - Sound: buzzer sound < intermittent or continuous sound / volume 1m Max. 90dB at 1m
 - Materials : Body [Al] / Bracket [ABS] / Lens [PC] / Pole [Al]
 - Operating Temperature : -20°C ~ 70°C (freezing free)
- * Nut type Size – 70 X 70 X 332(mm)

SG-70ST5

Size (W X L X H)	Mounting Size	Mounting hole
70mm X 70mm X 283mm	60.8mm X 60.8mm	Ø 4.5

Technical Diagram & Wiring Instructions

Technical Diagram	AC Wiring Instructions	DC Wiring Instructions
[Unit : mm]		

※ No DC polarity

Nomenclature

①	②	③	④	⑤
Size	Name	LED color	Voltage	Type
SG - 70 : 70X70mm	ST : Signal Tower	5 : 5Color (R, Y, G, B, W)	220A : AC110~220V 24D : DC24V	ON : Steady OF : Flashing



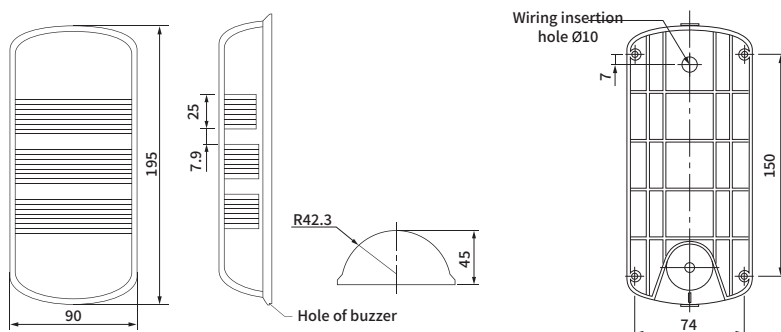


- Semicircular wall attachment with small protrusions to minimize damage with slim protrusions
- Clear color with internal transparent lens and external colored diffusion lens
- IP55 structure allows outdoor use
- Installation of buzzer holes facing down
- There are two types of the main body, silver or regular ivory
- Two-tone buzzer: long (beep-beep-beep-beep-beep-) / Max. 85dB
- Material : Lens [PC] , Body [ABS] , Cover [PC]
- Operating Temperature : -20 ~ 50°C (freezing free)

Appearance diagram

Unit : mm

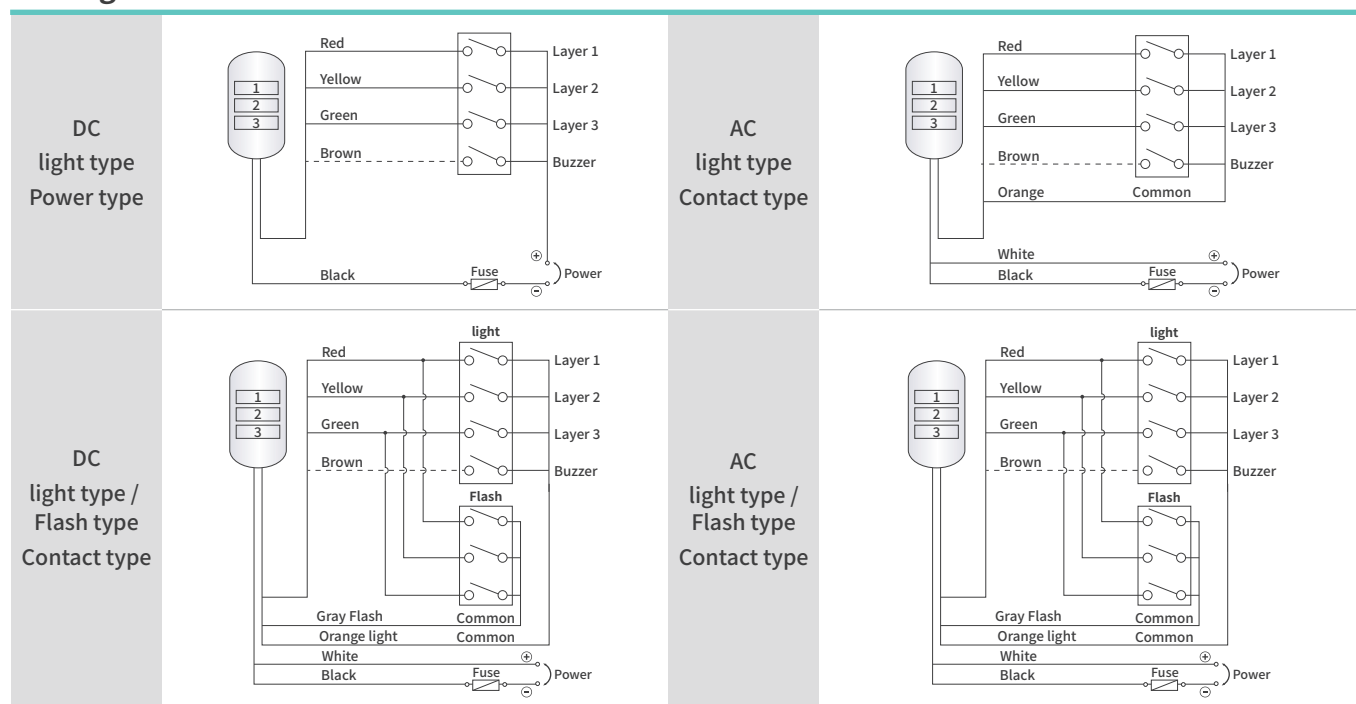
Processing chart



Nomenclature

AUS -	① Type	② Layers	③ Body Color	- ④ Audible Option	- ⑤ Voltage
	L : Steady LF : Steady/Flashing	1 : 1 layer 2 : 2 layer 3 : 3 layer	No mark : Beige S : Silver	No mark : None AB : Buzzer	110/220 : AC110~220V 12/24 : DC12~24V

Wiring Instructions



Bulb



		Small Size		Small Size	Standard Size			Large Size
Type		Steady / Flashing Warning Light		Revolving Warning Light				
Model		AUW-B/BF80	AUW-B/BF100	AUW-R100	AUW-R125	AUW-R125L	AUW-R150S	AUW-R180S
Voltage		AC110V / AC220V / DC12V / DC24V		AC110V / AC220V / DC12V / DC24V				
Material		Globe – GPPS / Body - ABS		Globe – GPPS / Body - ABS			Globe – GPPS / Body – SUS 304	
dimensions (mm)	Diameter	Ø83	Ø104	Ø104	Ø125	Ø125	Ø155	Ø180
	Height	143	157	132	161	208	210	219
Volume		No audible option		Max. 80dB	Max. 80dB	Max. 90dB	No audible option	No audible option
Customization		small Magnet		big Magnet / 3 Notes	big Magnet / 3 Notes	3 Notes	high luminance (Double reflector)	
Page		p.21	p.21	p.23	p.23	p.24	p.24	p.25

LED



		Small Size		Small Size		Standard Size							
Type		Steady / Flashing Warning Light		Multiple Function LED Warning Light									
Model		AUW-L/LF60		AUW-L80		AUW-L100		AUW-L125		AUW-L125L		AUW-L150S	
Voltage		AC110V / AC220V / DC12V / DC24V											
Material		Globe – GPPS / Body - ABS						Globe – PC / Body - ABS				Globe – GPPS Body – SUS 304	
dimensions (mm)	Diameter	Ø66		Ø83		Ø103		Ø125		Ø125		Ø155	
	Height	119		143		132		161		208		210	
Volume		No audible option		Max. 80dB		Max. 80dB		Max. 80dB		Max. 90dB		No audible option	
Customization				small Magnet / 3 Notes		small Magnet / 3 Notes		High luminance big Magnet / 3 Notes		High luminance 3 Notes		High luminance	
Page		p.27		p.27		p.27		p.28		p.28		p.29	

LED



			Small Size	Standard Size		
Type		Steady / Flashing Warning Light	Caution LED Warning Light			Warning Light & Electronic Horn Combination
Model		AUW-L/LF40	AUW-CL100	AUW-CL125	AUW-CL125L	AUW-L100
Voltage		DC24V	AC110V ~ AC220V / DC12V / DC24V			AC110V ~ AC220V / DC12V / DC24V
Material		Globe – PC Body - ABS	Globe – GPPS (Flat:PC) Body - ABS	Globe – PC / Body - ABS		Globe – PC / Body – ABS Reflector [Heat resistant type ABS]
dimensions (mm)	Diameter	Ø85	Ø103	Ø125	Ø125	Ø118.5
	Height	47.1	157	161	208	222
	Depth	52.3	—	—	—	—
Volume		Max. 85dB	Max. 80dB	Max. 80dB	Max. 80dB	Max. 105dB
Customization		buzzer (1 Notes)	small Magnet / 3 Notes	big Magnet / 3 Notes	3 Notes	3 Notes
Page		p.30	p.31	p.31	p.31	p.32



Nomenclature

AUW -	①	②	③	④
	Type	Diameter	Body Color	Voltage
	B : Bulb Steady	80 : Ø80	No mark : Black	220 : AC220V
	BF : Bulb Flashing	100 : Ø100	S : Silver	110 : AC110V
				24 : DC24V
				12 : DC12V



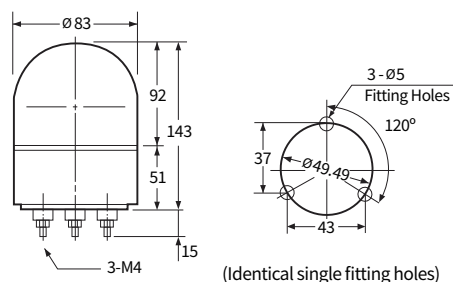
AUW-B/BF80



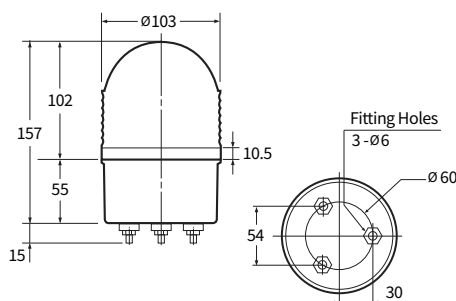
AUW-B/BF100

Technical Diagram

Unit: mm



AUW-80B / BF



AUW-100B / BF

Bulb Small Steady / Flashing Warning Light

Common Specifications

- ⊙ A steady / flashing indicating lamp with a relatively simple inner structure that is easy to maintain
- ⊙ Can be used to indicate device malfunction, material supply & stop signals, and signal transmission in automated line
- ⊙ No audible option
- ⊙ Material: Globe [GPPS], Body [ABS]
- ⊙ Operating Temperature: -25 ~ 50°C

AUW-80B / AUW-80BF

- ⊙ Ø80mm, small bulb Steady / Flashing Warning Light

Model	Voltage	Current	Bulb	Weight	Color
AUW-80B	AC110V	0.07(A)	110V 10W	200g	Red(R)
	AC220V	0.05(A)	220V 10W	200g	Yellow(Y)
	DC12V	0.83(A)	12V 10W	200g	Green(G)
	DC24V	0.47(A)	24V 10W	200g	Blue(B)
AUW-80BF	AC110V	0.07(A)	110V 10W	209g	Red(R)
	AC220V	0.06(A)	220V 10W	209g	Yellow(Y)
	DC12V	0.77(A)	12V 10W	209g	Green(G)
	DC24V	0.48(A)	24V 10W	209g	Blue(B)

AUW-100B / AUW-100BF

- ⊙ Ø100mm, small bulb Steady / Flashing Warning Light

Model	Voltage	Current	Bulb	Weight	Color
AUW-100B	AC110V	0.06(A)	110V 10W	327g	Red(R)
	AC220V	0.03(A)	220V 10W	327g	Yellow(Y)
	DC12V	0.28(A)	12V 10W	327g	Green(G)
	DC24V	0.26(A)	24V 10W	327g	Blue(B)
AUW-100BF	AC110V	0.07(A)	110V 10W	336g	Red(R)
	AC220V	0.06(A)	220V 10W	336g	Yellow(Y)
	DC12V	0.77(A)	12V 10W	336g	Green(G)
	DC24V	0.48(A)	24V 10W	336g	Blue(B)

Nomenclature

	①	②	③	④	⑤
	Type	Diameter	Body Color	Audible Option	Voltage
AUW	R : Revolving	100 : Ø100 125 : Ø125 125L : Ø125 Long body	No mark : Black S : Silver ◀(Black body only)	No mark : None AB : Buzzer AM : Melody AS : Siren AV : Voice (125L only)	220 : AC220V 110 : AC110V 24 : DC24V 12 : DC12V

Common Specifications

Bulb Revolving Warning Light

- Excellent radiant effect using special vacuum metallizing reflector
- Freely adjustable rotation speed with built-in volume switch
- Buzzer siren and melody sounds (Volume Max. 90dB) can be embedded simultaneously with revolving lamp
- The built-in tone is 3 tones (except R150S, R150SH, R180S)
- Can be adjusted between AC110V ↔ 220V using changeover switch in the product
- Microchip-based structure is simple and not affected by external noise
- Operating Temperature : -25 ~ 50°C
- Material : Globe [GPPS], Body [ABS] / SUS 304 (For AUW-R150S, 180S)

Built-in sound specifications		
Output	Audible Options	
Max.80dB (R125L-Max.90dB)	Buzzer AB	Beep~~~Beep Beep ~ Beep ~ Beep Wing Wing Wing
	Melody AM	Fur Elise Home Sweet Home London Bridge is Falling Down
	Siren AS	Urgent Emergency Fire

AUW-R Series

Bulb Revolving Warning Light



AUW-R100

- Ø100mm, small Bulb Revolving Warning Light
- Magnet option & Cigarette lighter plug option (for DC12V only) are available
- Material: Globe [GPPS], Body [ABS]

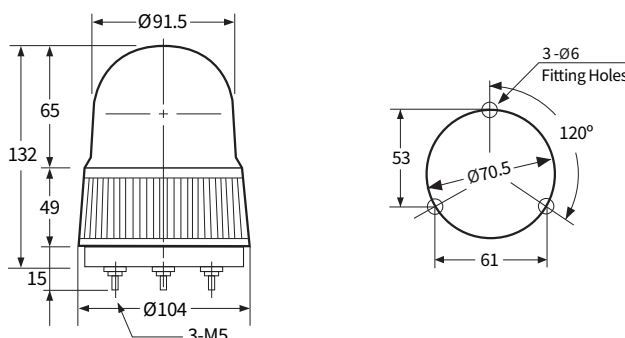


AUW-R100

Model	Voltage	Current	Bulb	Weight	Color
AUW-R100	AC110V	0.09(A)	12V 10W	514g	● Red(R)
	AC220V	0.05(A)	12V 10W	514g	● Yellow(Y)
	DC12V	0.88 (A)	12V 10W	294g	● Green(G)
	DC24V	0.64(A)	24V 10W	294g	● Blue(B)

Technical Diagram

Unit: mm





AUW-R125

AUW-R125

- Ø125mm, standard Bulb Revolving Warning Light
- Magnet option & Cigarette lighter plug (for DC12V only) are available
- Material: Globe [GPPS], Body [ABS]

Model	Voltage	Current	Bulb	Weight	Color
AUW-R125	AC110V	0.11(A)	12V 15W	980g	Red(R)
	AC220V	0.06(A)	12V 15W	980g	Yellow(Y)
	DC12V	1.19(A)	12V 15W	405g	Green(G)
	DC24V	0.74(A)	24V 15W	405g	Blue(B)
					Orange(O)

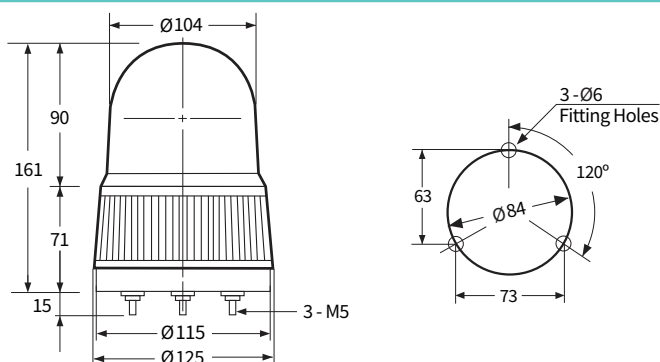
Technical Diagram

Unit: mm



AUW-R125MC

big magnet with
cigar jack option
for vehicle
(DC12V only)



Bracket for built-in tone type



AUW-R125L

- Ø125mm, standard Bulb Revolving Warning Light long body type
- For the embedded buzzer, 3 sounds are provided by default and a bracket is attached at the bottom
- Voice sound (add voice signal function) can be ordered
- Material : Globe [GPPS], Body [ABS]

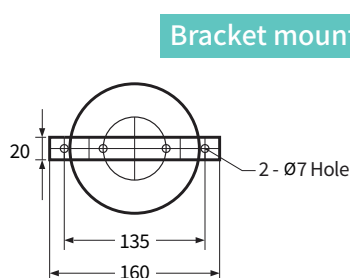
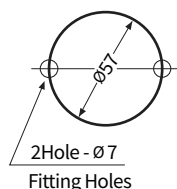
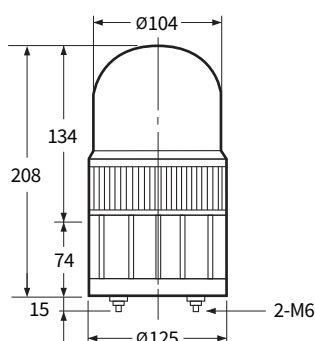
Model	Voltage	Current	Bulb	Weight	Color
AUW-R125L	AC110V	0.11(A)	12V 15W	1124g	Red(R)
	AC220V	0.06(A)	12V 15W	1124g	Yellow(Y)
	DC12V	1.19(A)	12V 15W	547g	Green(G)
	DC24V	0.74(A)	24V 15W	547g	Blue(B)



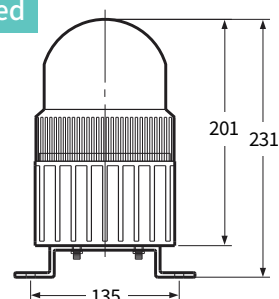
AUW-R125L

Technical Diagram

Unit: mm



Bracket mounted



Nomenclature

AUW -	①	②	-	③
	Type	Diameter		Voltage
	R : Revolving	150S : Ø150 SUS body 150SH : Ø150 SUS body/High luminance 180S : Ø180 SUS body		220 : AC220V 110 : AC110V 24 : DC24V 12 : DC12V



AUW-R150S

AUW-R150S



- Ø150mm, standard Bulb Revolving Warning Light
- Using stainless (SUS304) body, it is strong on impact and excellent corrosion resistance
- Single reflector
- Material : Globe [GPPS], Body [SUS 304]

Model	Voltage	Current	Bulb	Weight	Color
AUW-R150S	AC110V	0.11(A)	12V 15W	1444g	● Red(R)
	AC220V	0.06(A)	12V 15W	1444g	● Yellow(Y)
	DC12V	1.19(A)	12V 15W	882g	● Green(G)
	DC24V	0.74(A)	24V 15W	882g	● Blue(B)



AUW-R150SH
(high luminance)

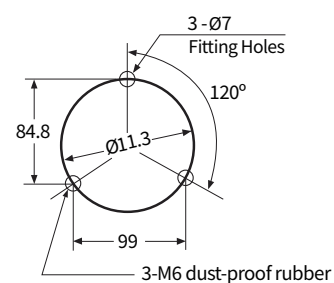
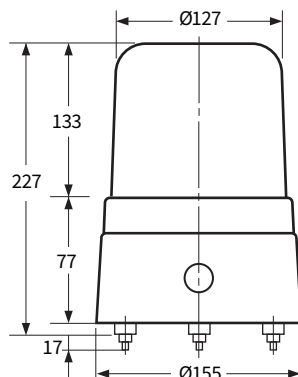
AUW-R150SH

- Ø150mm, standard SUS body High luminance type bulb Revolving Warning Light
- Using stainless (SUS304) body, it is strong on impact and excellent corrosion resistance
- Double reflector

Model	Voltage	Current	Bulb	Weight	Color
AUW-R150SH	AC110V	0.31(A)	12V 35W	1470g	● Red(R)
	AC220V	0.17(A)	12V 35W	1470g	● Yellow(Y)
	DC12V	2.87(A)	12V 35W	908g	● Green(G)
	DC24V	1.62(A)	24V 35W	908g	● Blue(B)

Technical Diagram

Unit: mm





AUW-R180S



AUW-R180S

- ⊙ Ø180mm, standard Bulb Revolving Warning Light
- ⊙ Stainless (SUS304) body offers strong impact resistance and excellent corrosion resistance
- ⊙ Default reflector type is double

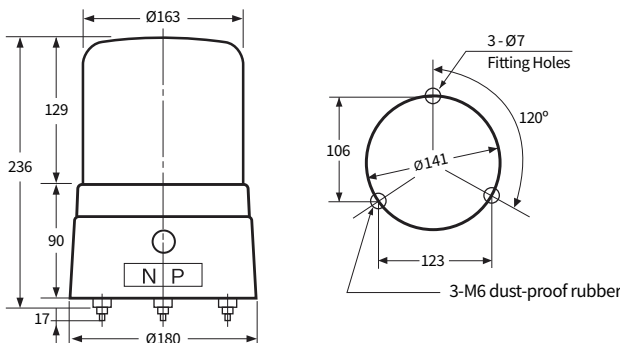
Model	Voltage	Current	Bulb	Weight	Color
AUW-R180S (Double Reflector)	AC110V	0.31(A)	12V 35W	1832g	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
	AC220V	0.17(A)	12V 35W	1832g	
	DC12V	2.87(A)	12V 35W	1266g	
	DC24V	1.62(A)	24V 35W	1266g	

Technical Diagram

Unit: mm



※ Freely adjustable rotation speed with built-in switch

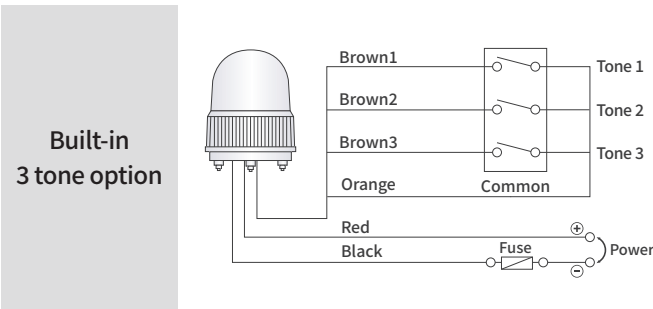
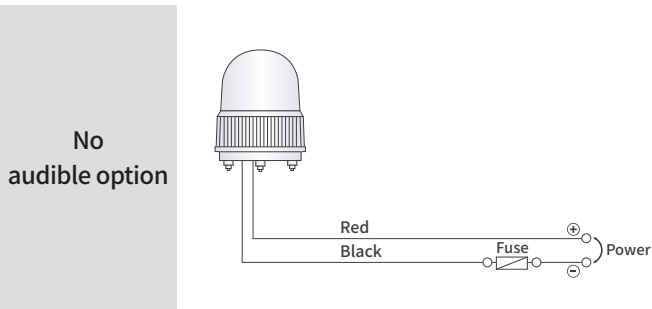


Features of each Model

Model	Diameter	Globe	Body	Audible option	High luminance type	Magnet	Features
AUW - B/BF80	Ø80	GPPS	ABS	X	X	small magnet	
AUW - B/BF100	Ø100	GPPS	ABS	X	X	small magnet	
AUW - R100	Ø100	GPPS	ABS	Available	X	big magnet	
AUW - R125	Ø125	GPPS	ABS	Available	X	big magnet	
AUW - R125L	Ø125	GPPS	ABS Long Body	Available	X	X	MAX.90dB (Voice sound option available)
AUW - R150S	Ø150	GPPS	SUS	X	Available	X	
AUW - R180S	Ø180	GPPS	SUS	X	X	X	

Wiring diagram

Unit: mm



Common Specifications

LED Warning Light

- **AUW-L60** : Steady/Flashing Warning Light, without an embedded buzzer
- Others** : Multiple Function LED Warning Light
Operate 4 kinds of function by dip switches (※See the table below)
- Excellent radiant effect using high luminance LED elements
- Semi-permanent lifespan using electronic circuit board
- Can be adjusted between AC110V ↔ 220V
by adjusting pins on the inner board of the product
- The built-in tone is 3 notes
- Operating Temperature : -25 ~ 50°C
- Material : Globe [GPPS] / [PC] - (L125/L125L/L125LH)
Body [ABS] / [SUS 304] - (L150S/L150SH)

Built-in sound specifications

Output	Audible Options	
Max.80dB (L125L/L125LH -Max.90dB)	Buzzer AB	Beep~~~Beep Beep ~ Beep ~ Beep Wing Wing Wing
	Melody AM	Fur Elise Home Sweet Home London Bridge is Falling Down
	Siren AS	Urgent Emergency Fire

Manual switch to select operation



DIP switches

Operate 4 kinds of function by dip switches
steady / flashing / revolving / revolving-flashing

DIP/SW	1	2	1	2	1	2	1	2
DIP Switch								
ON								
OFF								
Operation								
	Steady		Flashing		Revolving		Revolving/Flashing	

Features of each Model

Model	Globe	Body	Audible option	Magnet	High luminance type
AUW - L/LF60	GPPS	ABS	X	X	X
AUW - L80	GPPS	ABS	Available	small magnet	X
AUW - L100	GPPS	ABS	Available	small magnet	X
AUW - L125	PC	ABS	Available	big magnet	Available
AUW - L125L	PC	ABS	Available	X	Available
AUW - L150S	GPPS	SUS	X	X	Available

LED Warning Light



AUW-L/LF60

Nomenclature

AUW -	① Type	② Diameter	③ Body Color	④ Voltage
	L : LED Steady LF : LED Flashing	60 : Ø60	S : Silver	220 : AC220V 110 : AC110V 24 : DC24V 12 : DC12V

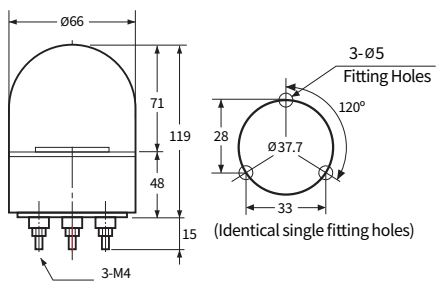
AUW-L60 / AUW-LF60

- Ø60mm, small LED Steady / Flashing Warning Light
- Material: Globe [GPPS], Body [ABS]
- No audible option

Model	Voltage	Current	LED EA	Weight	Color
AUW-L60B AUW-L60BF	AC110V	0.03(A)	16EA	157g	- Red - Yellow - Green - Blue
	AC220V	0.02(A)	16EA	157g	
	DC12V	0.08(A)	16EA	129g	
	DC24V	0.10(A)	16EA	129g	

Technical Diagram

Unit: mm



Nomenclature

AUW -	①	②	③	-	④	-	⑤
	Type	Diameter	Body Color		Audible Option		Voltage
	L : Multiple Function LED	80 : Ø80 100 : Ø100 125 : Ø125 125H : Ø125 High luminance 125L : Ø125 Long body 125LH : Ø125 Long body/ High luminance	No mark : Black S : Silver		No mark : None AB : Buzzer AM : Melody AS : Siren AV : Voice (125L,125LH only)		220 : AC220V 110 : AC110V 24 : DC24V 12 : DC12V



AUW-L80

AUW-L80

- ⊙ Ø80mm, small Multiple Function LED Warning Light
- ⊙ Material: Globe [GPPS], Body [ABS]

Model	Voltage	Current	LED EA	Weight	Color
AUW-L80	AC110V	0.04(A)	24EA	373g	● Red(R)
	AC220V	0.02(A)	24EA	373g	● Yellow(Y)
	DC12V	0.14(A)	24EA	296g	● Green(G)
	DC24V	0.17(A)	24EA	296g	● Blue(B) ● Orange(O)



AUW-L100

AUW-L100

- ⊙ Ø100mm, small Multiple Function LED Warning Light
- ⊙ Magnet option & Cigarette lighter plug (for DC12V only) are available
- ⊙ Material : Globe [GPPS], Body [ABS]

Model	Voltage	Current	LED EA	Weight	Color
AUW-L100	AC110V	0.04(A)	54EA	455g	● Red
	AC220V	0.02(A)	54EA	455g	● Yellow
	DC12V	0.14(A)	54EA	269g	● Green
	DC24V	0.2(A)	54EA	275g	● Blue

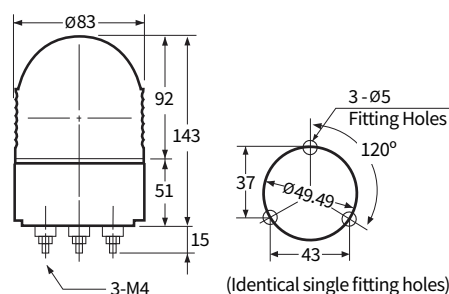
Technical Diagram

Unit: mm

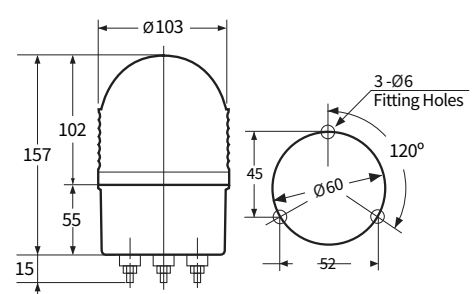


AUW-L100M

AUW-L80



AUW-L100





AUW-L125

AUW-L125

- ⊙ Ø125mm, standard Multiple Function LED Warning Light
- ⊙ 2 type of LED brightness : standard and high luminance
- ⊙ Magnet & Cigarette lighter plug option (for DC12V only) are available
- ⊙ Material : Globe [PC], Body [ABS]

MODEL	Voltage	Current High/Standard	LED EA High/Standard	Weight High/Standard	Color
AUW-L125	AC110V	0.11 / 0.09(A)	90 / 54EA	646g / 623g	● Red(R) ● Orange(O) ● Green(G) ● Blue(B)
	AC220V	0.06 / 0.04(A)	90 / 54EA	646g / 623g	
AUW-L125H	DC12V	0.43 / 0.26(A)	90 / 54EA	370g / 347g	
	DC24V	0.51 / 0.32(A)	90 / 54EA	370g / 347g	

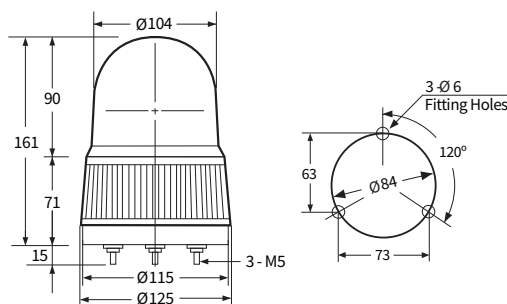


AUW-L125MC

big magnet with
cigar jack option
for vehicle
(DC12V only)

Technical Diagram

Unit: mm



AUW-L125L

- ⊙ Ø125mm, long body standard Multiple Function LED Warning Light
- ⊙ For the embedded buzzer, a bracket is attached at the bottom
- ⊙ 2 type of LED brightness: standard and high luminance
- ⊙ Voice sound (add voice signal function) can be ordered
- ⊙ Material : Globe [PC], Body [ABS]

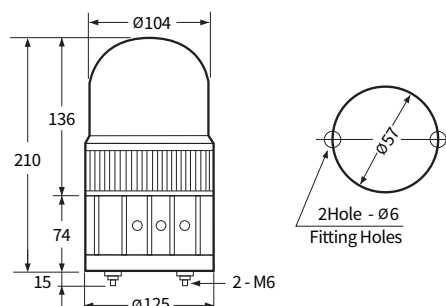
MODEL	Voltage	Current High/Standard	LED EA High/Standard	Weight High/Standard	Color
AUW-L125L	AC110V	0.11 / 0.09(A)	90 / 54EA	1197g/1174g	● Red(R) ● Orange(O) ● Green(G) ● Blue(B)
	AC220V	0.06 / 0.04(A)	90 / 54EA	1197g/1174g	
AUW-L125LH	DC12V	0.43 / 0.26(A)	90 / 54EA	917g/894g	
	DC24V	0.51 / 0.32(A)	90 / 54EA	917g/894g	



AUW-L125L

Technical Diagram

Unit: mm



※ Tone select switch & volume switch



AUW-L150S

Nomenclature

AUW -	①	②	③
	Type	Diameter	Voltage
L : Multiple Function LED		150S : Ø150 SUS body	220 : AC220V
		150SH : Ø150 SUS body / High luminance	110 : AC110V
			24 : DC24V
			12 : DC12V

AUW-L150S

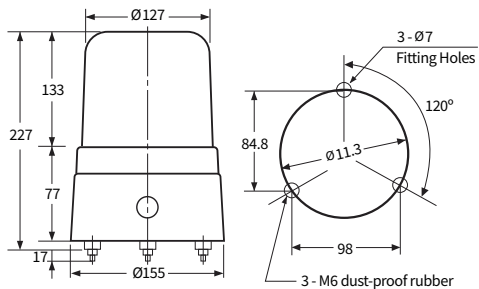
- Ø150mm , SUS body standard Multiple Function LED Warning Light
- The lamp is light and shock-resistant, featuring a polystyrene globe that with a special striped pattern. The body structure is steel (SUS304) for excellent shock and corrosion resistance
- 2 types of LED brightness : standard and high luminance
- Material: Globe [GPPS], Body [SUS304]

Model	Voltage	Current	LED EA	Weight	Color
AUW-L150S	AC110V	0.09(A)	54EA	1179g	● Red
	AC220V	0.04(A)	54EA	1179g	● Orange
	DC12V	0.26(A)	54EA	880g	● Green
	DC24V	0.32(A)	54EA	880g	● Blue

Model	Voltage	Current	LED EA	Weight	Color
AUW-L150SH	AC110V	0.11(A)	90EA	1202g	● Red
	AC220V	0.06(A)	90EA	1202g	● Orange
	DC12V	0.43(A)	90EA	903g	● Green
	DC24V	0.51(A)	90EA	903g	● Blue

Technical Diagram

Unit: mm



Wiring Diagram

AUW-L60

AUW-L80 / L100 / L125 / L150S

AUW-L125L

MEMO

- Selector switch (tone setting)
- VR → Volume level settings



Nomenclature



AUW-L/LF40

AUW -	①	②	③	④
	Type	Diameter	Audible Option	Voltage
	L : LED Steady LF : LED Flashing	40 : Ø40	No mark : None AB : Buzzer	24 : DC24V

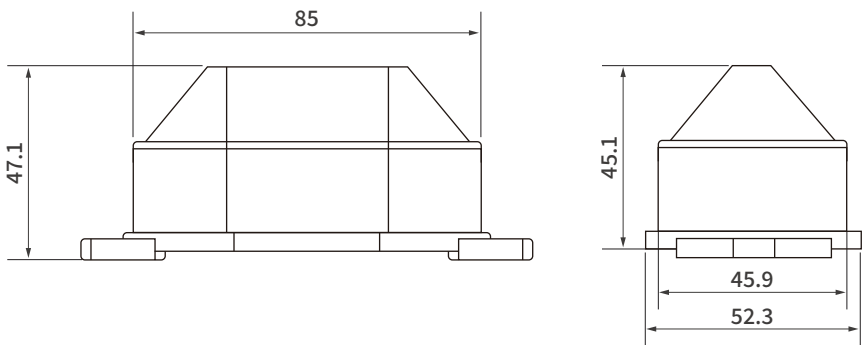
AUW-L/LF 40

- ⦿ Outer diameter 40mm Steady/Flashing/Flashing buzzer type Warning Light
- ⦿ Suitable for rated operating voltage of DC24 and emits sound and light signals
- ⦿ The power supply is non-polar and the color of the wires does not matter
- ⦿ Ideal for use in small equipment, automated production lines, and outdoor public spaces
- ⦿ Max. 85dB
- ⦿ Protection rating : IP43
- ⦿ Materials : Globe[PC], Body[ABS]
- ⦿ Operating Temperature : -25 ~ 55°C (freezing free)

MODEL	Type	Output	Input current	Buzzer Volume	Color
AUW-L40	Steady	None	45mA	Max. 85dB	● Red
AUW-LF40	Flashing				
AUW-LF40-AB	flashing buzzer	Buzzer(AB)	80mA		

Technical Diagram

Unit: mm





Nomenclature

AUW -	①	②	③	④	⑤	⑥
	Type	Diameter	Body Color	Cap type	Audible Option	Voltage
CL : CAUTION LED		100 : Ø100	No mark : Black	D : Dome type	No mark : None	220 : AC220V
		125 : Ø125	S : Silver	F : Flat type	AB : Buzzer	110 : AC110V
					AM : Melody	24 : DC24V
					AS : Siren	12 : DC12V



AUW - CL100



AUW - CL100



AUW - CL125

CAUTION LED Warning Light

Common Specifications

- ⊙ With the application of the Power LED, the visibility is excellent even in dark places
- ⊙ Suitable for signal transmission of cleaning trucks, forklifts, roads, and subway construction
- ⊙ Lighting / Blinking / Strobe 1, 2, 3, 4 functions can be selected and applied according to the site
- ⊙ Due to strobe characteristics, ambient ventilation is excellent
- ⊙ AB (buzzer 3 notes), AM (melody 3 notes), AS (Siren 3 notes) / Max. 80dB
- ⊙ Material : Globe [Ø100-GPPS, Ø125-PC], Body [ABS]
- ⊙ Operating Temperature: -25 ~ 50°C

AUW - CL100

- ⊙ Ø100mm, small Caution LED Warning Light
- ⊙ Magnet option & Cigarette lighter plug option (for DC12V only) are available

MODEL	Voltage	Weight	Color
AUW - CL100	AC110V / 220V	260 g	- Red(R) - Yellow(Y) - Green(G) - Blue(B)
	DC12V / 24V	240 g	

AUW - CL125

- ⊙ Ø125mm, standard Caution LED Warning Light
- ⊙ Magnet option & Cigarette lighter plug option (for DC12V only) are available

MODEL	Voltage	Weight	Color
AUW - CL125	AC110V ~ 220V	328g	- Red(R) - Yellow(Y) - Green(G) - Blue(B)
	DC12V / 24V	303g	



Nomenclature



①	②	③	④
Type	Diameter	Audible Option	Voltage
L : LED	100 : Ø100	AB : Buzzer AM : Melody	220 : AC220V 110 : AC110V 24 : DC24V 12 : DC12V

AUHW

- Warning Light & Electronic Horn Combination
- Structure combining LED indicator light and high-quality electronic horn
- Clear sound with 8-code high-quality output
- 16 modes of tone combination possible by internal DIP S/W operation
- Built-in LED steady-flashing change S/W, adjustable volume depending on application environment / Max. 105dB
- 2 body color options (Beige, Silver)
- Protection rating : IP54
- Materials : Globe[PC], Body[ABS], Reflector [Heat resistant type ABS]
- Operating Temperature : -20 ~ 40°C

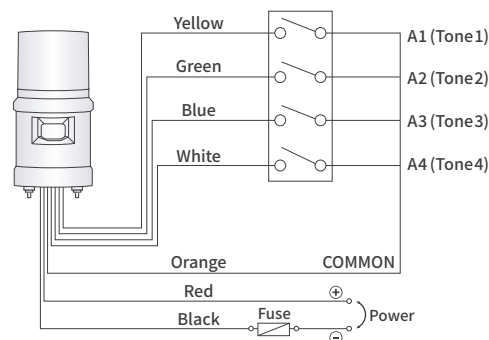
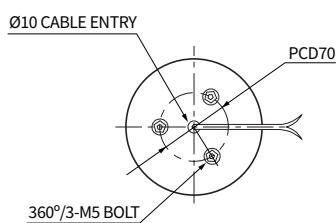
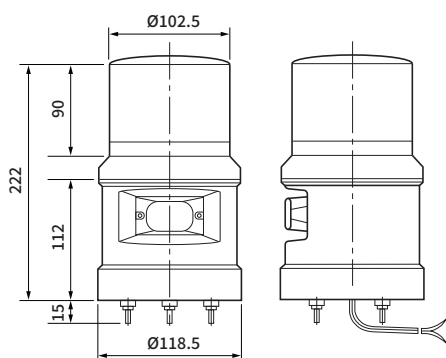
User order specifications

- ※ For audible options, please refer to page 34.
- ※ Users can control sound combinations through the DIP switches in the product.

Audible Options	S/W Settings	Channel	Tones	Voltage	Current	Color
AM Melody	ON OFF No. 2,3,4 ON	A1 (Yellow) A2 (Green) A3 (Blue) A4 (White)	Turkish March Piano Sonata Home Sweet Home Fur Elise	AC110V AC220V DC12V DC24V	0.056A 0.028A 0.15A 0.20A	● Red ● Yellow ● Green
AB Buzzer	ON OFF No. 1,2 ON	A1 (Yellow) A2 (Green) A3 (Blue) A4 (White)	bee~bee~bee Dingdong bee-ee bee bee bee bee			

Technical Diagram

Unit: mm



Speaker / Electronic Horn / Heavy Duty Electronic Horn



		Speaker	Electronic Horn		Heavy Duty Electronic Horn			
Model		AUP-B	AUP-EWH		AUP-EWM-A	AUP-EWM-B	AUP-EWM-C	
Voltage		AC110V ~ 220V DC12V / 24V	AC110V ~ 220V DC12V / DC24V		AC110 ~ 220V DC12V / DC24V	AC110 ~ 220V DC24V	AC110 ~ 220V DC12V / DC24V	AC110 ~ 220V
Dimension (mm)	Diameter	78 X 78	116 x 116	Ø210	116	120	134	134
	Height	-	-	-	196	161	154	154
	Depth	71	196	306	223	120	242	325
Material		ABS	ABS	ABS	Horn – ABS / Body – AC7A			
Sound & Volume	Melody	4 Sounds Max. 90dB	3 Sounds Max. 115dB	3 Sounds Max. 120dB	3 Sounds Max. 120dB	3 Sounds Max. 115dB	3 Sounds Max. 115dB	3 Sounds Max. 120dB
	Buzzer Siren							
Mounting structure		Panel buried	Self stand		Wall mounted		Direct mounted	
Max. Output		-	25W	35W	25W / 35W	25W	25W	50W
Cable entry								
Customization		-	15W	-	-		-	
Page		p.33	p.35	p.35	p.36	p.36	p.37	p.37

AUP-B Series

Panel Mounted Speaker



Nomenclature



AUP - B - ① - ②

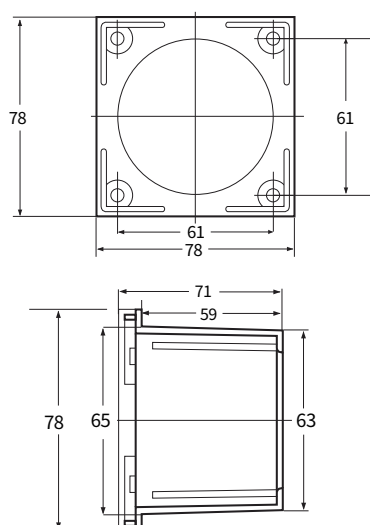
Audible Option Voltage

①
AM: Melody
AB: Buzzer
AV: Voice

②
110 / 220 :
AC110 ~ 220V
12 : DC12V
24 : DC24V

Technical Diagram

Unit: mm



AUP-B

Panel Mounted Speaker

- Although it is small in size, it makes a clear, high capacity sound
- A panel style buzzer and alarm made with 4 channels. Users can choose the tones based on the channel selection
- Clear and fine sound in 8 harmonies
- Users can control 5 types of melodies and 7 types of buzzers according to the selected combination
- Volume control is provided on the reverse side of the product
- Max. 90dB
- Material : ABS
- Operating Temperature : -25 ~ 50°C

Customization

- Users can control sound combinations through the DIP switches in the product (See Page 34)
- If changing user settings is too difficult, the default setting is available when deciding order specifications



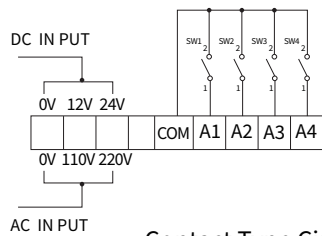
MODEL	Built-in sound specifications				Voltage	Current	Weight
	Channel	Audible Options	Sounds	Volume			
AUP-B	A1	Melody (AM) DIP switch No. 2, 3, 4 ON	Turkish March	Max. 90dB	AC110V / AC220V	0.5(A)	272g
	A2		Piano Sonata				
	A3		Home Sweet Home				
	A4	Buzzer (AB) DIP switch No. 1, 2 ON	Fur Elise				
	A1		bee~bee~bee		DC12V / DC24V	1.2(A)	184g
	A2		Dingdong				
	A3		bee-ee				
	A4		bee bee bee bee				

- ⊙ Audible tones can be adjusted using the DIP switch, which becomes visible after removing the sticker, and the external channel sockets
- ⊙ Volume can be adjusted by lightly turning the dial with a flat head screwdriver

Audible Table

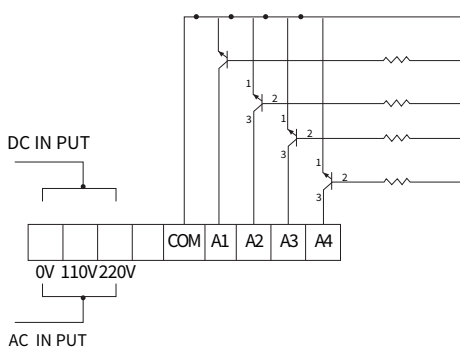
- ⊙ It can be changed to use DIP switch and input pin channel adjustment, depending on the user's selection

Circuit Diagram



Contact Type Circuit

	Transistor	Contact-free Relay
Type	NPN Transistor (2SC & 2SD)	Current output-type for DC load (open collector)
Withstand Voltage	$V_c > 12V$	
Current Capacity	$I_C > 10mA$ (10mA or more)	
Leakage Current	$I_{CDB} > 0.1mA$ (0.1mA or lower)	
Allowable Voltage	$V_{AST} < 1V$ (1V or lower)	



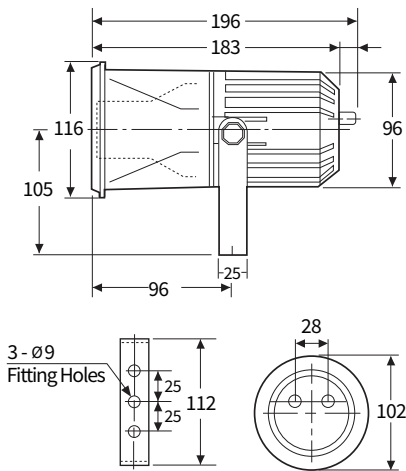
How to Use TR and SSR

DIP Switch Adjustment	Input Pin			
	A1	A2	A3	A4
All OFF	Dingdongdang	Piano Sonata	Magic Flute	Home Sweet Home
No 1 ON	Dingdong	Telephone bell	bee bee peep	Dingdongdang
No 2 ON	Magic Flute	Piano Sonata	Fur Elise	Telephone bell
No 3 ON	Piano Sonata	Turkish March	Home Sweet Home	Magic Flute
No 4 ON	Fur Elise	Turkish March	Home Sweet Home	bee bee bee bee
No 1, 2 ON	bee~bee~bee	Dingdong	bee-ee	bee bee bee bee
No 1, 3 ON	Magic Flute	Fur Elise	Turkish March	Home Sweet Home
No 1, 4 ON	Magic Flute	Home Sweet Home	Telephone bell	Dingdongdang
No 2, 3 ON	Magic Flute	Turkish March	Piano Sonata	bee bee bee bee
No 2, 4 ON	Home Sweet Home	Magic Flute	Turkish March	Dingdong
No 3, 4 ON	Magic Flute	Home Sweet Home	Dingdong	Telephone bell
No 1, 2, 3 ON	Fur Elise	Home Sweet Home	Magic Flute	Piano Sonata
No 1, 2, 4 ON	Magic Flute	Turkish March	Home Sweet Home	bee~bee~bee
No 1, 3, 4 ON	Magic Flute	Piano Sonata	Home Sweet Home	Dingdongdang
No 2, 3, 4 ON	Turkish March	Piano Sonata	Home Sweet Home	Fur Elise
No 1, 2, 3, 4 ON	Piano Sonata	Magic Flute	Fur Elise	Turkish March



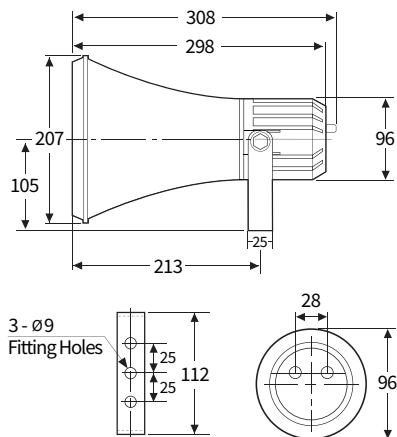
AUP-EWH-25W

Technical Diagram Unit: mm



AUP-EWH-35W

Technical Diagram Unit: mm



Nomenclature

AUP - EWH -	①	-	②	-	③
	Output		Audible Option		Voltage
	25W : 25W		AS : Siren		110 / 220 :
	35W : 35W		AM : Melody		AC110 ~ 220V
			AB : Buzzer		12 : DC12V
			AV : Voice		24 : DC24V

AUP-EWH

Electronic Horn

- 3 siren sounds, 3 melody sounds, and 3 buzzer sounds can be selected according to the operator's purpose
- The device is equipped with a volume switch for easier volume adjustment
- The device is equipped with a timbre switch for easier timbre change
- Light and solid manufacturing
- Buzzer volume Max. 115 ~ 120dB
- Material : ABS
- Operating Temperature : -25 ~ 50°C

MODEL	Built-in sound specifications			Volume	Voltage & Current	Weight
	Channel	Audible Options	Sounds			
AUP-EWH 25W	A1	Siren AS	Fire	Max. 115dB	AC110V / 220V compatible: 0.113A	AC : 1174g DC : 1122g
	A2		Emergency			
	A3		Urgent			
	A1	Melody AM	The Magic Flute	Max. 115dB	DC12V : 2.21A	
	A2		Home Sweet Home			
	A3		Fur Elise			
	A1	Buzzer AB	bee bee bee bee	Max. 115dB	DC24V : 1.02A	
	A2		Ding dong			
	A3		beep ~ beep ~ beep			
AUP-EWH 35W	A1	Siren AS	Fire	Max. 120dB	AC110V / 220V compatible: 0.122A	AC : 1431g DC : 1379g
	A2		Emergency			
	A3		Urgent			
	A1	Melody AM	The Magic Flute	Max. 120dB	DC12V : 2.44A	
	A2		Home Sweet Home			
	A3		Fur Elise			
	A1	Buzzer AB	bee bee bee bee	Max. 120dB	DC24V : 1.19A	
	A2		Ding dong			
	A3		beep ~ beep ~ beep			

Customization

- 15W customized consultation is possible
- Voice signal (Voice sound) is selectable as a ordering specification (Voice sound type DC12V / 24V compatible)
- 4 sounds, including melodies and Piano Sonata, and 4 sounds including buzzer and bee~~~bee~~~ sounds can be ordered



AUP-EWM-A



AUP-EWM-B

Nomenclature

	①	-	②	-	③	-	④
	Type		Output		Audible Option		Voltage
AUP - EWM -	A Type		25W : 25W		AS : Siren		110 / 220 :
	B Type		35W : 35W		AM : Melody		AC110 ~ 220V
					AB : Buzzer		12 : DC12V 24 : DC24V

AUP - EWM - A

Heavy Duty Electronic Horn

- ⊙ A cable gland is equipped on the housing terminal box
- ⊙ Aluminum housing structure with excellent durability
- ⊙ Suitable for outdoor, shipping, and heavy industry with completely waterproofed structure
- ⊙ Buzzer volume Max. 115 ~ 120dB
- ⊙ Material : Aluminum housing + ABS Signal Horn
- ⊙ Operating Temperature : -25 ~ 50°C
- ⊙ 25W / 35W two types of maximum outputs are available

* See on Page 35

MODEL	Output	Audible Options	Volume	Voltage	Weight
AUP-EWM-A	25W	Siren AS	Max. 115dB	AC110V ~ 220V DC12V DC24V	AC : 3067g DC : 3040g
		Melody AM			
		Buzzer AB			
	35W	Siren AS	Max. 120dB	AC110V ~ 220V DC12V DC24V	AC : 3324g DC : 3297g
		Melody AM			
		Buzzer AB			

AUP - EWM - B

Heavy Duty Electronic Horn

- ⊙ The housing is equipped with a flexible connector
- ⊙ Buzzer volume Max. 115dB
- ⊙ 25W of maximum output is available

* See on Page 35

MODEL	Output	Audible Options	Volume	Voltage	Weight
AUP-EWM-B	25W	Siren AS	Max. 115dB	AC110V ~ 220V DC24V	AC : 2121g DC : 2101g
		Melody AM			
		Buzzer AB			

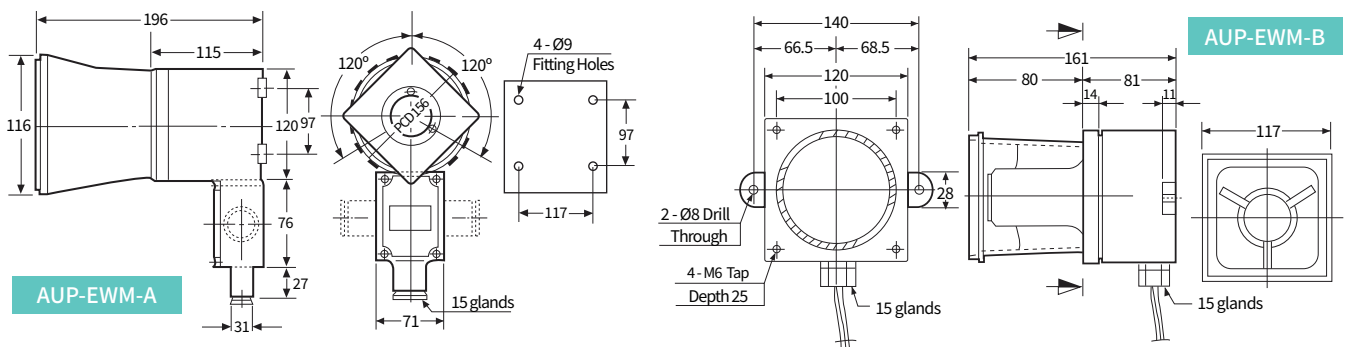


Cable Glands

Flexible Connector

Technical Diagram

Unit: mm

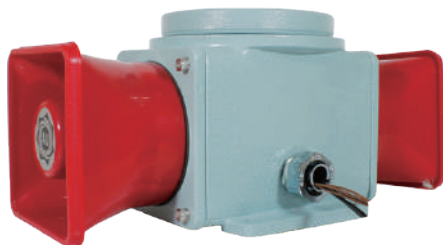




Nomenclature



AUP-EWM-C 25W



AUP-EWM-C 50W

AUP - EWM -	①	-	②	-	③	-	④
	Type		Output		Audible Option		Voltage
C Type			25W : 25W		AS : siren		110 / 220 :
			50W : 50W		AM : Melody		AC110 ~ 220V
					AB : Buzzer		12 : DC12V 24 : DC24V

AUP - EWM - C

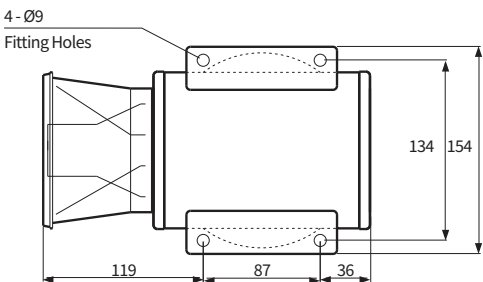
Heavy Duty Electronic Horn

- ⊙ The housing is equipped with a flexible connector
- ⊙ This product features excellent durability thanks to its aluminum housing structure
- ⊙ Suitable for heavy industry with completely waterproofed structure
- ⊙ With high capacity, suitable for places with loud noise or that require left and right direction
- ⊙ Material : Aluminum housing + ABS Horn
- ⊙ Operating Temperature : -25 ~ 50°C
- ⊙ 25W (One-way) / 50W (Two-way) of maximum output, with Electronic Horn

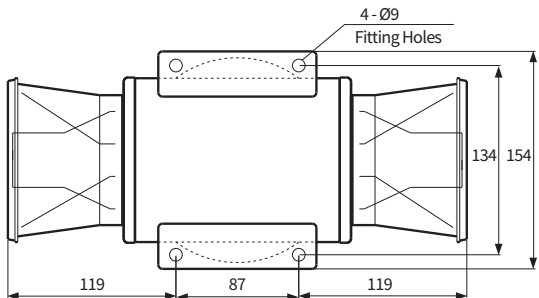
MODEL	Built-in sound specifications			Volume	Voltage	Weight
	Channel	Audible Options	Sounds			
AUP-EWM-C 25W (One-Way)	A1	Siren AS	Fire	Max. 115dB	AC110V ~ 220V	AC: 2796g DC: 2771g
	A2		Emergency			
	A3		Urgent			
	A1	Melody AM	The Magic Flute	Max. 115dB	DC12V	
	A2		Home Sweet Home			
	A3		Fur Elise			
	A1	Buzzer AB	bee bee bee bee	Max. 115dB	DC24V	
	A2		Ding dong			
	A3		bee~bee~bee~			
AUP-EWM-C 50W (Two-Way)	A1	Siren AS	Fire	Max. 120dB	AC110V / 220V	AC: 3678g
	A2		Emergency			
	A3		Urgent			
	A1	Melody AM	The Magic Flute	Max. 120dB		
	A2		Home Sweet Home			
	A3		Fur Elise			
	A1	Buzzer AB	bee bee bee bee	Max. 120dB		
	A2		Ding dong			
	A3		bee~bee~bee~			

Technical Diagram

Unit: mm

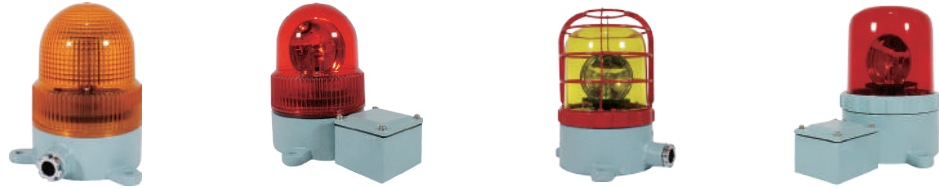


AUP-EWM-C-25W



AUP-EWM-C-50W

Heavy Duty Industrial Warning Light



		AUM Series			
Model		AUM-A-125	AUM-B-125	AUM-A-150	AUM-B-150
Voltage		AC110V / AC220V / DC12V / DC24V			
Dimensions (mm)	Outdia	Ø125	Ø125	Ø147	Ø147
	Height	184	184	216	216
	Depth	176	230	205	260
Material		Body [AL], Ring [CU], Globe [GPPS / PC]		Body [AL], Ring [CU], Globe [GPPS]	
Light source & Operation	Bulb Revolving	•	•	•	•
	Multiple Function LED	•	•	•	•
	Caution LED	•	•	•	•
Mounting structure		Direct mounted			
Cable entry		Cable Glands 15			
Customization		Protective net , High luminance LED		Protective net , High luminance LED	
Page		p.40	p.40	p.41	p.41

Warning Light & Electronic Horn Combinations for Heavy Industry Applications



		AUCS Series		AUMS Series	
Model		AUCS 25W	AUCS 50W	AUMS-125	AUMS-150
Voltage		AC110V / AC220V / DC12V / DC24V			
Dimensions (mm)	Outdia	153	153	119	150
	Height	253	253	220	220
	Depth	245.5	327.6	435	470
Material		Body [AL], Globe [GPPS / PC], Electronic Horn [ABS]			
Sound & Volume	Melody	Basic 3 sounds Max. 115dB		Basic 3 sounds Max. 115dB	Basic 3 sounds Max. 115dB
	Buzzer				
	Siren				
Light source & Operation	Bulb Revolving	•	•	•	•
	Multiple Function LED	•	•	•	•
	Caution LED	•	•	•	•
Mounting structure		Direct mounted		Wall mounted	
Cable entry		#16 zinc connector		Cable Glands 15	
Customization				High luminance LED	Protective net, High luminance LED
Page		p.43		p.45	p.46



AUM - A-R150
(With protective net option)

Nomenclature

①	②	③
Type	Warning Light Model	Voltage
A type	R125/150 : Bulb Revolving(Ø125/Ø150)	220 : AC220V
	L125/150 : Multiple Function LED (Ø125/Ø150)	110 : AC110V
B type	CL125 : Caution LED (Ø125)	24 : DC24V
		12 : DC12V

Heavy duty industrial Warning / Caution LED

- ⊙ The body is aluminum housing structure with strong shock resistance and excellent corrosion resistance
- ⊙ 2 types of housings depending on installation purpose
- ⊙ Suitable for ships and heavy industries
- ⊙ Install the terminal block in the product or in the terminal box
- ⊙ Material : **Body** [Aluminum (AC7A)] , **Ring** [CU] , **Globe** [GPPS , PC (125mm LED & Caution LED)]
- ⊙ Standard body color : MUNSELL NO. 7.5G / 7.2
- ⊙ Operating Temperature : -25 ~ 50°C

AUM Series Common Specifications

1 Housing

- ⊙ 2 housing types depending on use A / B



AUM - A	AUM - B
⊙ Basic housing type without attached terminal box ⊙ Suitable for installation in narrow spaces or on ceilings	⊙ A terminal box is attached to the housing ⊙ Convenient line connection with the terminal box

2 A Variety of Selectable Light Source & Function Combinations

Light Source & Function	Globe Outer Diameter
 Bulb Revolving	 125 mm
 Multiple Function LED steady / flashing / revolving / revolving-flashing	 150 mm
 Caution LED	 125 mm

3 Protective Net

- ⊙ Protective net is installed at the outside of the globe to prevent damage by shock (Protective net is optional)



5 High luminance type

- ⊙ High luminance type is available for Multiple Function LED and Caution LED providing excellent radiant effect

4 Fully enclosed structure

- ⊙ The tightly sealed warning light structure is waterproof and dustproof

6 Cable entry

- ⊙ Basic housing type without attached terminal box



AUM-A-R125

AUM-B-R125



AUM-A-L125

AUM-B-L125

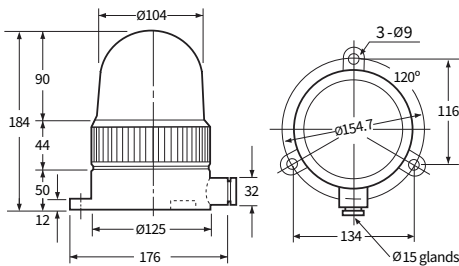


AUM-A-CL125

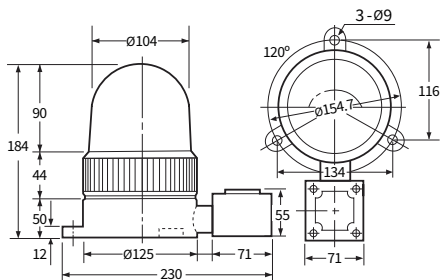
AUM-B-CL125

Technical Diagram

Unit: mm



AUM - A - 125



AUM - B - 125

AUM-A-R125 / AUM-B-R125

Bulb Revolving

- ⊙ Ø125mm, heavy duty industrial Bulb Revolving Warning light
- ⊙ Rev. count : Randomly controlled (130-140)

MODEL	Voltage	Current	Bulb	Weight		Color
				A	B	
AUM-A-R125	AC110V	0.11(A)	12V 15W	1687g	2220g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.06(A)	12V 15W	1687g	2220g	
AUM-B-R125	DC12V	1.19(A)	12V 15W	1125g	1658g	
	DC24V	0.74(A)	24V 15W	1125g	1658g	



AUM-A-L125 / AUM-B-L125

Multiple Function LED

- ⊙ Ø125mm, heavy duty industrial Multiple Function LED Warning light
- ⊙ 2 types of LED brightness : standard and high luminance
- ⊙ Rev. count : Randomly controlled

MODEL	Voltage	Current	LED EA	Weight		Color
				A	B	
AUM-A-L125 AUM-B-L125	AC110V	0.09(A)	54EA	1337g	1877g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.04(A)	54EA	1337g	1877g	
	DC12V	0.26(A)	54EA	1047g	1683g	
	DC24V	0.32(A)	54EA	1055g	1691g	
High luminance	AC110V	0.11(A)	90EA	1360g	1897g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
AUM-A-L125H AUM-B-L125H	AC220V	0.06(A)	90EA	1360g	1897g	
	DC12V	0.43(A)	90EA	1070g	1703g	
	DC24V	0.51(A)	90EA	1078g	1711g	



AUM - A / B - CL125

Caution LED

- ⊙ Ø125mm, heavy duty industrial Caution LED Warning light

MODEL	Voltage	Weight	Color
AUM-A-CL125	AC110V	1735g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	1635g	
	DC12V	1712g	
	DC24V	1695g	
AUM-B-CL125	AC110V	1735g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	1735g	
	DC12V	1712g	
	DC24V	1695g	



AUM-A-R150



AUM-B-R150



AUM-A-L150



AUM-B-L150

AUM - A / B - R150

Bulb Revolving

- ⊙ Ø150mm, heavy duty industrial Bulb Revolving Warning light
- ⊙ Rev. count : Randomly controlled (130-140)

MODEL	Voltage	Current	Bulb	Weight		Color
				A	B	
AUM-A-R150 AUM-B-R150	AC110V	0.11(A)	12V 15W	2974g	3206g	- Red (R) - Yellow (Y) - Green (G) - Blue (B)
	AC220V	0.06(A)	12V 15W	2974g	3206g	
	DC12V	1.19(A)	12V 15W	2407g	2640g	
	DC24V	0.74(A)	24V 15W	2407g	2640g	
High luminance	AC110V	0.31(A)	12V 35W	3000g	3232g	- Red (R) - Yellow (Y) - Green (G) - Blue (B)
AUM-A-R150H AUM-B-R150H	AC220V	0.04(A)	12V 35W	3000g	3232g	
	DC12V	0.26(A)	12V 35W	2433g	2666g	
	DC24V	1.62(A)	24V 35W	2433g	2666g	



AUM - A / B - L150

Multiple Function LED

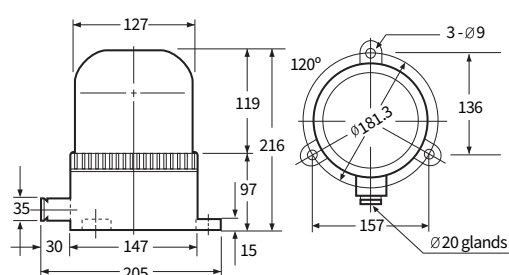
- ⊙ Ø150mm, heavy duty industrial Multiple Function LED Warning light
- ⊙ 2 types of LED brightness : standard and high luminance
- ⊙ Rev. count : Randomly controlled

MODEL	Voltage	Current	LED EA	Weight		Color
				A	B	
AUM-A-L150 AUM-B-L150	AC110V	0.09(A)	54EA	2150g	2902g	- Red (R) - Yellow (Y) - Green (G) - Blue (B)
	AC220V	0.04(A)	54EA	2150g	2902g	
	DC12V	0.26(A)	54EA	1858g	2610g	
	DC24V	0.32(A)	54EA	1866g	2618g	
High luminance	AC110V	0.11(A)	90EA	2170g	2922g	- Red (R) - Yellow (Y) - Green (G) - Blue (B)
AUM-A-L150H AUM-B-L150H	AC220V	0.06(A)	90EA	2170g	2922g	
	DC12V	0.43(A)	90EA	1878g	2630g	
	DC24V	0.51(A)	90EA	1886g	2638g	

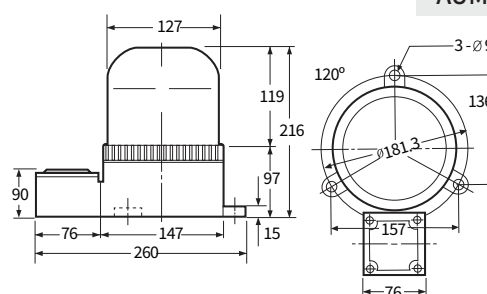
Technical Diagram

Unit: mm

AUM - A - 150



AUM - B - 150





Nomenclature

	①	②	③	④	⑤
	Warning Light Model	High luminance	Output	Audible option	Voltage
AUCS -	R125 : Bulb Revolving	No mark :	25W : 25W	AS : Siren	220 : AC220V
	L125 : Multiple Function LED	Standard Type	50W : 50W	AM : Melody	110 : AC110V
	CL125 : Caution LED	H : High luminance		AB : Buzzer	24 : DC24V
					12 : DC12V

Warning Light and Electronic horn combinations with excellent durability and perfectly enclosed structure, designed for heavy industry applications

- ⊙ Heavy duty industrial 125mm Warning Light and Electronic Horn
- ⊙ 3 types of light sources can be chosen, based on installation purpose
- ⊙ Suitable for outdoor, shipping, and heavy industry with completely waterproofed structure
- ⊙ Classified into one-way (25W) / two-way (50W), depending on output
- ⊙ Material : **Body** [Aluminum (AC7A)], **Globe** [GPPS, PC]

Electronic Horn [ABS]

- ⊙ Standard body color : MUNSSELL NO. 7.5G / 7.2
- ⊙ Operating Temperature : -25 ~ 50°C

AUCS Series Common Specifications

1 Light Source & Function



Bulb Revolving



Multiple Function LED

steady / flashing /
revolving / revolving-flashing



Caution LED

3 Max. Output & Horn Direction

- ⊙ One-way Horn : 25W / Two-way Horn : 50W

4 Fully enclosed structure

- ⊙ Highly durable aluminum housing is excellent waterproofing and dust-proofing

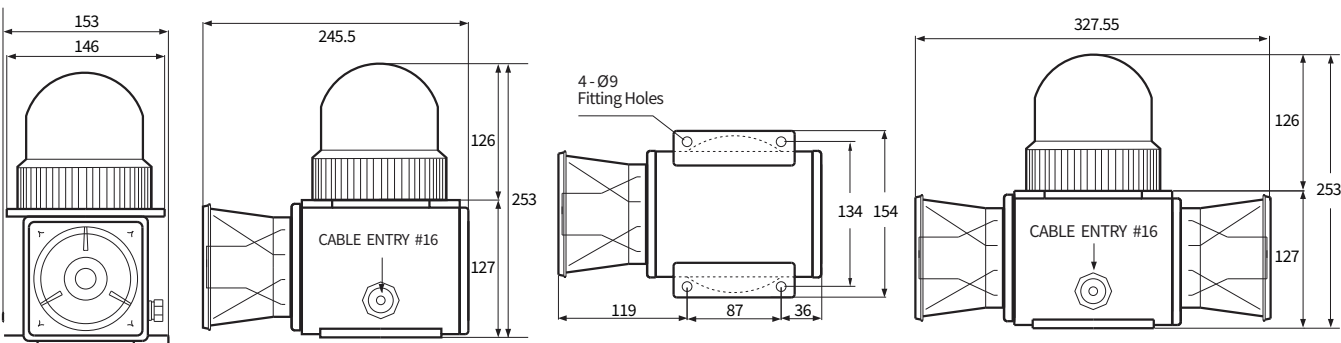
2 Horn Sound Selection

- ⊙ 3 kinds of timbres : siren sounds, melody sounds, and buzzer sounds are available for the use

Channel	Audible options	
CH1	Siren AS	Fire
CH2		Emergency
CH3		Urgent
CH1	Melody AM	The Magic Flute
CH2		Home Sweet Home
CH3		Fur Elise
CH1	Buzzer AB	bee bee bee bee
CH2		Ding dong
CH3		bee~bee~bee~

Technical Diagram

Unit: mm





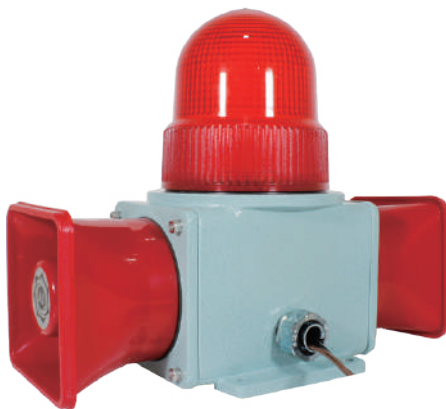
AUCS Series - 25W

AUCS - R125

Bulb Revolving Warning Light & Electronic Horn

⊙ Heavy Duty Industrial Bulb Revolving Warning Light & Electronic Horn Combinations (Ø125mm)

Model	Voltage	Current	Tone & volume	Bulb	Weight	Color
AUCS-R125 25W (One-Way)	AC110V	0.21(A)	Siren AS / Max. 115dB Fire / Emergency / Urgent	12V 15W	3760g	● Red (R)
	AC220V	0.12(A)		12V 15W		
	DC12V	1.50(A)	Melody AM / Max. 115dB The Magic Flute Home Sweet Home Fur Elise	12V 15W	3697g	● Yellow (Y)
	DC24V	0.90(A)		24V 15W	3735g	
AUCS-R125 50W (Two-Way)	AC110V	0.26(A)	buzzer AB / Max. 115dB bee bee bee bee Ding dong bee-bee-bee	12V 15W	4659g	● Green (G)
	AC220V	0.17(A)		12V 15W		
	DC12V	1.64(A)		12V 15W	4594g	● Blue (B)
	DC24V	0.98(A)		24V 15W	4594g	



AUCS Series - 50W

AUCS-L125

Multiple Function LED Warning Light & Electronic Horn

⊙ Heavy Duty Industrial Multiple Function LED Warning Light & Electronic Horn Combinations (Ø125mm)

⊙ 2 types of LED brightness: standard and high luminance

Model	Voltage	Current	Tone & volume	LED EA	Weight	Color
AUCS-L125 25W (One-Way)	AC110V	0.17(A)	Siren AS / Max. 115dB Fire / Emergency / Urgent	54EA	3390g	● Red (R)
	AC220V	0.11(A)		54EA		
	DC12V	0.47(A)	Melody AM / Max. 115dB The Magic Flute Home Sweet Home Fur Elise	54EA	3097g	● Yellow (Y)
	DC24V	0.45(A)		54EA	3105g	
AUCS-L125 50W (Two-Way)	AC110V	0.22(A)	buzzer AB / Max. 115dB bee bee bee bee Ding dong bee-bee-bee	54EA	4272g	● Green (G)
	AC220V	0.14(A)		54EA		
	DC12V	0.61(A)		54EA	3979g	● Blue (B)
	DC24V	0.56(A)		54EA	3987g	



Customization

⊙ Basic mounting for cable entry is #16 zinc connector, which can be changed to a cable gland through user specifications



AUCS-CL125

Caution LED Warning Light & Electronic Horn

⊙ Heavy Duty Industrial Caution LED Warning Light & Electronic Horn Combinations (Ø125mm)

MODEL	Voltage	Tone & volume	Weight	Color
AUCS-CL125 25W (One-Way)	AC110V	Siren AS / Max. 115dB Fire / Emergency / Urgent	3091g	● Red (R)
	AC220V			
	DC12V	Melody AM / Max. 115dB The Magic Flute Home Sweet Home Fur Elise	3079g	● Yellow (Y)
	DC24V			
AUCS-CL125 50W (Two-Way)	AC110V	buzzer AB / Max. 115dB bee bee bee bee Ding dong bee-bee-bee	4112g	● Green (G)
	AC220V			
	DC12V		4085g	● Blue (B)
	DC24V			



Nomenclature



①	②	③	④	⑤
Warning Light Model	High luminance	Output	Audible option	Voltage
R125/150 : Bulb Revolving	No mark :	25W : 25W	AS : Siren	220 : AC220V
L125/150 : Multiple Function LED	Standard Type	35W : 35W	AM : Melody	110 : AC110V
CL125 : Caution LED	H : High luminance		AB : Buzzer	24 : DC24V
				12 : DC12V

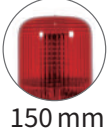
Wall mounted Warning Light & Electronic Horn Combinations for Heavy Industry Applications

- ⊙ Wall mounted model configured with heavy duty industrial integral Warning Light & Electronic Horn
- ⊙ Tone is changeable conveniently with the switch
- ⊙ Suitable for outdoor, shipping, and heavy industry with completely waterproofed structure
- ⊙ Convenient line connection with the terminal box
- ⊙ Material : **Body** [Aluminum (AC7A)], **Globe** [GPPS, PC]
- Electronic Horn** [ABS]
- ⊙ Standard body color : MUNSELL NO. 7.5G / 7.2
- ⊙ Operating Temperature : -25 ~ 50°C



AUMS Series Common Specifications

1 A Variety of Selectable Light Source & Function Combinations

Light Source & Function	Globe Outer Diameter
 Bulb Revolving	 125 mm
 Multiple Function LED steady / flashing / revolving / revolving-flashing	 150 mm
 Caution LED	 125 mm

3 Fully enclosed structure

- ⊙ Highly durable aluminum housing is a perfectly enclosed structure with excellent waterproofing and dust-proofing
- ⊙ Convenient line connection with the terminal box installed at the bottom of the product

5 Protective Net

- ⊙ Protective net option is available for Ø150mm globe models according to the user's needs

2 Electronic Horn Sound Selection

- ⊙ 3 kinds of timbres: siren sounds, melody sounds, and buzzer sounds are available for the use
- ⊙ A switch attached at the outside to change tone

Channel	Audible options	
CH1	Siren AS	Fire
CH2		Emergency
CH3		Urgent
CH1	Melody AM	The Magic Flute
CH2		Home Sweet Home
CH3		Fur Elise
CH1	Buzzer AB	bee bee bee bee
CH2		Ding dong
CH3		bee~bee~bee~

4 The external tone switch

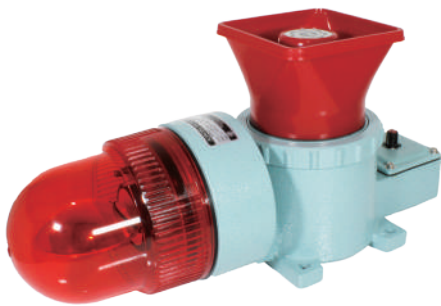
- ⊙ can change the audible tone

6 High Luminance Type

- ⊙ High luminance type is available for excellent radiance effect

AUMS-125 Series

Warning Light & Electronic Horn Combinations for Heavy Industry Applications



AUMS-R125-25W

AUMS-R125

Bulb Revolving Warning Light & Electronic Horn

- Heavy Duty Industrial Bulb Revolving Warning Light & Electronic Horn Combinations (Ø125mm)
- Rev. count : Randomly controlled

Model	Voltage	Current	Sound & volume	Bulb	Weight	Color
AUMS-R125 25W (standard)	AC110V	0.21(A)	Siren AS / Max. 115dB	12V 15W	4720g	Red (R)
	AC220V	0.12(A)	Melody AM / Max. 115dB	12V 15W		Yellow (Y)
	DC12V	1.50(A)	Buzzer AB / Max. 115dB (See table below)	12V 15W	4153g	Green (G)
	DC24V	0.87(A)		24V 15W		Blue (B)



AUMS-L125

Multiple Function LED Warning Light & Electronic Horn

- Heavy Duty Industrial Multiple Function LED Warning Light & Electronic Horn Combinations (Ø125mm)
- 2 types of LED brightness : standard and high luminance
- 4 types of operation (steady / flashing / revolving / revolving-flashing) are available using a microchip
- Rev. count : Randomly controlled



AUMS-L125-25W

Model	Voltage	Current	Sound & volume	LED EA	Weight	Color
AUMS-L125 25W (standard)	AC110V	0.17(A)	Siren AS / Max. 115dB	54EA	4250g	Red (R)
	AC220V	0.11(A)	Fire / Emergency / Urgent	54EA		Yellow (Y)
	DC12V	0.48(A)	Melody AM / Max. 115dB	54EA	3957g	Green (G)
	DC24V	0.45(A)	The Magic Flute Home Sweet Home Fur Elise	54EA	4165g	
AUMS-L125H 25W (high luminance)	AC110V	0.19(A)	Buzzer AB / Max. 115dB bee bee bee bee Ding dong bee~bee~bee~	90EA	4270g	Blue (B)
	AC220V	0.12(A)		90EA	3977g	
	DC12V	0.57(A)		90EA	4185g	Blue (B)
	DC24V	0.55(A)		90EA	4185g	



AUMS-CL125-25W

AUMS-CL125

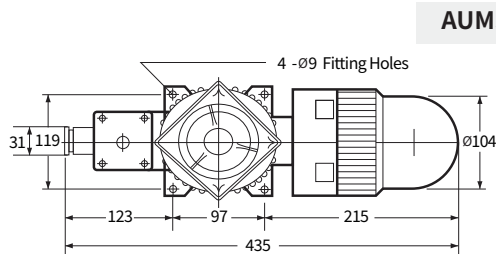
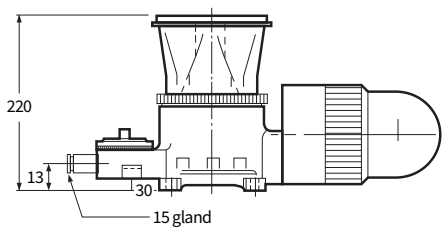
Caution LED Warning Light & Electronic Horn

- Heavy Duty Industrial Caution LED Warning Light & Electronic Horn Combinations (Ø125mm)

MODEL	Voltage	Sound & volume	Weight	Color
AUMS CL125 -25W	AC110V	Siren AS / Max. 115dB	4052g	Red (R)
	AC220V	Melody AM / Max. 115dB		Yellow (Y)
	DC12V	Buzzer AB / Max. 115dB	3452g	Green (G)
	DC24V			Blue (B)

Technical Diagram

Unit: mm



AUMS-150 Series

Warning Light & Electronic Horn Combinations for Heavy Industry Applications



AUMS-R150

Bulb Revolving Warning Light & Electronic Horn

- Heavy Duty Industrial Bulb Revolving Warning Light & Electronic Horn Combinations (Ø150mm)
- 2 types of LED brightness: standard and high luminance



AUMS-R150 -25W

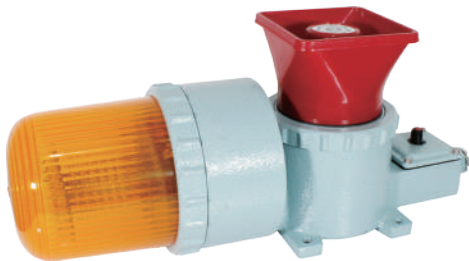
Model	Voltage	Current	Tone & volume	Bulb	Weight	Color
AUMS-R150 25W	AC110V	0.21(A)	Siren AS / Max. 115dB Fire / Emergency / Urgent	12V 15W	5290g	● Red (R)
	AC220V	0.12(A)		12V 15W		
	DC12V	0.50(A)	Melody AM / Max. 115dB The Magic Flute Home Sweet Home, Fur Elise	12V 15W	4723g	● Yellow (Y)
	DC24V	0.87(A)		24V 15W		
AUMS-R150H 25W	AC110V	0.22(A)	Buzzer AB / Max. 115dB bee bee bee bee Ding dong bee~bee~bee~	12V 35W	5316g	● Green (G)
	AC220V	0.13(A)		12V 35W		
	DC12V	3.20(A)		12V 35W	4749g	● Blue (B)
	DC24V	1.74(A)		24V 35W		



AUMS-L150

Multiple Function LED Warning Light & Electronic Horn

- Heavy Duty Industrial Multiple Function LED Warning Light & Electronic Horn Combinations (Ø150mm)
- 2 types of LED brightness: standard and high luminance

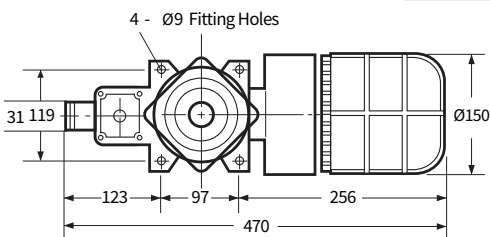
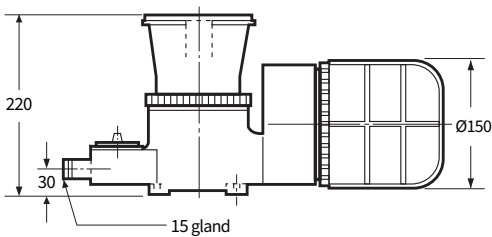


AUMS-L150 -25W

Model	Voltage	Current	Sound & volume	LED EA	Weight	Color
AUMS-L150 25W (standard)	AC110V	0.17(A)	Siren AS / Max. 115dB Fire / Emergency / Urgent	54EA	4840g	● Red (R)
	AC220V	0.11(A)		54EA		
	DC12V	0.48(A)	Melody AM / Max. 115dB The Magic Flute Home Sweet Home, Fur Elise,	54EA	4547g	● Yellow (Y)
	DC24V	0.45(A)		54EA	4755g	
AUMS-L150H 25W (high luminance)	AC110V	0.19(A)	Buzzer AB / Max. 115dB bee bee bee bee Ding dong bee~bee~bee~	90EA	4860g	● Green (G)
	AC220V	0.12(A)		90EA		
	DC12V	0.57(A)		90EA	4567g	● Blue (B)
	DC24V	0.55(A)		90EA	4775g	

Technical Diagram

Unit: mm



Heavy Duty Industrial Warning Light & Electronic Horn Combinations



		AUPS Series		
Model		AUPS-01	AUPS-02	AUPS-03
Voltage		AC110V / AC220V / DC12V / DC24V		
(mm)	Width	150	150	250
	Height	315	340	383
	Depth	215	215	310
Material		Globe [GPPS], Warning Light Body [ABS] Support [SUS], Electronic Horn [ABS]		Globe [GPPS, PC] Warning Light Body [SUS] Electronic Horn [ABS], Support [SUS]
Light source & Operation	Bulb Revolving	•	•	•
	Multiple Function LED	•	•	•
	Caution LED	•	•	•
Mounting structure		Wall mounted		Wall mounted
Output		25W	25W	25W / 35W
Customization		User selective customized		User selective customized Protective net
Page		p.48		

Customized Warning Light & Electronic Horn Combinations



		AUHP / H Series	
Model		AUHP-300 / H-500	
Voltage		AC110V / AC220V / DC24V	
Dimensions (mm)	Width	420	375
	Height	440	400
	Depth	200	200
Material		Globe [GPPS, PC] / Warning Light Body [ABS, SUS] / Body [SUS] / Electronic Horn [ABS]	
Customization		User customized manufacturing	
Page		p.49	



AUPS-01



AUPS-02



AUPS-03



AUPS series model can be combined according to The user's requirement

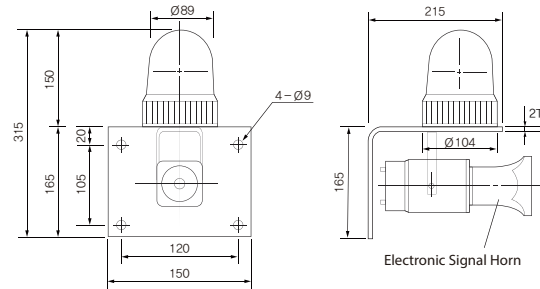
- Electronic Horn and Warning Light combination can be manufactured according to the user's selection
- The output of Electronic Horn is 25W, 35W
- PS-01 : Ø100 Warning Light + Electronic Horn
PS-02 : Ø125 Warning Light + Electronic Horn
PS-03 : Ø125 heavy duty industrial Warning Light + Electronic Horn

AUPS-01

- Small Ø100 combined Warning Light + Electronic Horn

Technical Diagram

Unit: mm

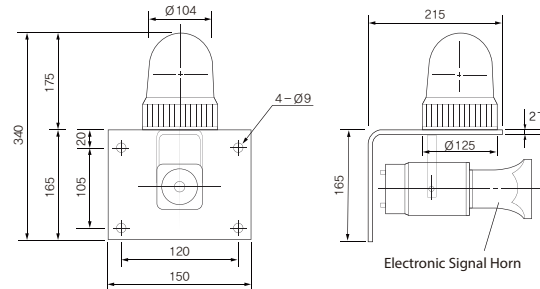


AUPS-02

- Standard Ø125 combined Warning Light + Electronic Horn

Technical Diagram

Unit: mm

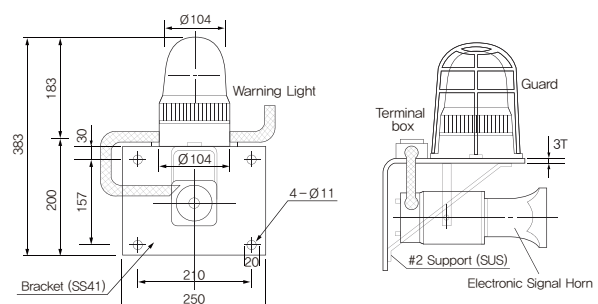


AUPS-03

- Heavy duty industrial Ø125 combined Warning Light + Electronic Horn
- Globe protective net option is available

Technical Diagram

Unit: mm



*High luminance available model

Warning Light Combination Model

Model	Warning Light Type	Ø	Warning Light
PS-01	Bulb Revolving	Ø100	AUW-R100 (P. 23)
	Multiple Function LED		AUW-L100 (P. 27)
	Caution LED		AUW-CL100 (P. 31)
PS-02	Bulb Revolving	Ø125	AUW-R125 (P. 23)
	Multiple Function LED		AUW-R150S (P. 24)
	Caution LED		AUW-L125 (P. 28)*
PS-03	Heavy duty industrial Bulb Revolving	Ø125	AUW-CL125 (P. 31)
	Heavy duty industrial Multiple Function LED		AUM-R125 (P. 40)
	Heavy duty industrial Caution LED		AUM-L125 (P. 40)*

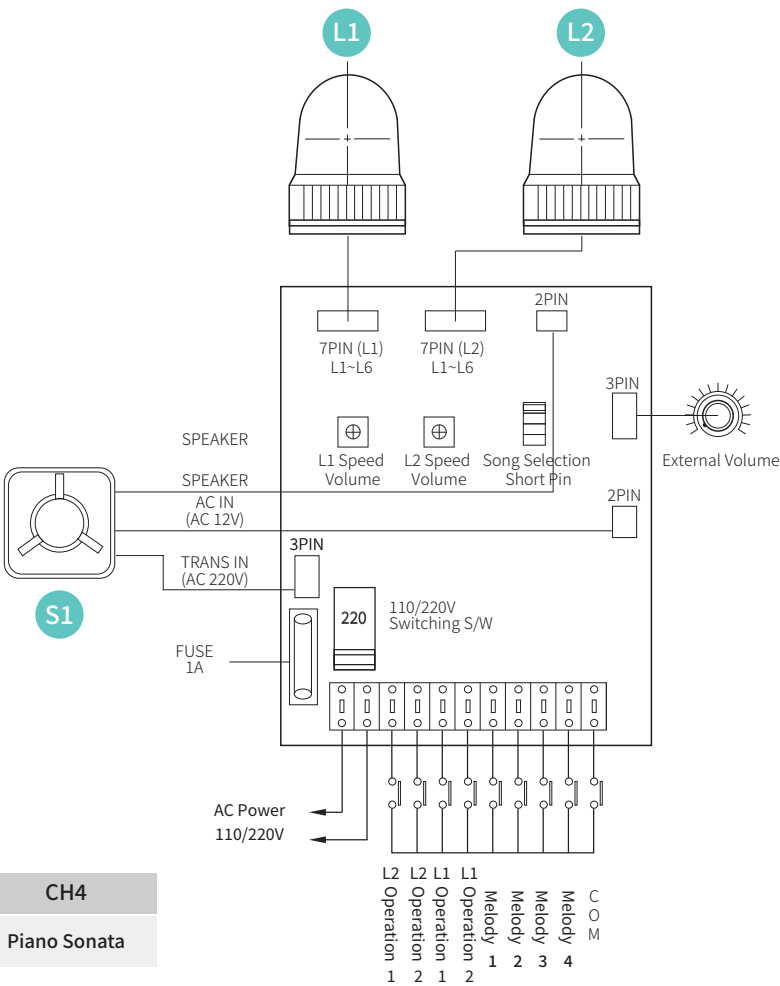
(For more details about the Warning Light, see P. 20/Signal Horn, see P. 35)



Special Order LED Warning Light & Electronic Horn

- Effectively usable with LED Warning Light and Electronic Horn integrated configuration
- From among LED Ø100 – Ø150 models, two can be combined
- Applicable for indicating device malfunction, material supply and stop signals, and signal transmission in automation line
- Consist of 8 channels usable according to the user's selection
- Volume is adjustable with external volume controller
- Please contact us to order optional products

Product Wiring Diagram



Product Combination Configuration
(See detailed specifications in p. 27– 29)

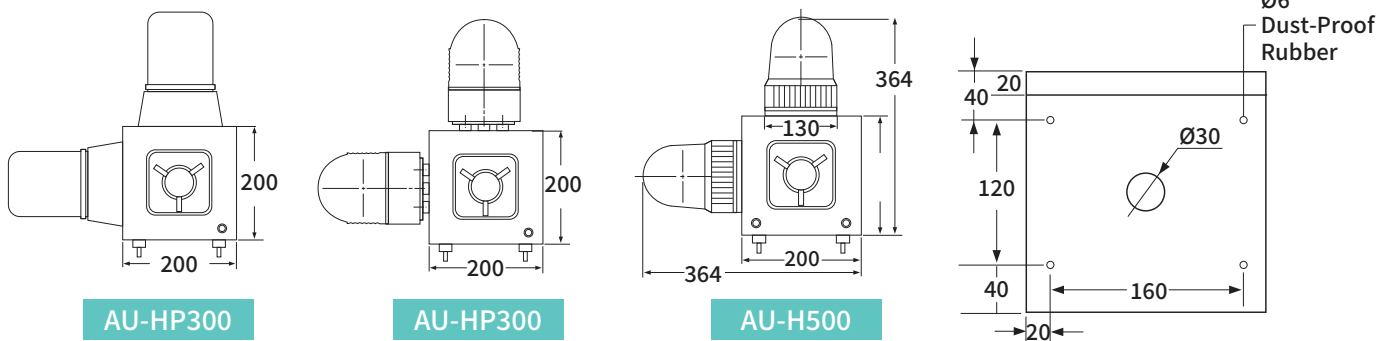
Warning Light L1	Warning Light L2	Operation		Color
AUW-L100	AUW-L100	1	2	Red (R)
AUW-L125	AUW-L125	Steady - Flashing		Yellow (Y)
AUW-L150S	AUW-L150S	Flashing - Rotation		Green (G)
Electronic Horn		AUP - EWH - 25W (P.35)		Blue (B)

4 Melody Sounds

CH 1	CH 2	CH 3	CH4
Home Sweet Home	Fur Elise	Turkish March	Piano Sonata

Technical Diagram

Unit: mm



Machine Light



SG-LED-ML-146



Nomenclature

①	-	②
Size(Length)		Voltage
146 : 146mm		220 : AC220V
280 : 280mm		110 : AC110V
414 : 414mm		24 : DC24V
548 : 548mm		

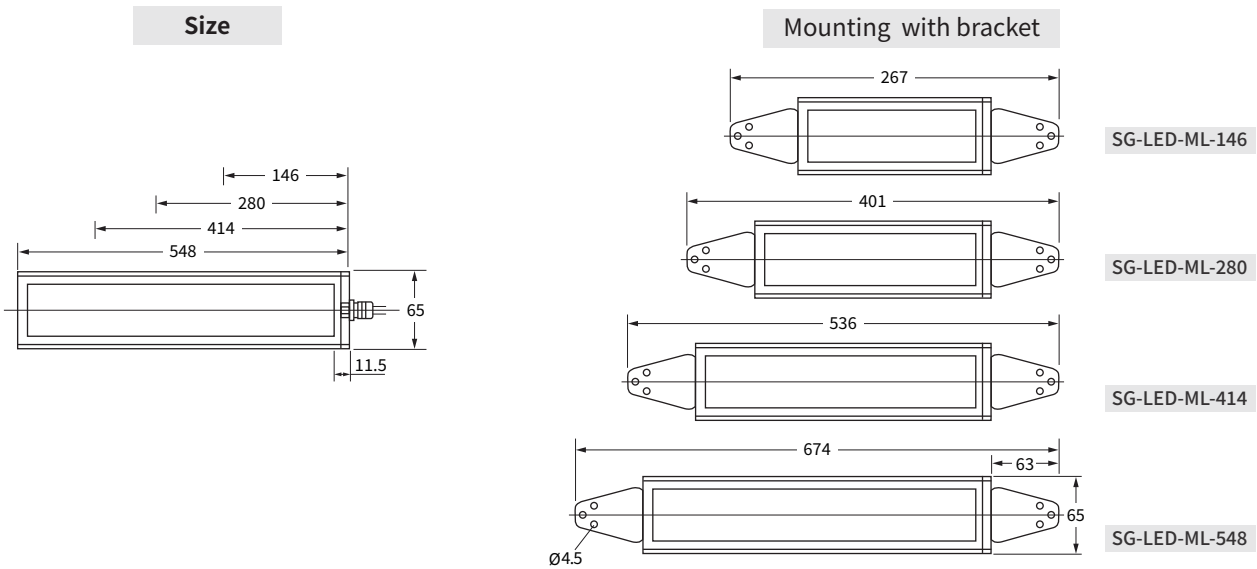
Machine Light

- The irradiation angle can be adjusted to the desired position using the provided bracket
- Efficient heat dissipation is achieved through the heat sink structure on the back of the product.
- The glass is frosted to reduce glare for the operator.
- Machine lights serve various purposes, including use on work sites, product assembly/inspection lines, machine tools, and wide-area lighting.
- With an IP65 waterproof rating, it can be reliably used in environments with splashing cutting oil or oily water, and is available in four different sizes.
- Input voltage : AC110V / 220V (50/60Hz) / DC24V
- Material : Body [Al] / Side [Al Die-casting]
Lens [PC light diffusion acrylic(ML-414, ML-146) /
Chemical heat strengthened glass(ML-280, ML-548)]
- Protection rating : IP65
- Operating Temperature : -20 ~ 85°C
- ※ Power Code length : 3m

Model	Size	Illuminance (at 1m)	Power consumption (AC / DC)	Weight
SG-LED-ML-146	65 X 50 X 146mm	165lux / 650lm	7W / 12W	770g
SG-LED-ML-280	65 X 50 X 280mm	280lux / 1300lm	14W / 24W	1200g
SG-LED-ML-414	65 X 50 X 414mm	460lux / 1950lm	21W / 36W	1570g
SG-LED-ML-548	65 X 50 X 548mm	615lux / 2600lm	28W / 48W	1800g

Technical Diagram

Unit: mm



Work Light



SG-WL-A220



SG-WL-C

Nomenclature

①

SG - WL -

Type

A220 : Basic

C : Rechargeable

Work Light

- It helps increase concentration during precision tasks such as work on ships, milling, and tapping, and can also be used as a general-purpose reading lamp.
- The work light can be used on-site by securing it in place with powerful neodymium magnets and flexible bellows.
- It can be easily turned on and off using the power button located on the head, and is available in both basic and rechargeable types for use according to the location.
- An LED lamp is mounted on the head.
- Bellows are connected to the headlamp to enable flexible movement.
- Uses a neodymium magnet with powerful magnetic force.
- Input voltage : AC220 V (50/60 Hz) / Rechargeable
- Color : Blue
- LED color : White
- Illuminance (at 20cm) : 1400 lux
- Operating temperature : -10 ~ 60°C



Switch



Headlamp



Magnet



DC jack



Product type	Basic	Rechargeable
Model	SG-WL-A220	SG-WL-C
Size(mm)(Including bellows)	Head Ø43mm / Length 525mm	Head Ø 43mm / Length 525mm
Input voltage	AC220V (50/60Hz)	18650 3.7V 2600Ah
Power Consumption	4W	Below 3.5W
Weight	172g	190g
Charging Time / Continuous Use Time	-	3hours / 5hours

Aluminum Profile LED Light



Nomenclature

①	②	③
Size	Color	Number of battery
SG - LED -		
1 : 150mm	S : Silver	000 : Basic (bracket)
2 : 298mm	B : Black	110 : Neodymium magnet (2EA) + switch
3 : 446mm		011 : Bellows with magnet + switch
4 : 594mm		100 : eodymium magnet (2EA) ※ 150mm Only
		010 : Switch

LED-1B / LED-1S

- ⊙ Glare is minimized by using PC light-diffusing acrylic.
- ⊙ Optimal performance is ensured with a powerful neodymium magnet.
- ⊙ The aluminum profile serves as both a housing and a heat sink.
- ⊙ There is no risk of fire caused by wiring damage.
- ⊙ Highly effective, especially in outdoor environments with unstable power supply.
- ⊙ LED Color : White / Red ,Blue (220V Only)
- ⊙ Illuminance : 63 lux (at 1m) / 190 lux(at 0.5m)
- ⊙ Input voltage : AC110V, AC220V (50/60Hz), DC24V
- ⊙ Operating Temperature : -10 ~ 60°C
- ⊙ Can be produced in a range of sizes up to 3.8m, in 148mm increments Various options can be selected.

※ Power Code length : 1m



Switch

Fixed bracket



Neodymium magnet

Bellows with magnet

Model	Size	Model	Size
SG-LED-1S (B)	25 X 33 X 150mm	SG-LED-3S (B)	25 X 33 X 150mm
SG-LED-2S (B)	25 X 32 X 298mm	SG-LED-4S (B)	25 X 32 X 298mm

Rechargeable LED Light



Nomenclature

①	②	③
Size	Type	Number of battery
SG - LED -		
1 : 150mm	C : Rechargeable	01 : 1ea
2 : 298mm		02 : 2ea

LED-1C / LED-2C

- ⊙ Product color : Black
 - ⊙ LED Color : White
 - ⊙ 2 neodymium magnets are mounted
- ※ Power Code length : 1m

Model	Size	Weight
SG-LED-1C-01	25 X 33 X 150mm	Approx. 180g
SG-LED-2C-02	25 X 32 X 298mm	Approx. 302g

Battery specifications

18650A 3.7V 2600mAh
Lithium-ion battery

Service voltage :
3.7V / Maimum 4.2V
Operating temperature :
-20 ~ 60°C

Charging :
Fully charged in 3 hours
Service time :
5 hours of continuous use

※ Charger is selling separatly

Power Distribution


 ※ The UL model is an order made.



SG-PD2L10-100A



SG-PD3L06-100A



SG-PD4L10-100A

Nomenclature

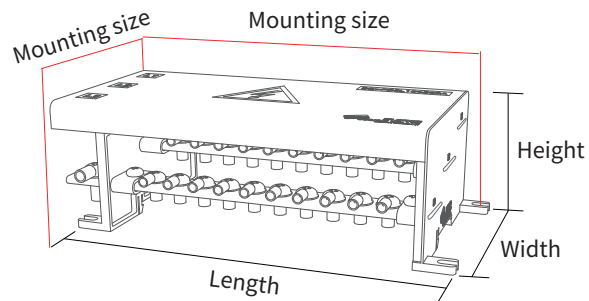
①	②	③	④
Product name	Power supply system	Number of terminals	Rated current
SG -	2L : 2L 3L : 3L 4L : 4L	6P : 6P 10P : 10P	50A : 50A 100A : 100A 200A : 200A
PD : Power Distribution			

Power Distribution

- The power distribution unit distributes secondary power from the main supply to the primary power lines of each phase.
- By improving the existing complex distribution method, it enhances installation efficiency.
- The PC cover and heat-resistant side plates provide excellent resistance to shock and heat, ensuring safe use.
- A removable protective cover is included to prevent accidents such as electric shock.
- The busbar direction (left/right) can be adjusted.
- Supports 35mm DIN rail mounting.
- Material : Side plate [MPPPO] / Cover [PC] 99.9% Copper + Tin plated busbar
- There is a capacity of 50A / 100A / 200A
- Rated input voltage : 600V
- Operating temperature : -20 ~ 110°C

Technical Diagram

Unit: mm



MODEL	Size(mm)	Busbar size	Power fix bolt size	Bolt size	Mounting & Hole size	Weight
SG-PD2L06-50A	119 X 49 X 45	2T X 10	M5	M4	108 X 39 / Ø4.2	90g
SG-PD3L06-50A	119 X 70 X 56	2T X 10	M5	M4	108 X 60 / Ø4.2	133g
SG-PD2L06-100A	132 X 59 X 48	3T X 15	M6	M5	117 X 49 / Ø4.2	173g
SG-PD2L10-100A	180 X 59 X 48	3T X 15	M6	M5	166 X 49 / Ø4.2	240g
SG-PD3L06-100A	132 X 85 X 60	3T X 15	M6	M5	117 X 75 / Ø4.2	265g
SG-PD3L06-200A	156 X 103 X 67	4T X 20	M8	M6	130 X 93 / Ø4.2	480g
SG-PD3L10-100A	180 X 85 X 60	3T X 15	M6	M5	166 X 75 / Ø4.2	357g
SG-PD3L10-200A	211 X 103 X 67	4T X 20	M8	M6	186 X 93 / Ø4.2	650g
SG-PD4L06-100A	132 X 111 X 72	3T X 15	M6	M5	117 X 101 / Ø4.2	355g
SG-PD4L10-100A	180 X 111 X 72	3T X 15	M6	M5	166 X 101 / Ø4.2	480g
SG-PD4L10-200A	211 X 135 X 81	4T X 20	M8	M6	186 X 123 / Ø4.2	878g

Power Distribution Terminal Block



※ The UL model is an order made.



SG-PD-100A



SG-PD-200A



SG-PD-250A



SG-PD-400A



SG-PD-400A



Nomenclature

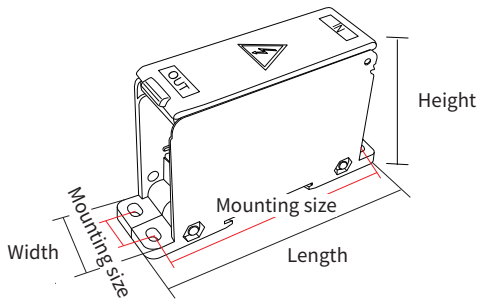
SG -	①	②	③
	Product name	Rated current	Number of terminals
PD : Power Distribution Terminal Block		100A : 100A	4P : 4P
		200A : 200A	6P : 6P
		250A : 250A	8P : 8P
		400A : 400A	9P : 9P
			12P : 12P

Power Distribution Terminal Block

- It is more compact than the existing type, allowing efficient use in limited spaces.
- The hinged protective cover helps prevent accidents such as electric shock.
- Installation and maintenance are convenient thanks to screw connections and channel mounting options on the main body.
- The protective cover enhances both safety and usability.
- Customers can choose wrench bolts for the output terminals to enhance operational stability.
- Material : Side plate [MPPPO] / Cover [PC] 99.9% Copper + Tin plated busbar
- Capacity 100A (interchangeable with 50A)/ 200A / 250A / 400A available
- Pitch : 20mm / 30mm / 40mm
- Rated input voltage : 600V
- Operating temperature : -20 ~ 110°C

Technical Diagram

Unit: mm



MODEL	Rated capacity	Pitch	Bolt size		Busbar size	Size(mm)	Mounting & Hole size	Weight
			IN	OUT				
SG-PD-100A-4P	600V 100A	20mm	M6	M4 x 2 M5 x 2	3T X 20mm	25 X 95 X 58	85.5 X 12.4mm Ø4.5	104g
SG-PD-100A-6P				M4 x 6				
SG-PD-200A-4P	600V 200A	30mm	M8	M5 x 2 M6 x 2	3T X 30mm	35 X 95 X 58	85.5 X 17.4mm Ø4.5	165g
SG-PD-200A-6P				M5 x 6				
SG-PD-200A-8P				M4 x 6 M5 x 2				163g
SG-PD-250A-9P	600V 250A	40mm	M8	M5 x 9	3T X 40mm	45 X 95 X 58	85.5 X 27.4mm Ø4.5	230g
SG-PD-250A-12P				M4 x 12				
SG-PD-400A-6P	600V 400A	40mm	M10	M8 x 6	4T X 40mm	45 X 148 X 83	136.4 X 22.3mm Ø5.5	419g
SG-PD-400A-8P				M8 x 2 M6 x 6				403g

NFB Power Distribution Terminal Block

 **UL** **RoHS** **CE**
※ The UL model is an order made.



SG-NPD-100A



SG-NPD-200A



SG-NPD-400A

Nomenclature

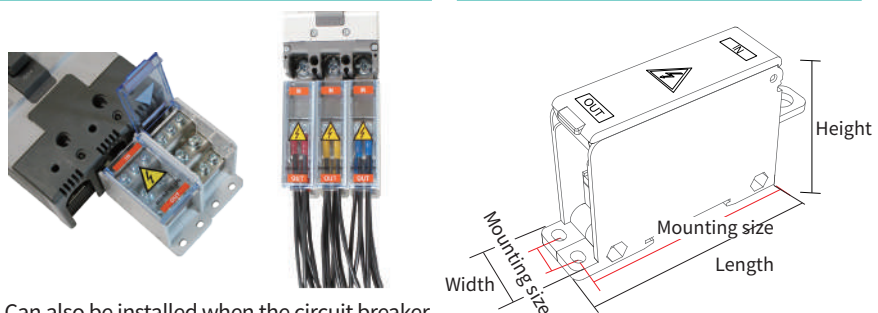
SG -	①	-	②	-	③
	Product name		Rated current		Number of terminals
	NPD : NFB Power Distribution Terminal Block		100A : 100A		4P : 4P
			200A : 200A		6P : 6P
			400A : 400A		8P : 8P

NFB Power Distribution Terminal Block

- The NFB terminal block-type power distribution unit is an upgraded version of the conventional terminal block-type model.
- A direct connection link to the main breaker is provided, eliminating the need for a separate terminal.
- The product has the same width as the breaker frame, allowing for space-saving and efficient installation.
- The PC protective cover prevents electric shock and ensures safe usage.
- The busbar is coated with 99.9% pure copper and tin, offering higher conductivity than brass for efficient operation.
- Customers can choose the wrench bolts option as the output bolts to obtain the use stability.
- Material : Side plate [MPPPO] / Cover [PC] 99.9% Copper + Tin plated busbar
- Capacity 100A (interchangeable with 50A)/ 200A / 400A available
- Pitch : 20mm / 30mm / 40mm
- Rated input voltage : 600V
- Operating temperature : -20 ~ 110℃

Application examples

Technical Diagram Unit: mm



※ Can also be installed when the circuit breaker protection cover is attached

MODEL	Rated capacity	Pitch	Bolt size		Busbar size	Size(mm)	Mounting & Hole size	Weight
			IN	OUT				
SG-NPD-100A-4P	600V 100A	20mm	Hole Ø9	M4 x 2 M5 x 2	3T X 20mm	25 X 93 X 58	12.4mm / Ø4.5	96g
SG-NPD-100A-6P				M4 x 6				
SG-NPD-200A-4P	600V 200A	30mm	Hole Ø10	M5 x 2 M6 x 2	3T X 30mm	35 X 99 X 58	17.4mm / Ø4.5	140g
SG-NPD-200A-6P				M5 x 6				
SG-NPD-200A-8P				M4 x 6 M5 x 2				
SG-NPD-400A-6P	600V 400A	40mm	Hole Ø12.5	M8 x 6	4T X 40mm	45 X 173 X 83	22.3mm / Ø5.5	397g
SG-NPD-400A-8P				M8 x 2 M6 x 6				382g

Power Distribution Kit



100A

200A



P cover support



Busbar support(3P/4P)

※ 100, 200A Cover Thickness 4T



2L

3L

4L

Nomenclature

SG -

①

Product name

②

Power supply system

③

Number of terminals

④

Rated current

PDK : Power Distribution Kit

2L : 2L

3L : 3L

4L : 4L

10P : 10P

12P : 12P

15P : 15P

100A : 100A

200A : 200A

Power Distribution Kit

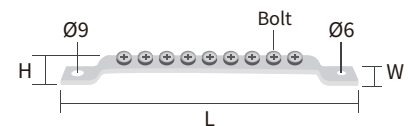
- Only the desired parts can be purchased separately.
- Protective covers are provided to prevent accidents such as electric shocks.
- Highly versatile with a large number of connection pins. (10P/12P/15P)
- Each busbar has a different height, making cable wiring more convenient.
- Material : Cover [PMMA] 99.9% Copper + Tin plated busbar / P cover support/ Busbar support [PVC]
- Capacity : 100A / 200A
- Pitch : 100A - 12mm / 200A - 14mm
- Rated input voltage : 600V
- Operating temperature : -20 ~ 110°C

Busbar height(H)

Unit: mm

Busbar	L1	L2	L3	L4
100A	-	11	18	25
200A	-	14	21	28

[Tolerance : ± 1mm]



MODEL	Busbar size (T X W X L /mm)	Mounting hole		Bolt size	Cover size (mm)	Mounting & Hole size
		Busbar	Breaker			
SG-PDK2L10-100A	3T X 15 X 189	Ø6	Ø9	M5 X 9.2	110 X 235	90 X 215mm / Ø7
SG-PDK3L10-100A					140 X 235	120 X 215mm / Ø7
SG-PDK4L10-100A					170 X 235	150 X 215mm / Ø7
SG-PDK2L12-100A	3T X 15 X 213	Ø6	Ø9	M5 X 9.2	110 X 260	90 X 240mm / Ø7
SG-PDK3L12-100A					140 X 260	120 X 240mm / Ø7
SG-PDK4L12-100A					170 X 260	150 X 240mm / Ø7
SG-PDK2L15-100A	3T X 15 X 249	Ø6	Ø9	M5 X 9.2	110 X 295	90 X 275mm / Ø7
SG-PDK3L15-100A					170 X 295	120 X 275mm / Ø7
SG-PDK4L15-100A					170 X 295	150 X 275mm / Ø7
SG-PDK2L10-200A	4T X 20 X 212	Ø6	Ø9	M6 X 12	155 X 260	135 X 240mm / Ø7
SG-PDK3L10-200A					155 X 260	135 X 240mm / Ø7
SG-PDK4L10-200A					190 X 260	170 X 240mm / Ø7
SG-PDK2L12-200A	4T X 20 X 240	Ø6	Ø9	M6 X 12	155 X 290	135 X 270mm / Ø7
SG-PDK3L12-200A					155 X 290	135 X 270mm / Ø7
SG-PDK4L12-200A					190 X 290	170 X 270mm / Ø7
SG-PDK2L15-200A	4T X 20 X 282	Ø6	Ø9	M6 X 12	155 X 330	135 X 310mm / Ø7
SG-PDK3L15-200A					155 X 330	135 X 310mm / Ø7
SG-PDK4L15-200A					190 X 330	170 X 310mm / Ø7

Earth Bar

RoHS

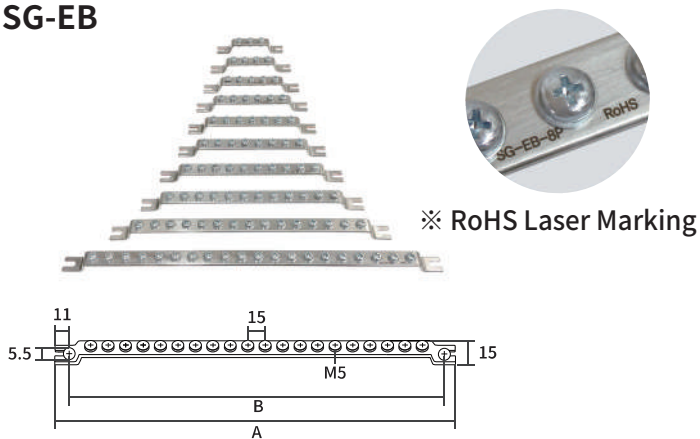
Earth Bar

- Earth bars are made of 99.9% copper and come in non-plated or tin-plated versions. They are available in various types, including single file, double file, and from 3P up to 30P.
- They are designed to ensure the safe grounding of electrical equipment.
- Materials: copper 99.9% / Tin-plated
- Pitch : 20mm / 30mm / 40mm
- Volts Size : M5(Single-file) / M4,M5(Double-file)

Nomenclature

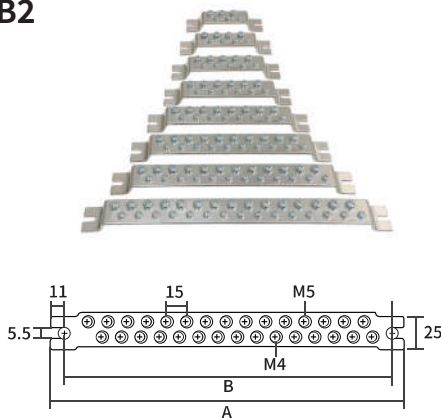
①	②	③
Product name	Type	Number of terminals
SG -	No mark : Single file	3 : 3P
EB : Earth Bar	2 : Double file bending type	4 : 4P
	3 : Double file straight type	30 : 30P

SG-EB



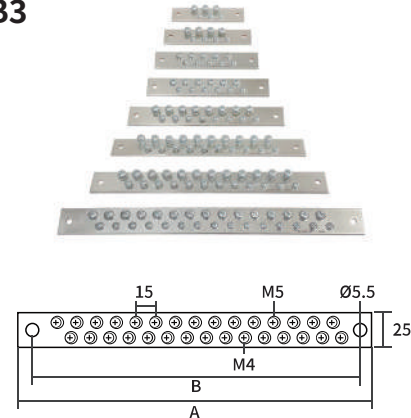
MODEL	Size(mm)				Weight
	A	B	Width	Thickness	
SG-EB-3P	92	75	15	3T	435g
SG-EB-4P	107	90			505g
SG-EB-5P	122	105			595g
SG-EB-6P	137	120			675g
SG-EB-7P	152	135			760g
SG-EB-8P	167	150			830g
SG-EB-10P	197	180			970g
SG-EB-12P	227	210			1120g
SG-EB-15P	272	255			1360g
SG-EB-20P	347	330			1760g

SG-EB2



MODEL	Size(mm)				Weight
	A	B	Width	Thickness	
SG-EB2-6P	99	82	25	3T	810g
SG-EB2-8P	114	97			930g
SG-EB2-10P	129	112			1070g
SG-EB2-12P	144	127			1190g
SG-EB2-16P	174	157			1440g
SG-EB2-20P	204	187			1720g
SG-EB2-24P	234	217			1950g
SG-EB2-30P	279	262			2350g

SG-EB3



MODEL	Size(mm)				Weight
	A	B	Width	Thickness	
SG-EB3-6P	99	82	25	3T	720g
SG-EB3-8P	114	97			860g
SG-EB3-10P	129	112			990g
SG-EB3-12P	144	127			1090g
SG-EB3-16P	174	157			1380g
SG-EB3-20P	204	187			1630g
SG-EB3-24P	234	217			1890g
SG-EB3-30P	279	262			2290g

Emergency Guard

RoHS



Model	Hole	Size	Weight
SG-EG22	Ø22	64 X 82 X 38mm	32g
SG-EG25	Ø25		
SG-EG30	Ø30		

Nomenclature

①	-	②	-	③
Product name		Hole Size		Color
EG : Emergency Guard		22 : Ø22 25 : Ø25 30 : Ø30		Y : Yellow W : White

Emergency Guard

- ⦿ The switch protection guard prevents misoperation of switches installed in machinery.
- ⦿ It protects both against accidental contact with the machine and damage to the switch itself with a durable hard case.
- ⦿ Commonly used for emergency stop switches in semiconductor manufacturing equipment, machine tools, food processing machines, medical devices, and more.
- ⦿ Color: Yellow / White
- ⦿ Material : PC

Emergency Guard Mini

Nomenclature

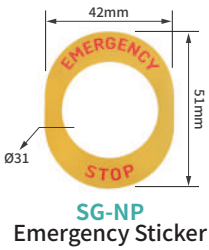
①	-	②
Product name		Hole Size
EGM : Emergency Guard Mini		16 : Ø16 22 : Ø22 25 : Ø25 30 : Ø30



Model	Hole	Size	Weight
SG-EGM16	Ø16	51 X 61 X 38mm	20g
SG-EGM22	Ø22		
SG-EGM25	Ø25		
SG-EGM30	Ø30		

Emergency Guard Mini

- ⦿ Various hole sizes and compact mini emergency guard.



Emergency Cover

RoHS

Nomenclature

①	-	②
Product name		Hole Size
EC : Emergency Cover		22 : Ø22 25 : Ø25 30 : Ø30



Model	Hole	Size	Weight
SG-EC22	Ø22	57 X 89 X 38mm	35g
SG-EC25	Ø25		
SG-EC30	Ø30		

Example of use



Emergency Cover

- ⦿ The switch protection cover shields the switch from external shocks, dust, and prevents potential misuse.
- ⦿ It fits various types and sizes of switches, and is easy to open and close thanks to its simple attachment and detachment design.
- ⦿ Protection rating: IP44
- ⦿ Color : Clear
- ⦿ Material : PC

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SIGNAL INFORMATION



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