SEGIBIZ

SEGIBIZ CO., LTD
ELECTRIC TECHNOLOGY

CATALOGUE

ELECTRIC TECHNOLOGY

- Signal Tower Lamp
- Warning Lamp
- Power Distribution
- LED Lamp
- Junction boxes

www.segibiz.co.kr

Signal Tower Lamp

Warning Lamp

Power Distribution

LED Lamp

Junction boxes

Honest & Trustworthy / The Best Company / Sincere Partner

SEGIBIZ CO., LTD

ELECTRIC TECHNOLOGY

Since 1991

- Honest & Trustworthy
- Sincere Partner
- Growing Company
- ISO 9001 Quality Management System
- Establishment of Research Center

Certification Status

Acquired ISO 9001 (Quality Management System Certificate)

Certified for mark use by TUV SUD, Germany

Acquired NRTL certification by TUV SUD, Germany

Acquired UL Certificate from UL (Testing Laboratory of American Insurance Association)

Acquired ATEX (explosion-proof) Certificate

II 2 Gb Ex e II IP67

Passed the EN (European Standards)

RoHS This approval confirms that no electronic products exported by the company to Europe from July 1, 2006 contain any of the following 10 harmful substances: Pb, Cd, Vl, PBBs, PBDEs, DEHP, BBP, DBP, and DIBP.

INNOBIZ
기술혁신형중소기업 A portmanteau of the words 'innovation' and 'business' used to refer to technically innovative small & medium sized companies that secure their competitiveness through their technical dominance.

History

2022

12. Developed Power Distribution 2L06, 3L06-50A
Conclusion of the new agency contract with Dongwon Industrial Systems
08. Developed Ø40 Signal Tower
06. Developed MC-N-02
04. 5 Color Signal Tower Redevelopment, ILOOKS shop renuwal open
03. Conclusion of the new agency contract with HM plus

2021

04. TB30PT development

2020

07. New product development : AL-50P-S / Short bar 2p
04. Developed MP, MPL(W)
03. Released AURORA Tower Light and Warning Light
01. Developed Power Distribution Terminal Block 400A
Developed NFB Power Distribution Terminal Block 400A

2019

08. Developed Industrial Socket Box
07. Developed Wire Connector
06. Developed NFB Power Distribution Terminal Block

2018

09. Developed HC Terminal Block / Heat-resisting Al Box
Acquired ROHS Certificate
03. Acquired UL for Power Distribution

2017

09. Acquired UL for CB / PB / AL Series Block(none)
04. Developed Power Distribution Terminal Block
Hanoi, Vietnam SAMSUNG SDI Vander registered
03. Developed Aluminum Profile Box Sloped Type

2016

06. Acquired LED Machine Light CE, IP65

2015

12. Acquired AL Series Block(none) TUV
Developed Canada & USA LED Machine Light
06. Developed Power Distribution and Signal Tower

2014

10. Developed Working Light
04. Concluded exclusive contract with METE ENERJI (Turkey)

2013

11. Acquired TUV NRTL for CB / PB Series
04. Signed exclusive contract with WEICON (Germany)
03. Registered as a supplier of Hyundai Motors, Chennai, India

2012

12. Acquired ATEX Explosion proof for AL without Terminal Series
Acquired TUV NRTL for TB Series

2011

03. Developed LED Light

2010

12. Selected as an excellent example of management consulting for small & medium companies
08. Moved to new extended building
01. Established the Shopping mall Brand 'BIZ Market', Obtained INNO- BIZ Certificate
Established company-affiliated R&D center

2009

12. Obtained Venture Enterprise Certification
11. Acquired TUV Mark
06. Renamed SEGIBIZ CO., LTD.

2006

06. Founded SEGI-BIZ CO., LTD.
04. First export of 'SG-CB-2201' to Toyota Motors
Developed SG-AL-30P

2005

10. Received citation from the Director of Small & Medium Business Administration
01. Obtained ISO 9001 Certification of International Quality Management System

2003

05. Developed PIN BOX TB-15P / TB-20P

2002

11. Moved to 128-67, Gamjeon 1(il)-dong, Busan

1999

05. Developed PIN BOX 6PT / 10P

1998

11. Developed PIN BOX 4P / 6P
04. Registered design patent and utility model

1993

03. Moved to #7-133, Busan Industrial Distribution Arcade, Gamjeon-dong, Sasang-gu, Busan

1991

12. Founded Segi Electronic F.A. in Yeonji-dong, jingu, Busan

Contents

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
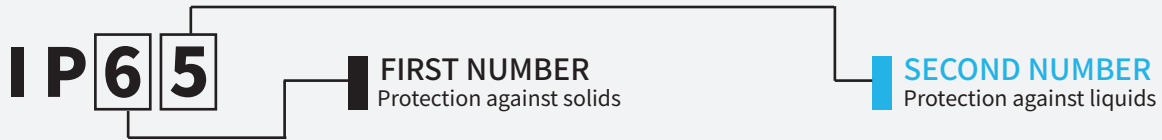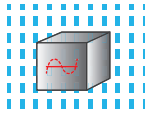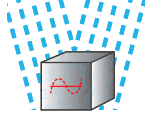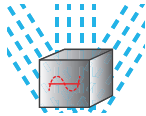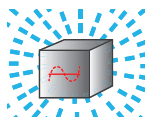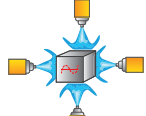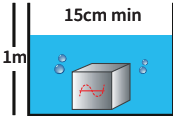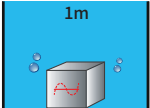
Solids

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

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

15cm min
1m
1m

IP65

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 in polyurethane materials using a Forming
Machine provides waterproofing and dustproofing effects.
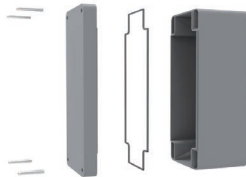
Volts- Covers-Polyurethane packaging- consists of a base
Mounting plates are available separately.
(No mounting plate for SG-AL-6171-48 /7093-52 models)

Product Specifications

Color: Gray
Tolerance: ± 1mm
Thickness: 3.5T ~ 4T
Operating temperature: -20°C ~ +180°C
Protection rating: IP67
Material: Aluminum (AL 12 types)

Safety Specifications

c(UL)us
LISTED   RoHS

Description

Aluminum boxes are basic junction boxes made from aluminum casting, and are mainly used in industrial machinery,
robotics, welding machines or automobiles, petrochemical plant facilities, oil supplies and gas supply facilities. Aluminum
boxes are easy to install and come in a variety of sizes tailored to the customer's needs, so they can be used in practical ways
that serve the user's convenience, and have obtained ROHS certification and UL certification, confirming the safe use of the
product.

Model	Size(mm)	Weight(g)	Model	Size(mm)	Weight(g)
SG-AL-6171-48	61 X 71 X 48	220	SG-AL-1010-08	100 X 100 X 80	580
SG-AL-7093-52	70 X 93 X 52	249	SG-AL-1212-08	120 X 120 X 80	690
SG-AL-1270-52	70 X 128 X 52	360	SG-AL-1222-09	125 X 223 X 90	1314
SG-AL-1111-52	110 X 110 X 52	398	SG-AL-1616-09	160 X 160 X 90	1205
SG-AL-1770-55	70 X 172 X 55	435	SG-AL-1621-10	160 X 210 X 100	1623
SG-AL-1214-62	125 X 145 X 62	566	SG-AL-1626-09	161 X 263 X 90	1699
SG-AL-8023-08	80 X 235 X 80	844	SG-AL-2333-12	230 X 330 X 120	3997
SG-AL-1219-08	125 X 190 X 80	944	SG-AL-2333-18	230 X 330 X 180	5237

ATEX Aluminum Box

Nomenclature

SG - [AL] - [6171] - [48]
  ①   ②   ③

① **Product name**
ATEX Aluminum Box

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

③ **Product height**
Height

Ex II 2 Gb Ex e II IP67

- Dust-proof & imersion class
- Symbol for indicating ATEX Electric device
- Increased safety type
- Marking symbol for explosion protected type

For gas and steam
in general business

(ZONE 1) Gas B class (ZONE 1)
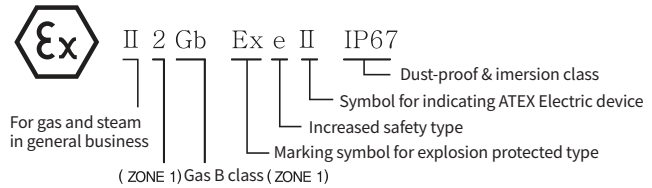
Feature

ATEX explosion proof accreditation
Ground terminal connection
(No ground connection line for AL - 7093 - 52,
1270-52, and 1770-55)
Use star L wrench, waterproof, dustproof
Mounting plates are available separately.
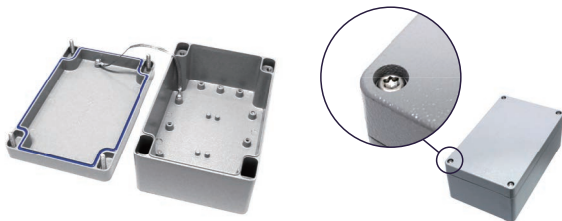
Product Specifications

Product Specifications
Color: Gray
Tolerance: ± 1mm
Thickness: 3.5T ~ 4T
Operating temperature: -20°C ~ +180°C
Protection rating: IP67
Material: Aluminum (AL 12 types)

Safety Specifications

Ex CE RoHS

Description

The ATEX aluminum explosion proof box is a product that has obtained ATEX explosion proof certification and is used for a range of purposes in various industries, including factory warehouses. It is additionally coated after polarization for protection. The ATEX aluminum explosion box is rated IP67 for protection against dust, and is waterproof for 30 minutes to a depth of 1 meter. The ATEX aluminum explosion proof box is available in 12 different sizes for a variety of applications where explosion proofing is required.

Model	Size(mm)	Weight	Model	Size(mm)	Weight
SG-AL-6171-48	61 X 71 X 48	220 g	SG-AL-8023-08	80 X 235 X 80	844 g
SG-AL-7093-52	70 X 93 X 52	249 g	SG-AL-1219-08	125 X 190 X 80	994 g
SG-AL-1270-52	70 X 128 X 52	360 g	SG-AL-1212-08	120 X 120 X 80	690 g
SG-AL-1111-52	110 X 110 X 52	398 g	SG-AL-1222-09	125 X 223 X 90	1314 g
SG-AL-1770-55	70 X 172 X 55	435 g	SG-AL-1616-09	160 X 160 X 90	1205 g
SG-AL-1214-62	125 X 145 X 62	566 g	SG-AL-1626-09	161 X 263 X 90	1699 g

Aluminum Terminal Box

Nomenclature

SG - [AL] - [4P]
      ①   ②

① **Product name**
   Aluminum Terminal Box

② **Number of pins**
   4 - 50 Pin
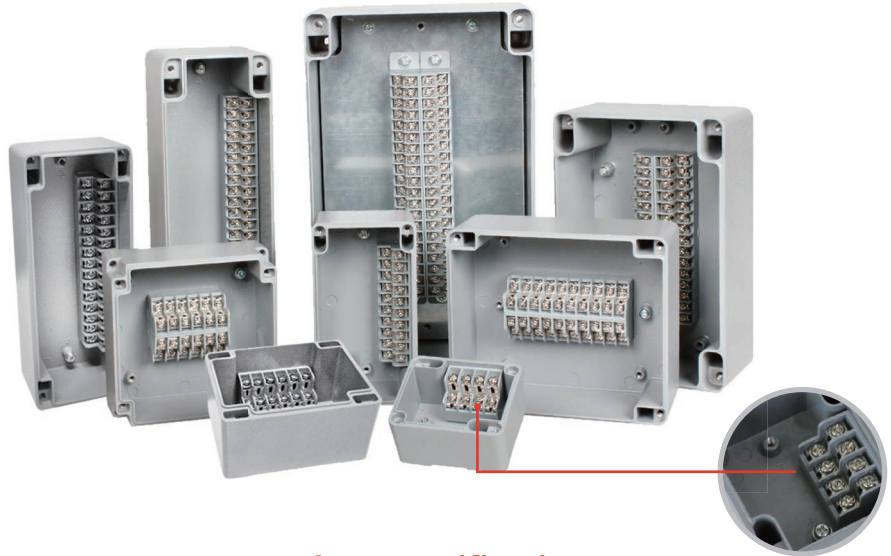
Feature

This is all-in-one type terminal with various sizes and terminal types, and its polyurethane foaming is effective for waterproofing and dust proofing, and is highly productive and efficient.

Electrical Specifications

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

Safety Specifications

CE TÜV SÜD RoHS

Product Specifications

Color: Gray
Tolerance: ± 1mm
Thickness: 3.5T ~ 4T
Operating temperature: -20℃ ~ +70℃
Protection rating: IP67
Material: Aluminum (AL 12 types),
ABS incombustible (Terminal Block)
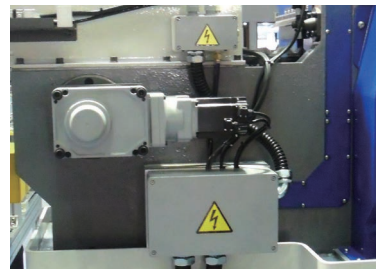
Description

The aluminum terminal box is an integrated junction box with terminals located inside the box.
Our aluminum terminals are manufactured from aluminum (AL 12 type) with a standard rating of 10 Amp to 250 V, and the exterior is painted in gray. Just like our aluminum boxes, the aluminum terminal boxes are packed with polyurethane gasket foaming, providing excellent waterproofing and dust proofing, and are used in a wide range of industrial machinery, robotics, commercial wiring and low voltage control systems.

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

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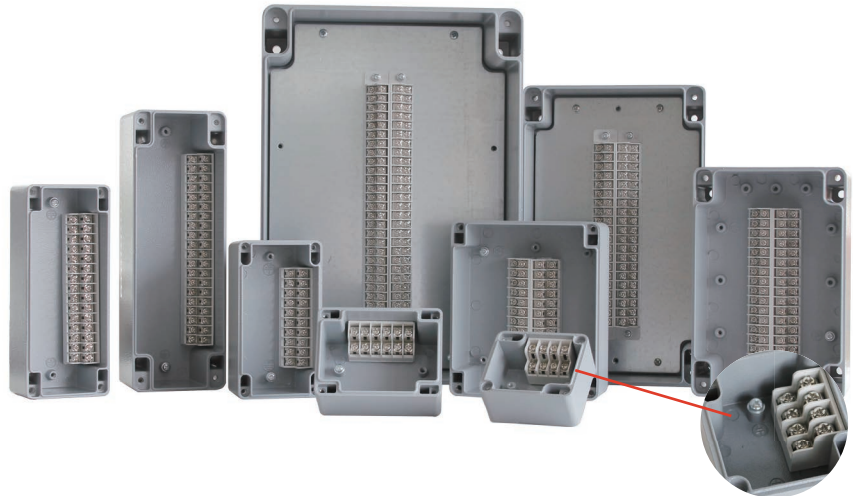
Feature
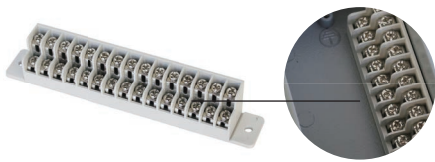
Use of heat-resistant terminals that can be used in temperatures up to 400℃.
Able to work in hotter environments than the AL aluminum series.

Product Specifications

Color: Box - Gray / Terminal Block - Ivory
Tolerance: ± 1mm
Thickness: 3.5T ~ 4T
Operating temperature: -20℃ ~ +180℃
Protection rating: IP67 / NEMA 12X
Material: Aluminum (AL 12 types),
heat-resistant material (Terminal Block)

Electrical Specifications

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

Safety Specifications

RoHS

Description

The heat-resistant aluminum terminal box uses a heat-resistant terminal stand in a box made of aluminum castings, making it more heat-resistant than other terminal boxes, which allows it to be used in environments with higher ambient temperatures. Like the aluminum terminal box of SEGIBIZ it is made to the same standard rating, has excellent waterproof and dust proof effects, and is the same size, so it can be used in various industrial facilities that require 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 : 10 A
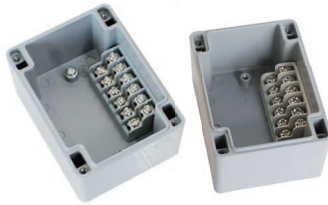
SG - AL / HL - 6P
- Size(mm) : 70 X 93 X 52
- Weight : 283g
- Allowable current : 10 A
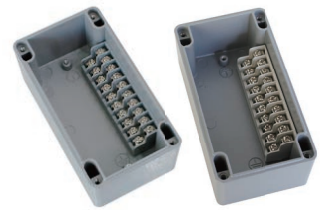
SG - AL / HL - 10P
- Size(mm) : 70 X 128 X 52
- Weight : 374g
- Allowable current : 10 A
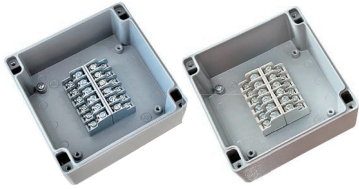
SG - AL / HL - 12P
- Size(mm) : 110 X 110 X 52
- Weight : 482g
- Allowable current : 10 A

SG - AL / HL - 15P
- Size(mm) : 70 X 172 X 55
- Weight : 529g
- Allowable current : 10 A
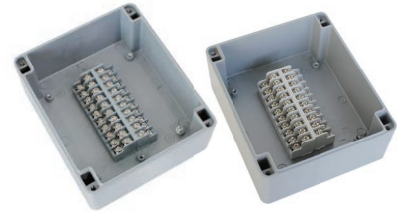
SG - AL / HL - 20P
- Size(mm) : 125 X 145 X 62
- Weight : 669g
- Allowable current : 10 A
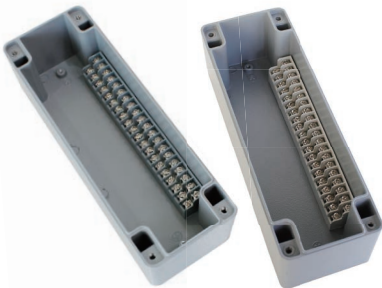
SG - AL / HL - 20PT
- Size(mm) : 80 X 235 X 80
- Weight : 957g
- Allowable current : 10 A
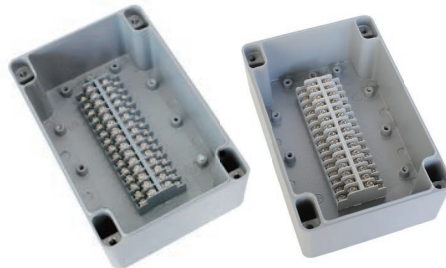
SG - AL / HL - 30P
- Size(mm) : 125 X 190 X 80
- Weight : 1205g
- Allowable current : 10 A
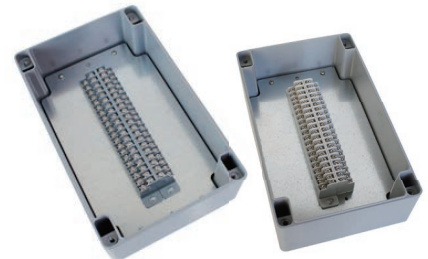
SG - AL / HL - 40P
- Size(mm) : 161 X 263 X 90
- Weight : 1822g
- Allowable current : 10 A
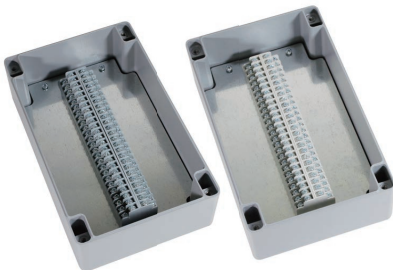
SG - AL / HL - 50P - S
- Size(mm) : 161 X 263 X 90
- Weight : 2447g
- Allowable current : 10 A
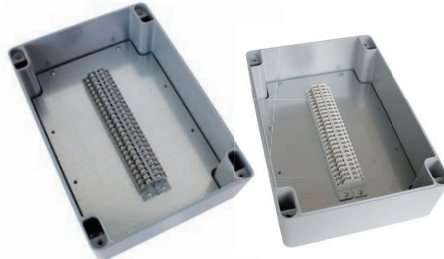
SG - AL / HL - 50P - L
- Size(mm) : 230 X 330 X 120
- Weight : 5237g
- Allowable current : 10 A

MEMO

Aluminum Push Button Box

Nomenclature

SG - CB - 22 01
　　　① 　② ③

① **Product name**
Aluminum Control Box

② **Hole size**
Hole-free / 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.

Example of use

Safety Specifications

c(UL)us LISTED　**RoHS**

Product Specifications

Color: Base – Black / Cover – White
Tolerance: ± 1mm
Operating temperature: -20℃ ~ +180℃
Hole size: 22mm / 25mm / 30mm
Material: Aluminum (AL 12 types)
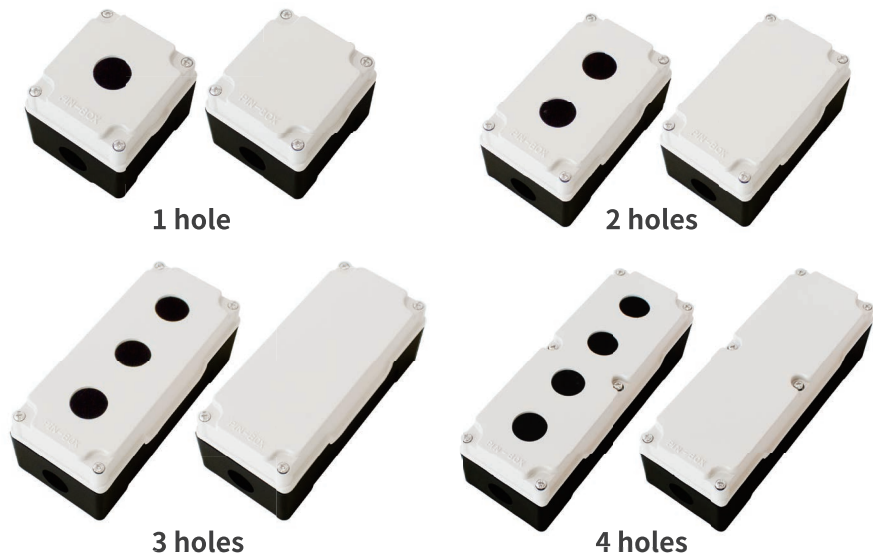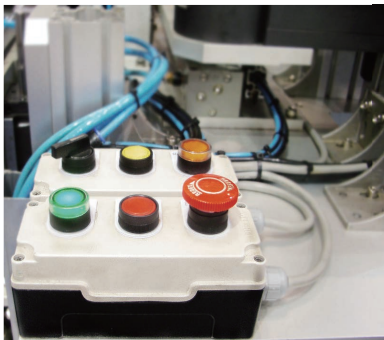
1 hole

2 holes

3 holes

4 holes

Hole	Ø	Model	Size(mm)	Weight(g)	Hole	Ø	Model	Size(mm)	Weight(g)
1 hole	Hole-free	SG-CB-0001	80 X 90 X 70	385	3 holes	Hole-free	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	Hole-free	SG-CB-0002	80 X 135 X 70	481	4 holes	Hole-free	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 boxes come in two colors – gray and ivory – with three types of covers : gray, ivory and transparent. Excellent waterproofing and dustproofing thanks to the polyurethane packing.
Terminal integrated box using incombustible ABS, with various customized sizes available for user convenience.

Product Specifications

Color: Gray, Ivory, Transparent cover
Tolerance: ± 1mm
Operating temperature: -20℃ ~ +70℃
Protection rating: IP65 / NEMA 6X
Material: Incombustible ABS / Transparent cover Polycarbonate
Mounting hole size: 0.17 in

Electrical Specifications

Allowable current: 10 A / 15 A
Rated frequency: 50Hz
Rated input voltage: AC 250 Volts
Withstand voltage: 1880V / 1 minute

Safety Specifications

CE   TUV SÜD   RoHS

Description

Plastic terminal boxes use incombustible 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	Model	Size(mm)	Weight
SG -TB - 4P	50 X 85 X 40	80 g	SG - TB - 15P15	100 X 200 X 65	423 g
SG - TB - 4P15	52 X 90 X 45	94 g	SG - TB - 15PT	75 X 170 X 55	290 g
SG - TB - 4PT	65 X 65 X 45	99 g	SG - TB - 20P15	150 X 160 X 65	479 g
SG - TB - 6P	55 X 85 X 40	88 g	SG - TB - 20PT	80 X 235 X 56	440 g
SG - TB - 6P15	65 X 90 X 45	135 g	SG - TB - 30P	125 X 190 X 65	527 g
SG - TB - 6PT	65 X 80 X 45	115 g	SG - TB - 30PT	125 X 190 X 65	527 g
SG - TB - 10P15	90 X 100 X 45	183 g	SG - TB - 40P	160 X 260 X 90	1421 g
SG - TB - 10PT	65 X 110 X 45	156 g	SG - TB - 50P	160 X 260 X 90	1522 g
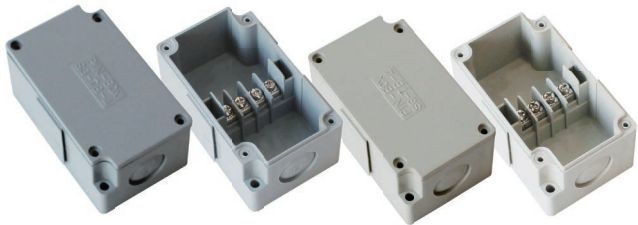
SG-TB-4P   10 A
- Size(mm) : 50 X 85 X 40
- Weight : 80g
- Color : Gray, Ivory
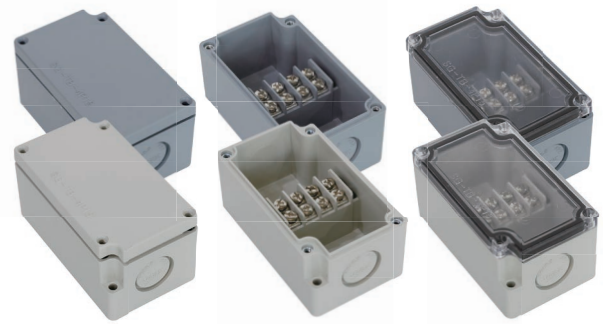
SG-TB-4P15   15 A
- Size(mm) : 52 X 90 X 45
- Weight : 94g
- Color : Gray, Ivory, Transparent cover
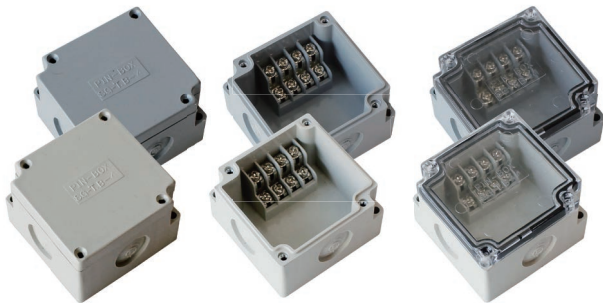
SG-TB-4PT   10 A
- Size(mm) : 65 X 65 X 45
- Weight : 99g
- Color : Gray, Ivory, Transparent cover
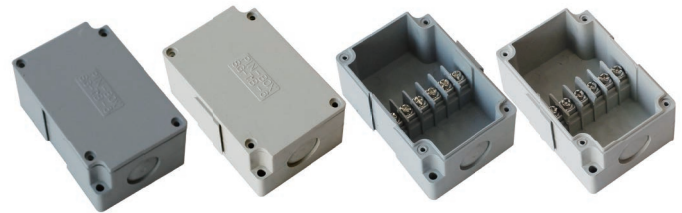
SG-TB-6P   10 A
- Size(mm) : 55 X 85 X 40
- Weight : 88g
- Color : Gray, Ivory
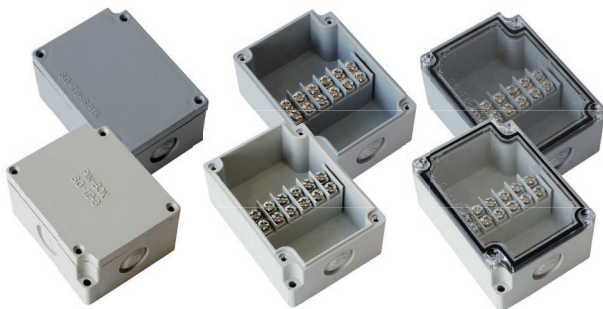
SG-TB-6P15   15 A
- Size(mm) : 65 X 90 X 45
- Weight : 135g
- Color : Gray, Ivory, Transparent cover
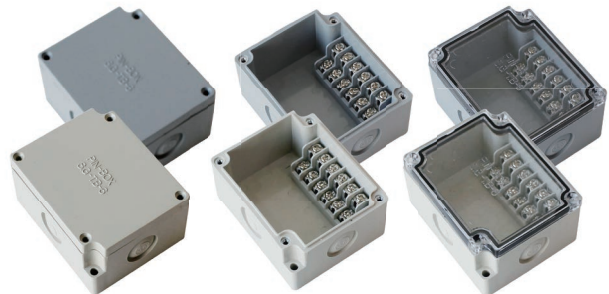
SG-TB-6PT   10 A
- Size(mm) : 65 X 80 X 45
- Weight : 115g
- Color : Gray, Ivory, Transparent cover

SG-TB-10P15   15 A
- Size(mm) : 90 X 100 X 45
- Weight : 183g
- Color : Gray, Ivory, Transparent cover

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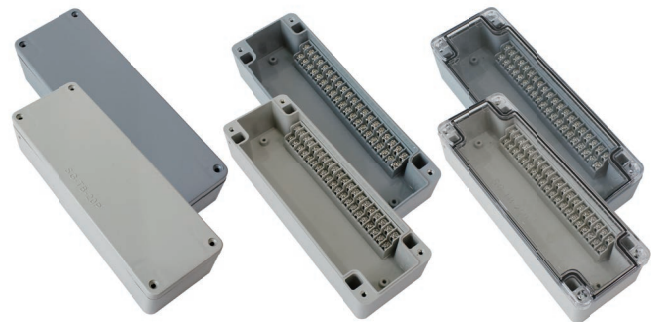
SG-TB-20PT   10A

- Size(mm) : 80 X 235 X 56   • Weight : 440g
- Color : Gray, Ivory, Transparent cover
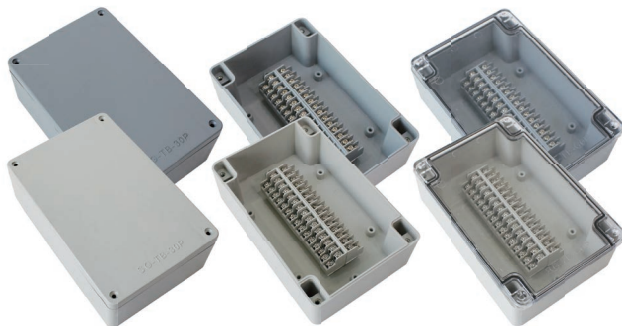
SG-TB-30P   10A

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

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

Nomenclature

SG - JB - 802305
①   ②

① **Product name**
Plastic Junction Box

② **Product size**
Width x length x height

RoHS

Product Specifications

Color: Gray / Ivory / Transparent cover
Tolerance: ± 1mm
Operating temperature: -20℃ ~ +70℃
Protection rating: IP65 / NEMA 6X
Material: Incombustible ABS /
        Transparent cover Polycarbonate

Model	Size(mm)	Weight(g)
SG-JB-802305	80 X 235 X 56	300
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**
Ø22 / Ø25 / Ø30

③ **Number of holes**
1 / 2 / 3 / 4 Holes

④ **Product height**
55mm / 70mm

⑤ **Cover color**
Red, Yellow, White

Feature

UL approved product
The plastic push button box has a hole (Ø22 / Ø25 / Ø30) in the cover so that the switch can be installed without a separate process.

Product Specifications

Color: Red, Yellow, White (Cover) / Black (Base)
Tolerance: ± 1mm
Operating temperature: -20℃ ~ +110℃
Material: Polycarbonate

Description

The plastic pushbutton box is made in three colors: red, yellow, and white. Plastic push button boxes 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.
This plastic push button box is designed to be durable and easy to install using PC materials.

Safety Specifications

c(UL)us LISTED   **RoHS**

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
- Cover color : White, Yellow
- Hole size : Ø12, Ø16
- Weight : 139g

Mini 2 holes

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

1 hole

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

2 holes

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

3 holes

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

4 holes

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

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	Hole-free Ø22 Ø25 Ø30	SG-PB-0001 SG-PB-2201 SG-PB-2501 SG-PB-3001	90 X 80 X 55 90 X 80 X 70	178g	3 holes	Ø22 Ø25 Ø30	SG-PB-2203 SG-PB-2503 SG-PB-3003	180 X 80 X 55 180 X 80 X 70	253g
2 holes	Hole-free Ø22 Ø25 Ø30	SG-PB-0002 SG-PB-2202 SG-PB-2502 SG-PB-3002	135 X 80 X 55 135 X 80 X 70	231g	4 holes	Ø22 Ø25 Ø30	SG-PB-2204 SG-PB-2504 SG-PB-3004	220 X 80 X 55 220 X 80 X 70	303g

Aluminum Profile Box

Nomenclature

SG - MB - 100 A
① ② ③

① **Product name**
Multi Box

② **Product length**
60 - 4000mm

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 / Side plate - Orange
Tolerance: ± 1mm
Operating temperature: -20℃ ~ +70℃
Material: Aluminum profile (anodizing) /
       ABS incombustible (side plate)

Height
Length
Width
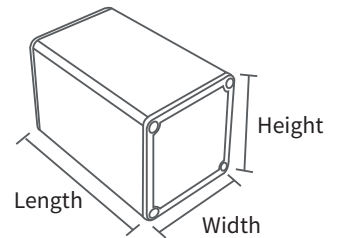
Description

Our aluminum profile boxes are lightweight, rugged and customizable to up to 4M in length.
They also allow special marking with round, square, and other special shape-tapping and laser marking as desired.
This product is frequently used in various automation facilities and electronic machines, and is convenient to use, as it is specifically designed to be used as a push button box for mechanical equipment.

Example of use

Product Type

M

H 50mm
Length
W 50mm

50
+ 50
SEGI-BIZ
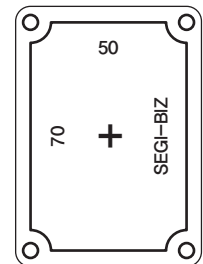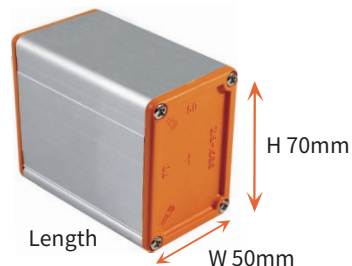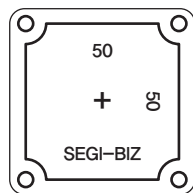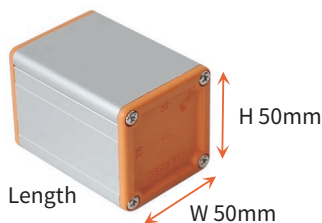
M Type
• Size(mm) : 50(W) mm X 50(H) mm X Length
• Thickness : 1.2 T

MA

H 70mm
Length
W 50mm

50
70 +
SEGI-BIZ

MA Type
• Size(mm) : 50(W) mm X 70(H) mm X Length
• Thickness : 1.2 T
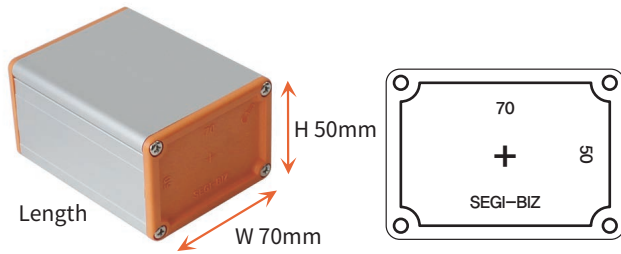
A Type
- Size(mm) : 70(W) mm X 50(H) mm X Length
- Thickness : 1.2 T
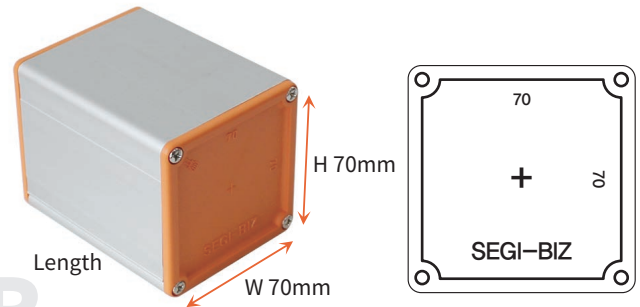
B Type
- Size(mm) : 70(W) mm X 70(H) mm X Length
- Thickness : 1.4 T
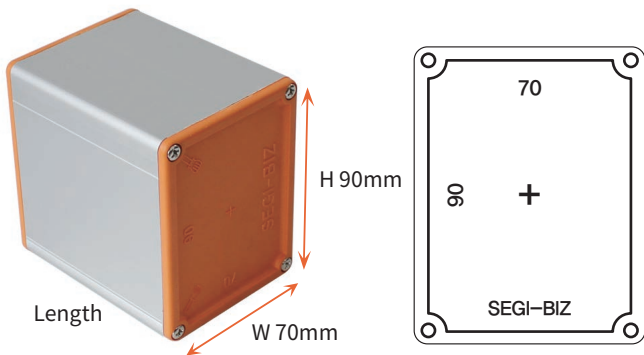
C Type
- Size(mm) : 70(W) mm X 90(H) mm X Length
- Thickness : 1.6 T
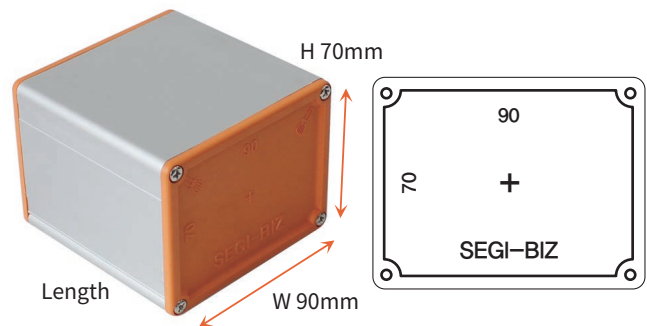
D Type
- Size(mm) : 90(W) mm X 70(H) mm X Length
- Thickness : 1.4 T
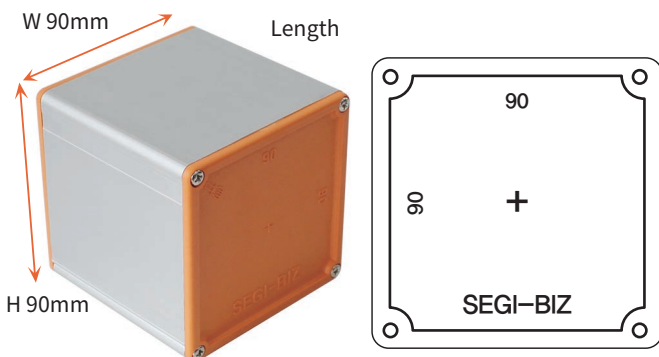
E Type
- Size(mm) : 90(W) mm X 90(H) mm X Length
- Thickness : 1.6 T

Aluminum Profile Box

M Size: 50 X 50 T: 1.2	**MA** Size: 50 X 70 T: 1.2
A Size: 70 X 50 T: 1.2	**B** Size: 70 X 70 T: 1.4
C Size: 70 X 90 T: 1.6	**D** Size: 90 X 70 T: 1.4
	E 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

Because the product has holes
(Ø12, Ø16, Ø22, Ø25, Ø30),
it can be easily used as a switch
box without a separate process.
Laser nameplate marking on
the product is also available

Product Specifications

Color : Main body - Silver /
        Side plate - Orange
Tolerance : ± 1mm
Operating temperature : -20℃ ~ +70℃
Material : Aluminum profile (anodizing) /
        ABS incombustible (side plate)

M ~ MA : 35mm
A ~ E : 55mm

Height
Length
Width
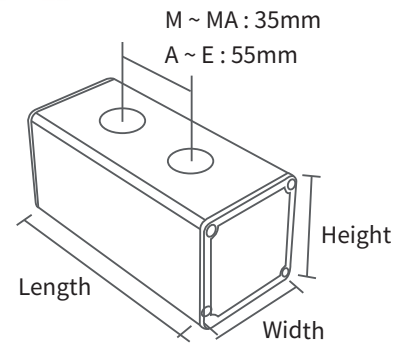
Model	Size(mm)				Model	Size(mm)			
	Type	Width	Height	Length		Type	Width	Height	Length
SG-MS-1201 SG-MS-1601	M MA	50 50	50 70	70	SG-MS-1204 SG-MS-1604	M MA	50 50	50 70	175
SG-MS-1202 SG-MS-1602	M MA	50 50	50 70	105	SG-MS-1205 SG-MS-1605	M MA	50 50	50 70	210
SG-MS-1203 SG-MS-1603	M MA	50 50	50 70	140	SG-MS-1206 SG-MS-1606	M MA	50 50	50 70	245
SG-MS-2201 SG-MS-2501 SG-MS-3001	A B C D E	70 70 70 90 90	50 70 90 70 90	90	SG-MS-2204 SG-MS-2504 SG-MS-3004	A B C D E	70 70 70 90 90	50 70 90 70 90	255
SG-MS-2202 SG-MS-2502 SG-MS-3002	A B C D E	70 70 70 90 90	50 70 90 70 90	145	SG-MS-2205 SG-MS-2505 SG-MS-3005	A B C D E	70 70 70 90 90	50 70 90 70 90	310
SG-MS-2203 SG-MS-2503 SG-MS-3003	A B C D E	70 70 70 90 90	50 70 90 70 90	200	SG-MS-2206 SG-MS-2506 SG-MS-3006	A B C D E	70 70 70 90 90	50 70 90 70 90	365

Aluminum Profile Box Sloped Type

Nomenclature

SG - MP - 100
    ①   ②

① **Product name**
Multi Pentagon Box

② **Product length**
100 - 4000mm
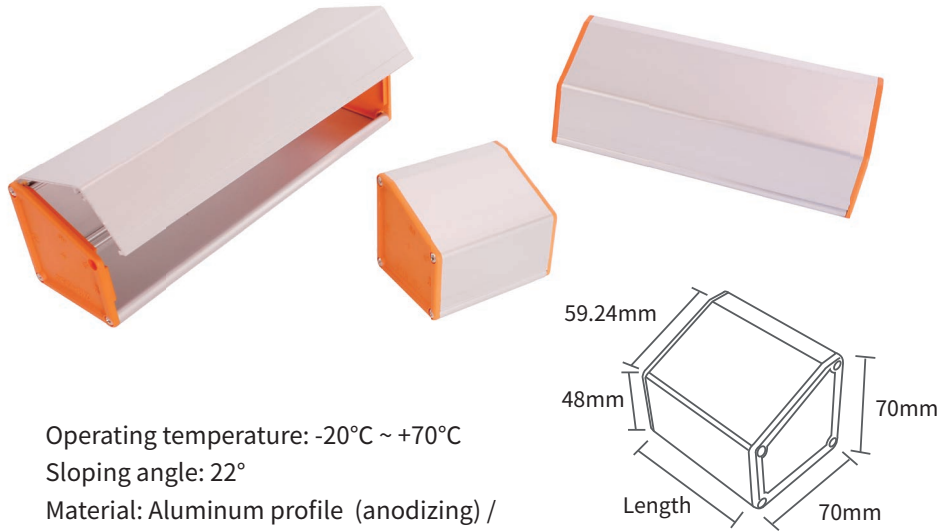
59.24mm

48mm   70mm

Length   70mm

Product Specifications

Color: Main body - Silver /
        Side plate - Orange
Tolerance: ± 1mm

Operating temperature: -20℃ ~ +70℃
Sloping angle: 22°
Material: Aluminum profile (anodizing) /
   ABS incombustible (side plate)

Description

Like a general profile box, this allows you to work on the name plate with the product length and special hole processing and laser marking. In particular, the profile sloped box, with its sloped top surface, is more convenient when used as a push button box, and is excellent in terms of exterior appearance.

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**
Ø22 / Ø25 / Ø30

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

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

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)

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

80mm
50mm
Height
Width
Length
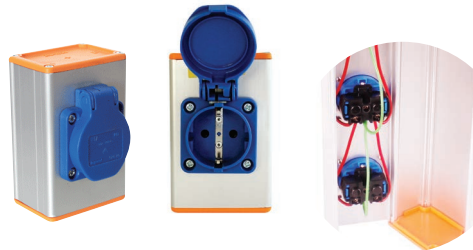
Specifications

Color: Main body - Silver /
      Side plate - Orange
Voltage / Current: AC220V~240V / 16A
Tolerance: ± 1mm
Operating temperature: -20℃ ~ +70℃
※ Can be customized
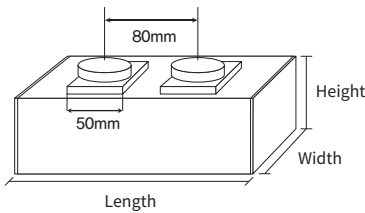
Model	Size(mm)			Model	Size(mm)		
	Width	Height	Length		Width	Height	Length
SG-MC-01	70	50	108	SG-MC-04	70	50	348
SG-MC-02			188	SG-MC-05			428
SG-MC-03			268	SG-MC-06			508

Nomenclature

SG - [MC][L] - [02]
①   ②   ③

① **Product name**
Multi Socket Box

② **Outlet direction**
Horizontal type (W) /
Vertical type (L)

③ **Number of Sockets**
2 / 4 / 6 / 8ea

28   85   50   85   28
Height
Width
Length

■ Vertical type (L)

■ Horizontal type (W)

Specifications

Color: Main body - Silver / Side plate - Orange
Operating temperature: -20℃ ~ +70℃

※ AC 110V 220V types are available /
Can be customized
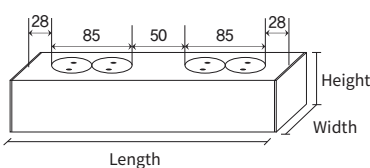
Model	Size(mm)			Model	Size(mm)		
	Width	Height	Length		Width	Height	Length
SG-MCL(W)-02	70	50	141	SG-MCL(W)-06	70	50	411
SG-MCL(W)-04			276	SG-MCL(W)-08			546

Aluminum Profile Socket Box Sloped Type

Nomenclature

SG - | MP | - | 01 |
    ①   ②

① **Product name**
Multi Pentagon Socket Box

② **Number of Sockets**
1 / 2 / 3 / 4 / 5 / 6ea

Product Specifications

※ Tolerance : ± 1mm

Color : Main body - Silver / Side plate - Orange / Socket - Blue
Voltage / Current : AC220V~240V / 16A
Material : Aluminum profile (anodizing) /
          ABS incombustible (side plate)
Operating temperature : -20℃ ~ +70℃
Sloping angle : 22°

80mm
59.24mm
43mm
48mm
50mm
70mm
70mm
Length
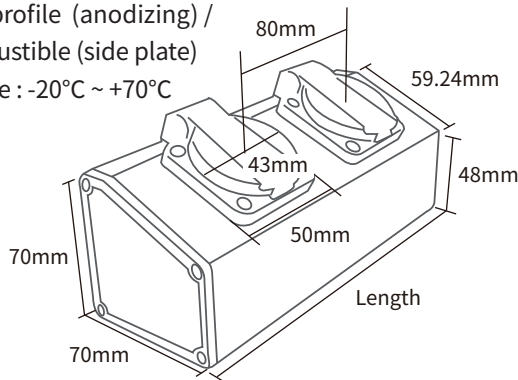
Model	Size(mm)		
	Width	Height	Length
SG-MP-01			108
SG-MP-02			188
SG-MP-03	70	70	268
SG-MP-04			348
SG-MP-05			428
SG-MP-06			508

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
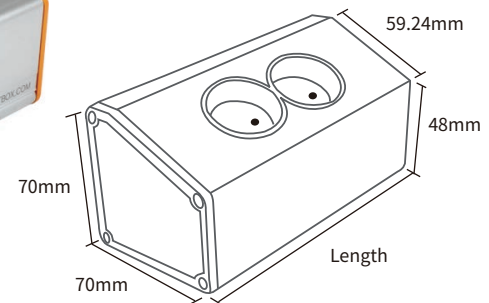
59.24mm
48mm
70mm
70mm
Length

Product Specifications

Color : Main body - Silver / Side plate - Orange
Material : Aluminum profile (anodizing) /
          ABS incombustible (side plate)
Tolerance : ± 1mm
Operating temperature :
 -20℃ ~ +70℃
Sloping angle : 22°

Top Surface

28   85   50   85   28
59.24mm
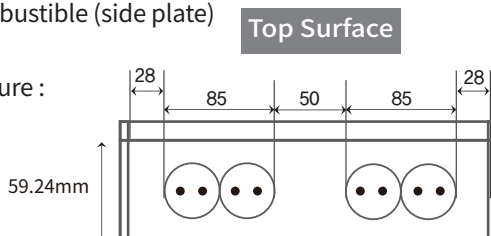
Model	Size(mm)		
	Width	Height	Length
SG - MPW - 02	70	70	141
SG - MPW - 04			276
SG - MPW - 06	70	70	411
SG - MPW - 08			546

※ Various user options and customizations available

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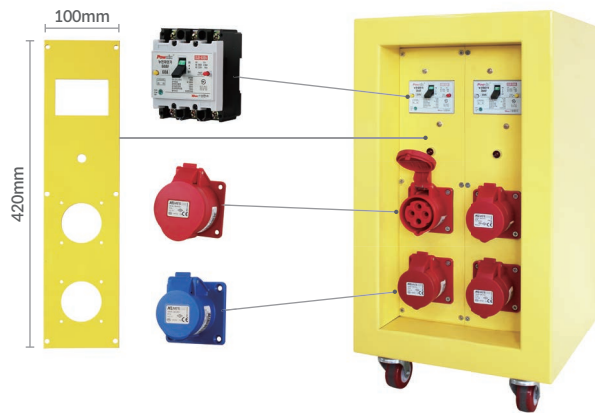
Portable Power Supply		
Box	Size	300(W) X 520(H) X 300(D)mm
	Thickness / Weight	1.6T / 19kg
Circuit breaker	Type	ELB-3P (2ea)
	Breaking Capacity	2.5kA
Socket	Type	406506V(4P16)
	EA	4
	Voltage	380-415V
	Current	16A
	Protection Rating	IP44

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

Product Specifications

Color : Yellow   Material : Steel   Circuit breaker's Voltage / Current : AC460V / 30A
Tolerance : ± 1mm   Operating temperature : -20℃ ~ +70℃   ※ Can be customized

Description

30A, 50A, 60A improves the traditional method of supplying power by conneeting wires directly to the distribution board, making it simple to supply power to the plug.
It has a short circuit breaker that fits the capacity to prevent accident and saves space with its compact design.

Breaker Type Industrial Socket Box

Specifications

Color: Main body - Silver / Side plate - Orange   Material : Aluminum profile (anodizing) / Flame-resistant ABS (side plate)
Tolerance : ± 1mm   Operating temperature : -20℃ ~ +70℃   ※ 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

Power Distribution

Nomenclature

SG - PD 2L 06 - 100A
① ② ③ ④

① **Product name**
Power Distribution

② **Power supply system**
2L / 3L / 4L

③ **Number of terminals**
6P / 10P

④ **Rated current**
50A / 100A / 200A

SG-PD2L10-100A

SG-PD3L06-100A

SG-PD4L10-100A
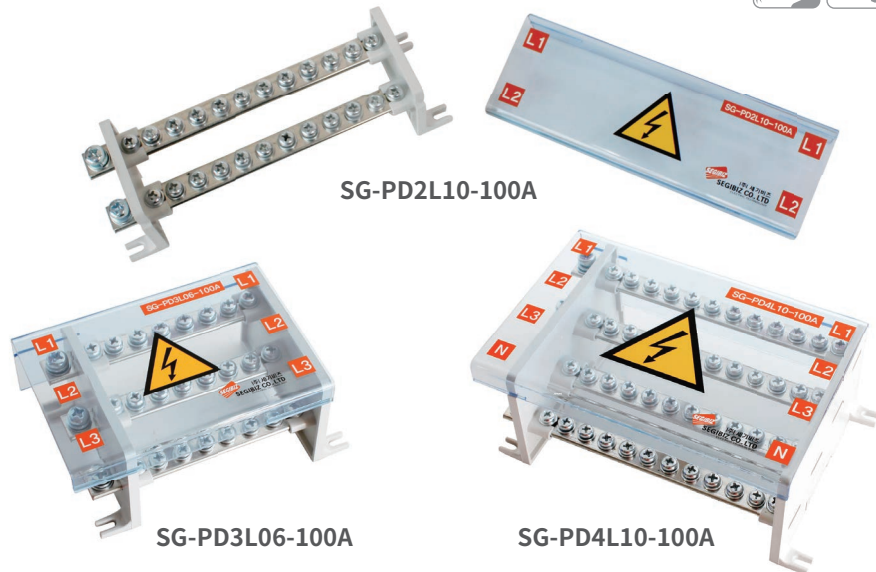
Feature

UL approved product
There is a removable protective cover to protect against electric shock accidents.
Busbar direction (left, right) position can be changed.
35mm DIN rail mounting is possible.

Electrical Specifications

Allowable current : 50A / 100A / 200A
Rated input voltage : 600V

Safety Specifications

RoHS c UL us

Product Specifications

Tolerance : ± 1mm
Operating temperature : -20℃ ~ +110℃
Material : Heat-resistant material / Polycarbonate (Cover)
99.9% CU + Tin plated busbar

Description

The power distribution is a device that distributes the secondary power supplied from the main power to the primary power of each phase. By improving on the existing complex distribution method, it increases the efficiency of installation work. The PC-made cover and heat-resistant material side plate are highly resistant to shock and heat, enabling you to use it safely.
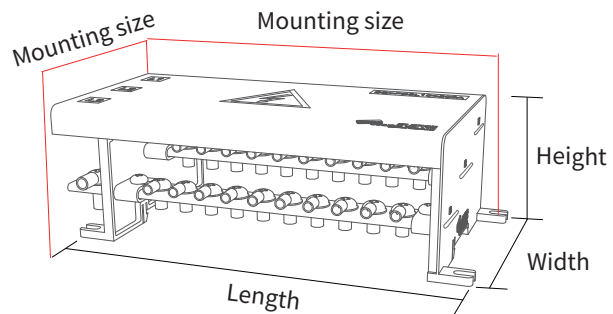
Model	Size(mm)	Busbar size	Power fix bolt size	Bolt size	Mounting & Hole size	Weight
SG-PD2L06-50A	119 X 49 X 45	2 X 10	M5	M4	108 X 39 / Ø4.2	90 g
SG-PD3L06-50A	119 X 70 X 56	2 X 10	M5	M4	108 X 60 / Ø4.2	133 g
SG-PD2L06-100A	132 X 59 X 48	3 X 15	M6	M5	117 X 49 / Ø4.2	173 g
SG-PD2L10-100A	180 X 59 X 48	3 X 15	M6	M5	166 X 49 / Ø4.2	240g
SG-PD3L06-100A	132 X 85 X 60	3 X 15	M6	M5	117 X 75 / Ø4.2	265 g
SG-PD3L06-200A	156 X 103 X 67	4 X 20	M8	M6	130 X 93 / Ø4.2	480 g
SG-PD3L10-100A	180 X 85 X 60	3 X 15	M6	M5	166 X 75 / Ø4.2	357 g
SG-PD3L10-200A	211 X 103 X 67	4 X 20	M8	M6	186 X 93 / Ø4.2	650 g
SG-PD4L06-100A	132 X 111 X 72	3 X 15	M6	M5	117 X 101/ Ø4.2	355g
SG-PD4L10-100A	180 X 111 X 72	3 X 15	M6	M5	166 X 101/ Ø4.2	480 g
SG-PD4L10-200A	211 X 135 X 81	4 X 20	M8	M6	186 X 123 / Ø4.2	878 g

Power Distribution Terminal Block
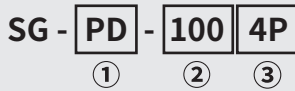
Nomenclature

SG - | PD | - | 100 | 4P |
① ② ③

① **Product name**
Power Distribution Terminal Block

② **Rated current**
100A / 200A / 400A

③ **Number of terminals**
4P / 6P / 8P

SG-PD-400   SG-PD-200   SG-PD-100

Feature

It can be used efficiently even in narrow spaces, with a more compact size than the conventional model. The hinged protective cover prevents accidents such as electric shocks.

As screw connection and channel mounting can be done on the main body, installation and maintenance are convenient.

Electrical Specifications

Allowable current : 100A / 200A / 400A
Pitch : 20mm / 30mm / 40mm
Rated input voltage : 600V

Product Specifications

Tolerance: ± 1mm
Operating temperature: -20℃ ~ +110℃
Material: Heat-resistant material / Polycarbonate (Cover)
99.9% CU + Tin plated busbar

Safety Specifications

RoHS

Height

Mounting size

Width   Mounting size   Length

Description

The power distribution terminal block type is economical with its small size, and it can be used conveniently by improving work efficiency.

It can be mounted directly on the product body in a narrow space, or used by mounting on a standard 35mm DIN rail, and each consists of 1 input terminal and 4~8 output terminals. As it uses heat-resistant material, it is resistant to impact and heat, and the busbar is plated with tin with 99.9% copper, giving it a higher conductivity than brass. Can be used safely and conveniently for a wide range of applications.

Model	Rated capcity	Pitch	Bolt size		Busbar size	Size(mm)	Mounting & Hole size	Weight
			IN	OUT				
SG-PD-100-4P	600V 100A	20mm	M6	M4 x 2 M5 x 2	3T X 20 mm	24 X 95 X 58	85.5 X 12.4 mm Ø4.5	104g
SG-PD-100-6P				M4 x 6				
SG-PD-200-4P	600V 200A	30 mm	M8	M5 x 2 M6 x 2	3T X 30 mm	34 X 95 X 58	85.5 X 17.4 mm Ø4.5	165g
SG-PD-200-6P				M5 x 6				
SG-PD-200-8P				M4 x 6 M5 x 2				163g
SG-PD-400-6P	600V 400A	40 mm	M10	M8 x 6	4T X 40 mm	45 X 148 X 80	137 X 22 mm Ø5.5	419g
SG-PD-400-8P				M8 x 2 M6 x 6				403g

NFB Power Distribution Terminal Block

Nomenclature

SG - **NPD** - **100** **4P**
① ② ③

① **Product name**
NFB Power Distribution Terminal Block

② **Rated current**
100A / 200A / 400A

③ **Number of terminals**
4P / 6P / 8P

SG-NPD-100

SG-NPD-200

SG-NPD-400

Feature

It is easy to connect directly to the main breaker without the need for a separate terminal, and is a space saving product with the same width as the breaker frame.

Product Specifications

Tolerance : ± 1mm
Operating temperature : -20°C ~ +110°C
Material : Heat-resistant material /
　　　　　 Polycarbonate (Cover)
　　　　　 99.9% CU + Tin plated busbar

Electrical Specifications

Allowable current : 100A (Available with 50A breaker)
　　　　　　　　　　 200A / 400A
Pitch : 20mm / 30mm / 40mm
Rated input voltage : 600V

Safety Specifications

RoHS

Height

Mounting size

Length

Mounting size

Mounting size

Width
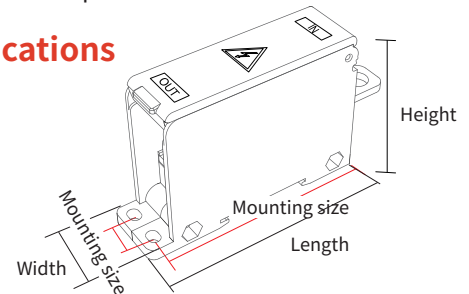
Description

The NFB terminal block type power distributor is an upgraded terminal block type power distributor.
As there is a link that can be directly connected to the main breaker, it can be connected without the need for a separate terminal. The width of the product is the same as that of the breaker frame, which helps to save space.
The heat-resistant material side plate resists shock and heat, and the PC material protection cover prevents electric shock, enabling safe use. As the busbar is coated with 99.9% copper with tin, it has a higher conductivity than brass and can be used efficiently.

Model	Rated capcity	Pitch	Bolt size		Busbar size	Size(mm)	Mounting & Hole size	Weight
			IN	OUT				
SG-NPD-100-4P	600V 100A	20mm	Hole Ø9	M4 x 2 M5 x 2	3T X 20 mm	24 X 105 X 58	12.4 mm /Ø4.5	111g
SG-NPD-100-6P				M4 x 6				
SG-NPD-200-4P	600V 200A	30 mm	Hole Ø10	M5 x 2 M6 x 2	3T X 30 mm	34 X 113 X 58	17.4 mm /Ø4.5	161g
SG-NPD-200-6P				M5 x 6				
SG-NPD-200-8P				M4 x 6 M5 x 2				
SG-NPD-400-6P	600V 400A	40 mm	Hole Ø12.5	M8 x 6	4T X 40 mm	45 X 185 X 80	22 mm/Ø5.5	397g
SG-NPD-400-8P				M8 x 2 M6 x 6				382g

Wire Connector

Nomenclature

SG - WC - 01
① ②

① Product name
Wire Connector

② Number of pin
1Pin

SG-WC-01

Side board
SG-WC-1S

After pressing
insert stripped
wire
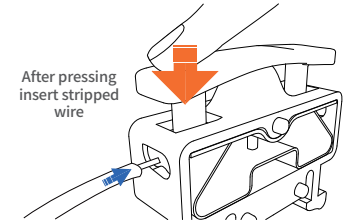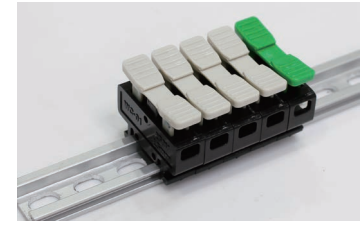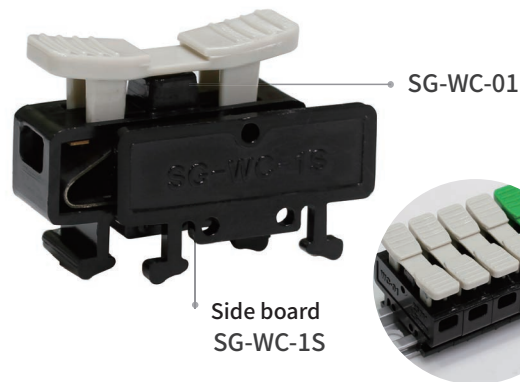
Feature

Rail type connector product that is fixed to the
channel and 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 plate can be ordered separately.

Electrical Specifications

Service wire size : 1.5㎟ (20 ~ 16AWG)
Rated input voltage : 250Volts

Product Specifications

Color: Ivory, Green (Push), Black (Main Body)
Operating temperature: -20℃ ~ +70℃
Material: Polycarbonate (main body) / Incombustible ABS (PUSH)

28
29
23.67
8.5
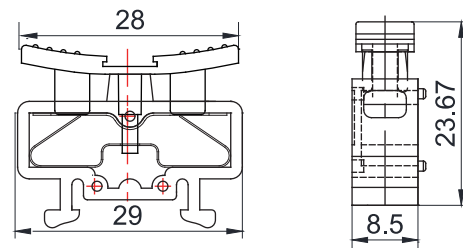
Description

Can be used after connecting by inserting stripped wire that meets the standard while pressing the push part.
Used exclusively for DIN rail mounting, by inserting a name strip into the groove of the product push.

Plastic Connector Box

Nomenclature

SG - WC - 06
① ②

① Product name
Plastic Connector Box

② Number of connector
6, 10, 15, 20

SG-WC-15P   SG-WC-20P

SG-WC-6P

SG-WC-10P

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

Grounding Bar | Earth Ground

Nomenclature

SG - EB ☐ - 3P
① ② ③
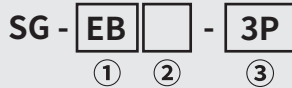
① **Product name**
Earth Grounding Bar

② **Type**
-: Single file
2: Double file bending type
3: Double file straight type

③ **The number of terminals**
3P ~ 30P
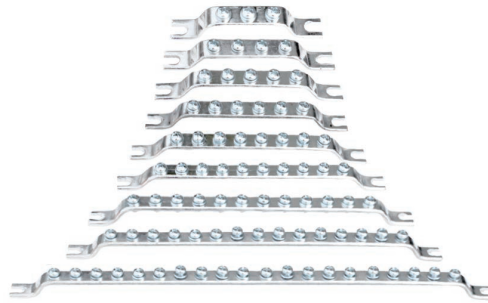
Plated

Description

Grounding bars are non-plated products made of 99.9% copper, and can be divided into various types: single file, double file, 3P to 30P. They are manufactured to support the safe grounding of electric facilities.

SG - EB

11mm   C
5.5mm   1.5mm
M5
B
A

SG - EB2

A
C   M5
5.5mm
M4
B
11mm
1.5mm

SG - EB3

Ø5.5
A
C   M5
M4
B

Product Specifications

Material : Copper 99.9%, Tin-plated
Bolt size : M5 (Single-file) / M4, M5 (Double-file)

Product certification : **RoHS**
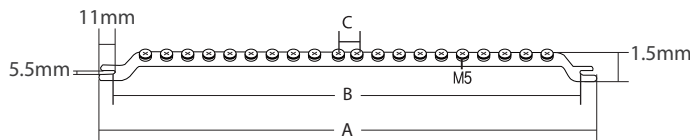
Model	Size(mm)		C	Size
	A	B		
SG-EB-3P	92	75		
SG-EB-4P	107	90		
SG-EB-5P	122	105		
SG-EB-6P	137	120		
SG-EB-7P	152	135	15	15mm X 3T
SG-EB-8P	167	150		
SG-EB-10P	197	180		
SG-EB-12P	227	210		
SG-EB-15P	272	255		
SG-EB-20P	347	330		
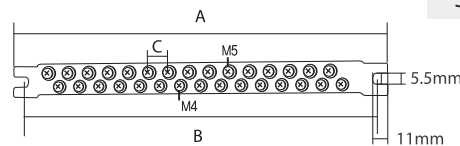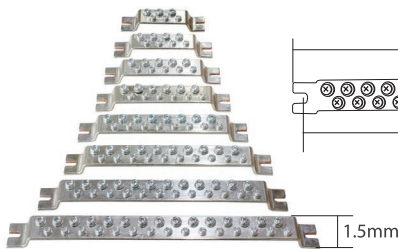
Model	Size(mm)		C	Size
	A	B		
SG-EB2(3)-6P	98.9	81.5		
SG-EB2(3)-8P	113.9	96.5		
SG-EB2(3)-10P	128.9	111.5		
SG-EB2(3)-12P	143.9	126.5		25mm X 3T
SG-EB2(3)-16P	173.9	156.5	15	
SG-EB2(3)-20P	203.9	186.5		
SG-EB2(3)-24P	233.9	216.5		
SG-EB2(3)-30P	278.9	261.5		
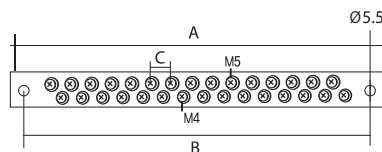
Terminal Block

RoHS

Fixed Bracket

RoHS

W　L
Φ4.5
Atachment
H
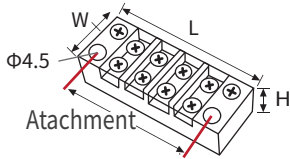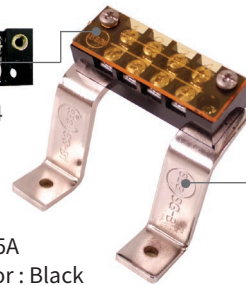
SG-TB-1504

SG-B4045　SG-B4090　SG-B6045　SG-B6090

Product Specifications

Rated voltage : 250V / Allowable current : 15A
Operating temperature : -20℃ ~ 70℃ / Color : Black

Model	Size (mm) L x W x H	Mounting interval
SG-TB-1502	38 x 20 x 14	28mm
SG-TB-1503	48 x 20 x 14	38mm
SG-TB-1504	57 x 20 x 14	48mm
SG-TB-1506	77 x 20 x 14	67mm
SG-TB-1510	117 x 20 x 14	107mm

Size (mm)

SG-B4045	SG-B4090	SG-B6045	SG-B6090

※ Tolerance ± 1~2mm

DC Terminal Block

RoHS

Product Specifications

Color : Gray
Operating temperature :
　-20℃ ~ 70℃

Model	Size (mm) L x W x H
SG-DC-4P	49 x 22 x 26
SG-DC-6P	66 x 22 x 26
SG-DC-10P	99 x 22 x 26
SG-DC-15P	148 x 22 x 26
SG-DC-20P	190 x 22 x 31
SG-DC-25P	232 x 22 x 31

※ Tolerance ± 1~2mm

HC Terminal Block

(Heat-resistant terminal block)

RoHS

Product Specifications

Color : Ivory
Operating temperature :
　-20℃ ~ 400℃

Model	Size (mm) L x W x H
SG-HC-4P	49 x 22 x 26
SG-HC-6P	66 x 22 x 26
SG-HC-10P	99 x 22 x 26
SG-HC-15P	148 x 22 x 26
SG-HC-20P	190 x 22 x 31
SG-HC-25P	232 x 22 x 31

※ 250V, 10Amp

Short Bar

30mm
SG-SB-2P
8mm
SG-SBR-10P
9mm
SG-SBB-10P
Nylon
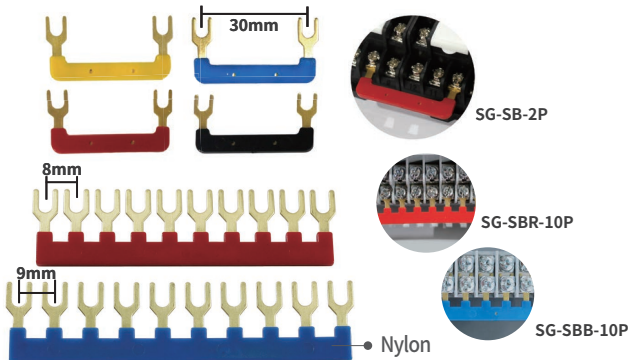
Model	Color		Product Details	
SG-SB-2P	Yellow/Blue/Red/Black		**For** MY-4 relay socket	
SG-SBR-10P	Red	For 10A	**TB -**	4P, 4PT, 6P, 6PT, 10PT 15PT, 20PT, 30P, 40P, 50P
			AL -	4P, 6P, 10P, 12P, 15P, 20P 20PT, 30P, 40P, 50P-S ,50P-L
SG-SBB-10P	Blue	For 15A	**TB -**	4P15, 6P15, 10P15, 15P15, 20P15

DIN - Rail

Aluminum　　5mm　　12.5mm
8mm
Nylon
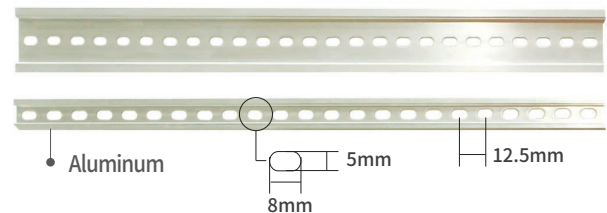
※ DR-15/35-hole sizes and intervals are identical

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

※ Tolerance ± 1~2mm

Safety Knife

martor VPA GS

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

Made in Germany

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	Ømm	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. 4 - 28 G (Straight blade + protective cap)	4 - 28		104	
Cable Stripper No. 28 - 35	28 - 35		87	
Cable Stripper No. 35 - 50	35 - 50		90	
Cable Stripper H.D. No. 1000			93	
Cable Stripper S 4 - 28	4 - 28		72	
Cable Stripper S 4 - 28 Multi	4 - 28	20 - 10 (0.5 - 16 mm^2)	61	
Cable Stripper S 4 - 28 Voltage	4 - 28		69	

Dismantling Stripper

Dismantling Tools	Ømm	AWG	Weight(g)	
Cable Stripper No. 4 - 16	4 - 16		84	
Round Cable Stripper No. 13	8 - 13		44	
Combi-Coax No. 3	4.8 - 7.5		55	

Made in Germany

Multi-purpose Strippers

Multi-purpose Strippers	Ømm	AWG	Weight(g)	
Stripper No. 30	4 - 10		60	
Stripper No. 100	4 - 13	20 - 6 (0.5 - 16mm ^{2})	74	
Mini-Duo No. 150		20 - 10 (0.5 - 16mm ^{2})	112	
Duo-Stripper No. 200	4 - 28	20 - 10 (0.5 - 16mm ^{2})	123	
Duo-Crimp No. 300		20 - 10 (0.5 - 16mm ^{2})	116	
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. 6 1000 V IEC: 60900		24 - 10 (0.2 - 6mm ^{2})	105	
Wire Stripper No. 7 Magic	flexible	20 - 6 (0.5 - 16mm ^{2})	217	
	solid	20 - 8 (0.5 - 10mm ^{2})		

Industrial Plug&Socket

ME METECEE

ÖVE · TSE · KEMA EUR

16A

Voltage composition	Plug	Socket	Angled Socket	Straight Socket	Plug	Socket	Angled Socket	Straight Socket
		IP44				IP67		
220V 2P+E	404001	404010V		404012				
220V 2P+E	406101V	406401V	406501V	406502V	406102V	406402V	406503V	406504V
380V 3P+E	406103V	406403V	406505V	406506V	406104V	406404V	406507V	406508V
380V 3P+N+E	406105V	406405V	406509V	406510V	406106V	406406V	406511V	406512V

Industrial Plug&Socket

ME METECEE
ÖVE · TSE · KEMA KEUR

32A

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

63A

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

125A

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

Square Multipolar Connector

ME / METECON®

TSE

Composition	INSERTS		HOODS & HOUSINGS					
	FEMALE	MALE						
4 X 10A	29008	29009						
5 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						
10 X 16A	29020	29021	29040S	29041	29049S	29145	29150S	
16 X 16A	29022	29023	29042S	29043	29050S	290155	29160S	
24 X 16A	29024	29025	29044S	29045	29051S	29165		

Battery Modular Connectors

KST. Made in Taiwan

10~30 Amp Series

75 Amp Series

AMP Series	Housings	Contacts	Current Rating
10 ~ 30 Amp Series	BMC 1S	BMC 1AG	15
		BMC 2AG	30
75 Amp Series	BMC 1M	BMC 5AG	50
		BMC 8AG	60
		BMC 14AG	75
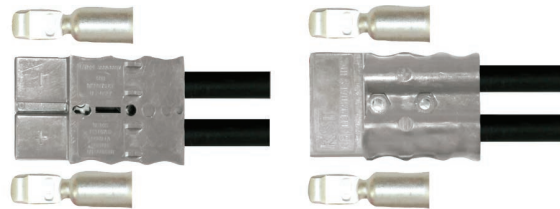
50~350 Amp Series [2P]

※ 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

I LOOKS

I LOOKS is producing and selling a range of models from small Warning Light to Signal Tower Light with thorough quality management, and its Electronic Horn furnished with various timbres and clear tunes boast one of the best volumes and sound quality in Korea.

Signal Tower Light

Warning Light

Electronic Horn

Heavy Dust Industry Use
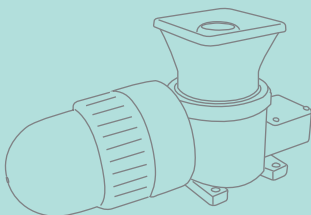
Contect us

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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.
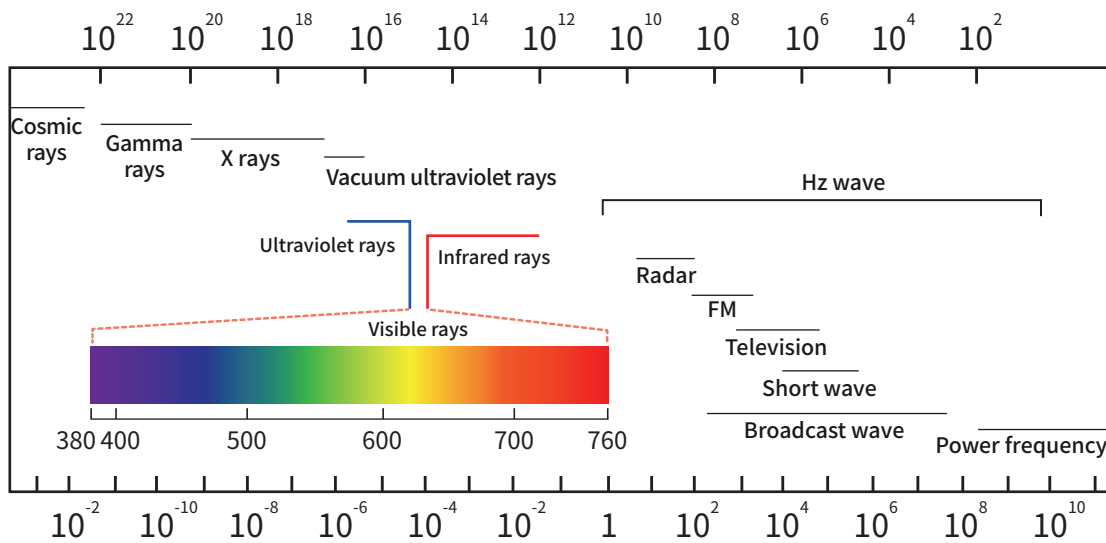
Spectrum of electromagnetic radiation

Term Definition

Light velocity

Light velocity means light that is visible to the human eyes. Its wavelength is about 380~760㎚, 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 Sourse 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 (25㎽), low heat generation and a semi-permanent service life (longer then 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
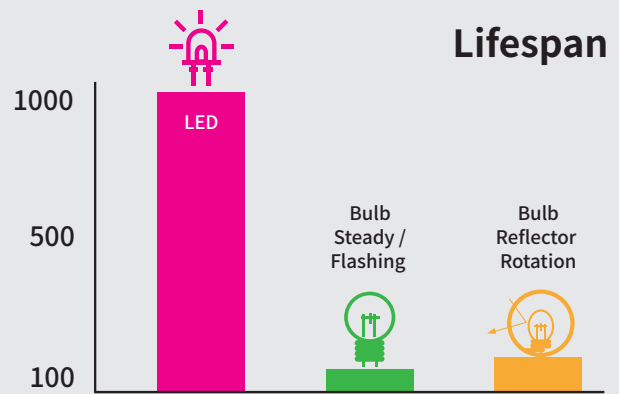
Economic Feasibility
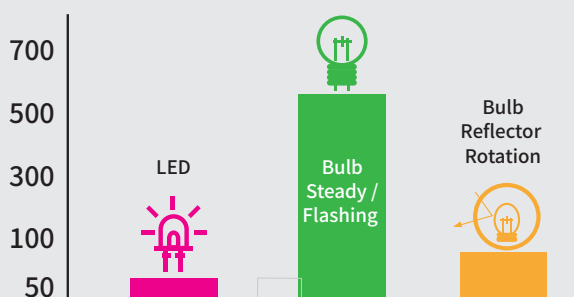
Brightness
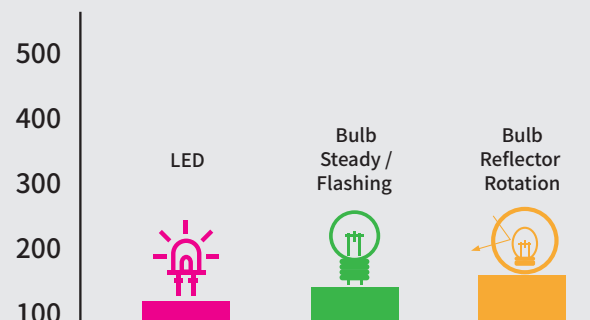
Nature of Sound

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 here is 0.0002 μbar.
- Sound Pressure L (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.

Electronic Horn

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.

Tone color

Icon Description

Light Source		Operation		Sound		Option	
Incandescent bulb		Steady type		Maximum volume (100 dB)		High luminance	
LED Lamp		Flashing type		Buzzer		Magnet mounted	
		Revolving type		Siren		Protective net	
				Melody			
				Voice			

Main Product（Signal Tower Light & Warning Light）Specifications

Category	Product	Model	Light Source	Operation	Sound	Option
Tower Light	LED Signal Tower Light	AUT - L(LF) / AUTN -L(LF)	LED	Flashing, Revolving	85dB, Buzzer, Siren, Melody	Magnet mounted
	Ethernet Signal Tower Light	AUT - EN	LED	Flashing	85dB, Buzzer, Siren	Magnet mounted
	Device Net Signal Tower Light	AUT - DN	LED	Flashing	90dB, Buzzer	
	USB Signal Tower Light	AUT - U	LED	Flashing, Revolving	90dB, Buzzer	Magnet mounted
	Connector type Signal Tower Light	AUT - CO	LED	Flashing	90dB, Buzzer	
	LED 40 Signal Tower Light	AUT - 40(L/LF)	LED	Flashing, Revolving	90dB, Buzzer	
Warning Light	Bulb Steady / Flashing Warning Light	AUW - 80B / BF	Incandescent bulb	Steady, Flashing		
		AUW - 100B / BF	Incandescent bulb	Steady, Flashing		
	Bulb Revolving Warning Light	AUW - R100	Incandescent bulb	Revolving	80dB, Buzzer, Siren, Melody	Magnet mounted
		AUW - R125	Incandescent bulb	Revolving	90dB, Buzzer, Siren, Melody, Voice	Magnet mounted
		AUW - R125L	Incandescent bulb	Revolving	100dB, Buzzer, Siren, Melody, Voice	
		AUW - R150S	Incandescent bulb	Revolving		High luminance
		AUW - R180S	Incandescent bulb	Revolving		
	LED Warning Light	AUW - L60B / AUW - L60BF	LED	Steady, Flashing		
		AUW - L80	LED	Steady, Flashing, Revolving	80dB, Buzzer, Siren, Melody	
		AUW - L100	LED	Flashing, Revolving	80dB, Buzzer, Siren, Melody	Magnet mounted
		AUW - L125	LED	Flashing, Steady, Revolving	90dB, Buzzer, Siren, Melody, Voice	High luminance, Magnet mounted
		AUW - L125L	LED	Flashing, Steady, Revolving	100dB, Buzzer, Siren, Melody, Voice	High luminance
		AUW - L150S	LED	Steady, Flashing, Revolving		High luminance
	Caution LED Light	AUW - CL60 / AUW - CL80	LED			
		AUW - CL100 / AUW - CL125	LED			Magnet mounted
		AUW - CL125L	LED			
		AUW - CL150S	LED			

LED Signal Tower Light

		LED Signal Tower Light			
Type		AUT−L	AUT−LF	AUTN−L	AUTN−LF
Bulb	Steady	•		•	
	Flashing		•		•
Service voltage		AC110V ∼ AC220V DC12V / DC24V		AC110V ∼ AC220V DC12V ∼ DC24V	
Material		Lens − GPPS Body − ABS / Reflector − PC		Lens − Optical expansion PC Body − ABS / Reflector − PC	
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)	
	Depth	−		−	
Buzzer volume		80dB ∼ 85dB		80dB ∼ 85dB	
Color change by layer		Available		Available	
Mounting method		Horizontal (SH20, SH08, SH04) / Vertical (SV20, SV06) / Direct connection (G) / Adjustable Angle (AP20, AP06)			
Customization		Buzzer / Melody / Pole length selection / Horizontal type + Magnet attachment			
Page		p.43	p.43	p.44	p.44

Ethernet / Device Net / USB LED / Connector / LED 40 Signal Tower Light

		Ethernet	Device Net	USB	Connector	LED Ø40
Type		AUT−EN	AUT−DN	AUT−U	AUT−CO	AUT−40
Bulb	Steady		•	•	•	•
	Flashing	•		•		•
Service voltage		AC110V ∼ 220V / DC24V	DC24V	DC5V	DC12V ∼ 24V	DC12V ∼ 24V
Material		Lens − GPPS Body − ABS / Reflector − PC	Lens − GPPS Body − ABS / Reflector − PC	Lens − GPPS Body − ABS / Reflector − PC	Lens − GPPS Body − ABS / Reflector − PC	Lens / Body / Cover/ Cap − PC
Layers		1∼4 layers	1∼5 layers	1∼5 layers	1∼5 layers	3,5 layers
Dimensions (mm)	Outdia	Ø58	Ø58	Ø58	Ø58	Ø40
	Height	410 mm ∼ 534.5 mm*	210.5 mm ∼ 376.5 mm*	410 mm ∼ 576 mm*	305 mm ∼ 467 mm*	270 mm / 330 mm*
	Depth	−	−	−	−	−
Buzzer volume		80dB ∼ 85dB	83dB ∼ 90dB	83dB ∼ 90dB	90dB	90dB
Color change by layer		Available	Available	Available	Available	Unvailable
Mounting method		Horizontal (SH20,SH08,SH04) Vertical (SV20,SV06)/Direct (G) Adjustable Angle(AP20,AP06)	Exclusive bracket	Horizontal (SH20,SH08,SH04) Vertical (SV20,SV06)/Direct (G) Adjustable Angle(AP20,AP06)	Vertical (SV06)	Direct (G)
Timbre		1 buzzer, 3 siren sounds	Buzzer	Buzzer	Buzzer	Buzzer
Page		p.46	p.47	p.48	p.49	p.49

* SH20 Standard type

AUT - L / LF Series

Ø58 LED Steady / Flashing Signal Tower Light

- ☉ 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
- ☉ Color combinations other than standard
- ☉ Easy to maintain with globe and integrated interior structure
- ☉ Apart from the standard buzzer, 8 different melodies can be installed.
- ☉ Volume can be adjusted from the outside (Maximum volume 85dB)
- ☉ Mounting pole (length, type) are selectable (default SH20)
- ☉ Magnet mounted type is available for horizontal pole (SH).
- ☉ Material : **Lens** [GPPS], **Body** [ABS], **Reflector** [PC], **Pole** [Aluminum]
- ☉ Operating Temperature : -25°C ~ +50°C (freezing free)

AUT- L / AUT- LF

External volume adjustment

Beep output

Warning sound	Number of sounds	CH	Timbre
AB buzzer	1 sound		Monotone
AM Melody	4 sounds	1	Fur Elise
		2	Home Sweet Home
		3	The Magic Flute
		4	Piano Sonatas
AA Alarm	4 sounds	1	Beep ~ beep ~ beep
		2	Ding Dong
		3	Beep-ee
		4	Beep beep beep beep

AUT-L / LF   Ø58 LED Steady/Flashing Signal Tower Light

Type	L	Voltage	Current		Weight	Color
			LED	Buzzer		
AUT-L Steady type	1	AC110~220	12.5mA	15mA (AC) 210mA (DC12V) 170mA (DC24V)	348g (AC)	● Red(R)
		DC12V DC24V	40mA 50mA		312g (DC)	
	2	AC110~220	25mA		385g (AC)	● Red(R) ● Green(G)
		DC12V DC24V	80mA 100mA		349g (DC)	
	3	AC110~220	37mA		422g (AC)	● Red(R) ● Yellow(Y) ● Green(G)
		DC12V DC24V	110mA 135mA		386g (DC)	
	4	AC110~220	49mA		459g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
		DC12V DC24V	140mA 170mA		423g (DC)	
	5	AC110~220	61mA		496g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)
		DC12V DC24V	170mA 205mA		460g (DC)	
AUT-LF Flashing type	1	AC110~220	13mA	15mA (AC) 210mA (DC12V) 170mA (DC24V)	388g (AC)	● Red(R)
		DC12V DC24V	65mA 65mA		332g (DC)	
	2	AC110~220	26mA		425g (AC)	● Red(R) ● Green(G)
		DC12V DC24V	130mA 130mA		369g (DC)	
	3	AC110~220	38.5mA		462g (AC)	● Red(R) ● Yellow(Y) ● Green(G)
		DC12V DC24V	180mA 185mA		406g (DC)	
	4	AC110~220	51mA		499g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
		DC12V DC24V	230mA 240mA		443g (DC)	
	5	AC110~220	63.5mA		536g (AC)	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)
		DC12V DC24V	280mA 295mA		480g (DC)	

AUT - L / LF Series

Ø58 LED Steady / Flashing Signal Tower Light

- ⊙ LED Steady / Flashing type Signal Tower Light
- ⊙ Excellent radiant effect achieved using special vacuum metallizing.
- ⊙ Operators can change color of each layer
- ⊙ Available in AC type (AC110-220V) and DC type (DC12 to 24V)
- ⊙ 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. See on p.43 table
- ⊙ Volume can be adjusted from the outside (Maximum volume 85dB)
- ⊙ Mounting pole (length, type) are selectable (default SH20)
- ⊙ Material : **Lens** [GPPS], **Body** [ABS], **Reflector** [PC], **Pole** [Aluminum]
- ⊙ Operating Temperature : -25℃ ~ +50℃ (freezing free)

AUTN-L / AUTN-LF

AUTN-L /LF Ø58 LED Steady/Flashing Signal Tower Light

Type	L	Voltage	Current		Weight	Color
			LED	Buzzer		
AUTN-L Steady type	1	AC110~220	14mA	15mA (AC) 170mA (DC)	348g(AC)	(1L)● Red(R)
		DC12~24	55mA		312g(DC)	
	2	AC110~220	28mA		385g(AC)	(1L)● Red(R) (2L)● GREEN(G)
		DC12~24	110mA		349g(DC)	
	3	AC110~220	41mA		422g(AC)	(1L)● Red(R) (2L)● YELLOW(Y) (3L)● GREEN(G)
		DC12~24	149mA		386g(DC)	
	4	AC110~220	54mA		459g(AC)	(1L)● Red(R) (2L)● YELLOW(Y) (3L)● GREEN(G) (4L)● BLUE (B)
		DC12~24	187mA		423g(DC)	
	5	AC110~220	67mA		496g(AC)	(1L)● Red(R) (2L)● YELLOW(Y) (3L)● GREEN(G) (4L)● BLUE (B) (5L)○ WHITE(W)
		DC12~24	226mA		460g(DC)	
AUTN-LF Flashing type	1	AC110~220	14mA	15mA (AC) 170mA (DC)	388g(AC)	(1L)● Red(R)
		DC12~24	72mA		332g(DC)	
	2	AC110~220	29mA		425g(AC)	(1L)● Red(R) (2L)● GREEN(G)
		DC12~24	143mA		369g(DC)	
	3	AC110~220	42mA		462g(AC)	(1L)● Red(R) (2L)● YELLOW(Y) (3L)● GREEN(G)
		DC12~24	204mA		406g(DC)	
	4	AC110~220	56mA		499g(AC)	(1L)● Red(R) (2L)● YELLOW(Y) (3L)● GREEN(G) (4L)● BLUE (B)
		DC12~24	264mA		443g(DC)	
	5	AC110~220	70mA		536g(AC)	(1L)● Red(R) (2L)● YELLOW(Y) (3L)● GREEN(G) (4L)● BLUE (B) (5L)○ WHITE(W)
		DC12~24	325mA		480g(DC)	

AUTN-L / AUTN-LF

Using PC Light Diffusion Lens

Product Features

- ⊙ Using PC light diffusion lenses, light is subtle and luxurious.
- ⊙ Available in AC and DC types.
- ⊙ User Order Specifications Same as AUT-L / LF Series.

AUT - L / LF Series

Ø58 LED Steady / Flashing Signal Tower Light

Nomenclature

①	-	②	-	③	-	④	-	⑤	-	⑥
Series		**Type**		**Layers**		**Timbre**		**Voltage**		**Mounting accessories**

Series	Type	Layers	Timbre	Voltage	Mounting accessories
AUT **AUTN**	**L : Steady type** **LF : Flashing type**	**1** : 1 layer **2** : 2 layer **3** : 3 layer **4** : 4 layer **5** : 5 layer	**No mark** : None **AB** : Buzzer **AM** : Melody **AA** : Alarm	**110/220** : AC110V ~ 220V **12** : DC12V **24** : DC24V	**SH20** : Horizontal 200mm **SH08** : Horizontal 80mm **SH04** : Horizontal 40mm **SV20** : Vertical 200mm **SV06** : Vertical 60mm **G** : Direct connection **AP20** : Adjustable Angle 200mm **AP06** : Adjustable Angle 60mm

Technical Diagram & Wiring Instructions

Technical Diagram	Contact Type (AC/DC) Wiring Instructions	Power Type (AC/DC) Wiring Instructions

Mounting accessories

Direct connection **G**	Horizontal **SH**	Vertical **SV**	Adjustable Angle **AP**

AUT - EN Series

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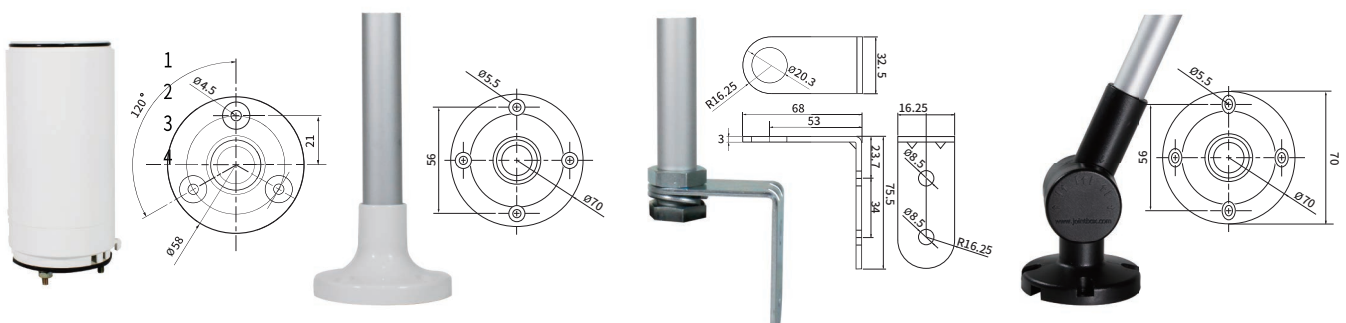
- ⊙ A Signal Tower controlled by connecting internet or LAN
- ⊙ Control with computer web browser or applications
- ⊙ Can be used for remote control
- ⊙ Separate utility provided to set IP address, subnet mask, and gateway
- ⊙ Maximum 4 layers of LED flashing type
- ⊙ 4 basic sounds (1 buzzer, 3 siren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

AUT- EN Series

Technical Diagram

17
Ø58
41.5
288
90
534.5
15
200
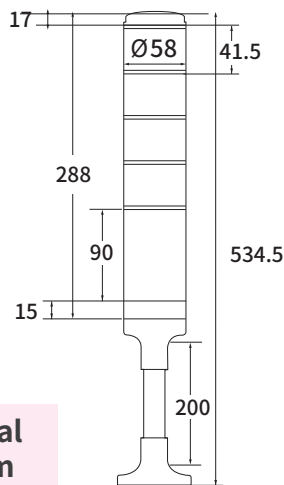
AUT-EN

Ø58 Ethernet Signal Tower Light

Type	Layers	Voltage	Weight	Timbre	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 Emergency Fire	● Red(R) ● Yellow(Y) ● Green(G)
		DC24V	488g		
	4	AC110~220V	616g		● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
		DC24V	525g		

How to Use & Connecting Diagram

Setup tool
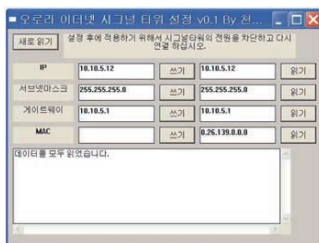
◎ It sets IPs, subnet masks, and gateways for signal towers.

Webpage screen for testing
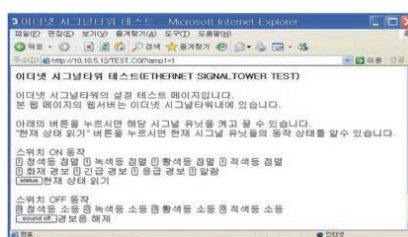
◎ A **Signal Tower** contains web server and web page, and the operation can be tested with web browser.

Connecting diagram

Ethernet Signal Tower

P C

LAN connecting line

HUB
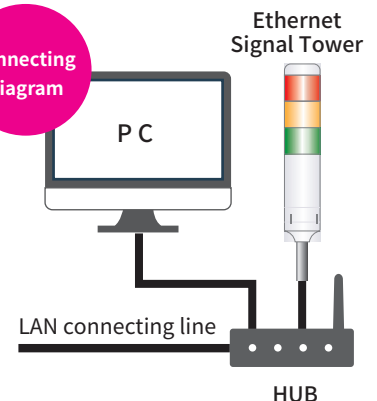
Nomenclature

AUT - EN	—	①	—	②	—	③
		Layers		Voltage		Mounting accessories

Ethernet Signal Tower Light	1 : 1 Layer	110/220 : AC110V ~ 220V	SH20 : Horizontal 200mm	SV06 : Vertical 60mm
	2 : 2 Layers		SH08 : Horizontal 80mm	G : Direct connection
	3 : 3 Layers	24 : DC24V	SH04 : Horizontal 40mm	AP20 : Adjustable Angle 200mm
	4 : 4 Layers		SV20 : Vertical 200mm	AP06 : Adjustable Angle 60mm

AUT - DN Series

- ⊙ 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.
- ⊙ Maximum volume : 90dB
- ⊙ Material : **Lens** [GPPS], **Body** [ABS], **Reflector** [PC], **Pole** [Aluminum]
- ⊙ Operating Temperature : -25℃ ~ +50℃ (freezing free)

AUT- DN

Ø58 Device Net Signal Tower Light

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) ● Yellow(Y)	● Green(G) ● Blue(B)
	5		376.5mm	516g	● Red(R) ● Yellow(Y) ● Green(G)	● Blue(B) ○ White(W)

AUT- DN Series

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 ① **Layers**

Device Net
Signal Tower Light

Layers

1 : 1 Layer
2 : 2 Layers
3 : 3 Layers
4 : 4 Layers
5 : 5 Layers

? What is Device Net?

- ⊙ Device net is a field bus for easy access among control devices such as PLC, PC, sensor, and actuator.
Saves wiring cost, reduces the potential for wiring errors, is easy to maintain, and can be used for real-time control. It is CAN-based and strong on noise.
As it allows mutual access among devices from different vendors, it enables more economical system establishment.
Can remove a connected device from the network without stopping the whole network.
An open style field that is used for a wide range of purposes.

Regular   Device Net

Built-in Device Net
Communication function
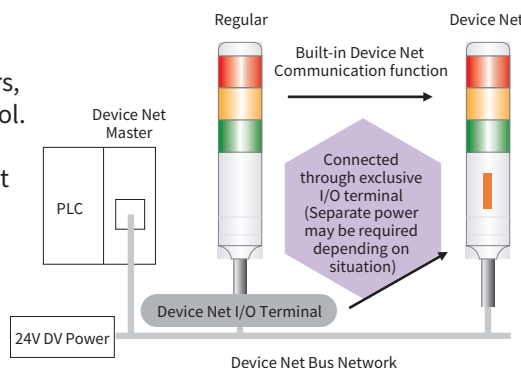
Advantages of Device Net Signal tower

Device Net
Master

PLC

Connected through exclusive I/O terminal (Separate power may be required depending on situation)

Direct connection to network with built-in device net communication function (power line and signal line are integrated into single cable)
● Saved space
● Reduced wiring
● Convenient installation & maintenance

Device Net I/O Terminal

24V DV Power

Device Net Bus Network
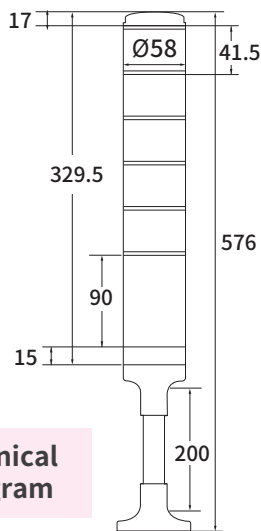
⊙ Signal Tower connected to USB port and controlled by programs on PC
⊙ All signals and power are supplied together through a single USB cable (voltage DC5V)
⊙ Can be used on a host that support USB 1.1 or higher
⊙ Can be utilized for a range of purposes as a regular PC accessory
⊙ Basic buzzer is embedded 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).
⊙ Maximum volume : 90dB
⊙ Material : **Lens** [GPPS], **Body** [ABS], **Reflector** [PC], **Pole** [Aluminum]
⊙ Operating Temperature : -25℃ ~ +50℃ (freezing free)

AUT- U Series

17 **Ø58** **41.5**
329.5
576
90
15
200

Technical Diagram

AUT- U

USB Signal Tower Light

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) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)

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

Warning event occurs

PC

Qc

Sound

USB Signal Tower

Using Procedure

Develop applications using the developer library provided in Visual C++

Connect to USB Signal Tower and test → Debugging and modification

Use
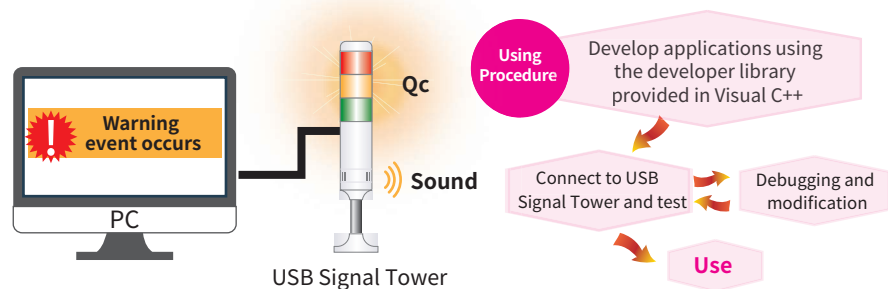
Nomenclature

AUT - U	-	①	-	②
		Layers		Mounting accessories

USB Signal Tower Light	1 : 1 Layer	SH20 : Horizontal 200mm	SV06 : Vertical 60mm
	2 : 2 Layers	SH08 : Horizontal 80mm	G : Direct connection
	3 : 3 Layers	SH04 : Horizontal 40mm	AP20 : Adjustable Angle 200mm
	4 : 4 Layers	SV20 : Vertical 200mm	AP06 : Adjustable Angle 60mm
	5 : 5 Layers		

AUT-CO Series

AUT- CO Series

- ⊙ 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 SV 06 pole Available exclusively.
- ⊙ Outdia : Ø58 / Maximum volume : 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** [Aluminum]
- ⊙ Operating Temperature : -25°C ~ +50°C (freezing free)

Mount using
the SV06 pole only

M12 4PIN Cable
(Male)

AUT- CO

Connector Type Signal Tower Light

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

AUT-40-L/LF Series

Ø40 Signal Tower Light

- ⊙ LED Steady / Flashing type Signal Tower Light
- ⊙ High brightness LEDs are placed in all four directions and transparent PC cover is used for excellent divergence
- ⊙ Layer colors cannot be changed
- ⊙ Outdia : Ø40 / Maximum volume : 90dB
- ⊙ Using bolt : 4mm, screw type / Material : **Lens** [PC] , **Body** [PC]
- ⊙ Operating Temperature : -25°C ~ +50°C (freezing free)

AUT- 40

TYPE	Layer	Voltage	Height	Weight	Color
AUT-40	3	DC24V	270mm	195g	(1L) ● Red(R) (2L) ● Yellow(Y) (3L) ● Green(G)
	5		330mm	230g	(1L) ● Red(R) (2L) ● Yellow(Y) (4L) ● Blue(B) (3L) ● Green(G) (5L) ○ White(W)

Bulb

Type	Steady / Flashing Warning Light		Revolving Warning Light				
Size	Small Size		Small Size	Standard Size			Large Size
Model	AUW-80B/BF	AUW-100B/BF	AUW-R100	AUW-R125	AUW-R125L	AUW-R150S	AUW-R180S
Voltage	AC110V / AC220V / DC12V / DC24V		AC110V / AC220V / DC12V / DC24V / DC48V				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
dimensions (mm) Height	143	132	132	161	208	210	219
Volume	No buzzer		80dB	90dB	100dB	No buzzer	No buzzer
Customization			Magnet / 3 Notes	Magnet / 3 Notes		Double reflector (high luminance)	
Page	p.51	p.51	p.53	p.53	p.54	p.54	p.54

LED

Type	Steady / Flashing Warning Light	Multiple Function LED Warning Light				
Size	Small Size	Small Size		Standard Size		
Model	AUW-L60B / BF	AUW-L80	AUW-L100	AUW-L125	AUW-L125L	AUW-L150S
Voltage	AC110V / AC220V DC12V / DC24V	AC110V / AC220V DC12V / DC24V	AC110V / AC220V / DC12V / DC24V / DC48V			AC110V / AC220V DC12V / DC24V
Material	Globe – GPPS / Body - ABS			Globe – PC / Body - ABS		Globe – GPPS Body – SUS 304
dimensions (mm) Diameter	Ø66	Ø83	Ø104	Ø125	Ø125	Ø155
dimensions (mm) Height	119	143	132	161	208	210
Volume	No buzzer	80dB	80dB	90dB	100dB	No buzzer
Customization			Magnet type / 3 Notes	High luminance Magnet type 3 Notes	High luminance	
Page	p.57	p.57	p.57	p.58	p.58	p.58

Caution LED

Type	Caution LED Warning Light					
Size	Small Size			Standard Size		
Model	AUW-CL60	AUW-CL80	AUW-CL100	AUW-CL125	AUW-CL125L	AUW-CL150S
Voltage	AC110V / AC220V DC12V / DC24V	AC110V / AC220V / DC12V / DC24V				
Material	Globe – GPPS Body – ABS	Globe – GPPS / Body - ABS		Globe – PC / Body - ABS		Globe – GPPS Body – SUS 304
dimensions (mm) Diameter	Ø66	Ø83	Ø104	Ø125	Ø125	Ø155
dimensions (mm) Height	119	143	132	161	208	210
Page	p.60	p.60	p.60	p.61	p.61	p.61

AUW - B / BF
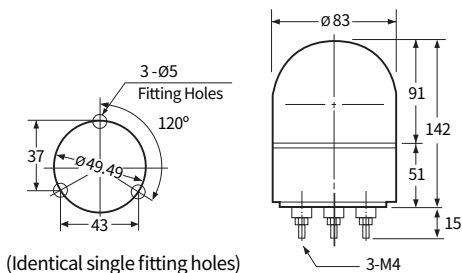
AUW-80B / BF
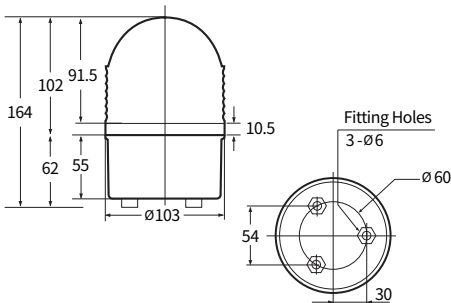
AUW-100B / BF

Nomenclature

AUW -	①	–	②	–	③
	Type		Operation		Voltage
Bulb Steady/ Flashing	80 : Ø80 100 : Ø100		B : Steady BF : Flashing		110 : AC110V 220 : AC220V 12 : DC12V 24 : DC24V

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 buzzer functions

⊙ Material: **Globe** [GPPS], **Body** [ABS]

⊙ Operating Temperature: -25°C ~ +50°C

AUW-80B / AUW-80BF

⊙ Ø 80mm, small bulb Steady / Flashing Warning Light

Model	Voltage	Current	Bulb	Weight	Color
AUW-80B Steady type	AC110V	0.05(A)	110V 10W	200g	🔴 Red(R) 🟡 Yellow(Y) 🟢 Green(G) 🔵 Blue(B)
	AC220V	0.03(A)	220V 10W	200g	
	DC12V	0.9(A)	12V 10W	200g	
	DC24V	0.5(A)	24V 10W	200g	
AUW-80BF Flashing type	AC110V	0.05(A)	110V 10W	209g	🔴 Red(R) 🟡 Yellow(Y) 🟢 Green(G) 🔵 Blue(B)
	AC220V	0.03(A)	220V 10W	209g	
	DC12V	0.9(A)	12V 10W	209g	
	DC24V	0.5(A)	24V 10W	209g	

AUW-100B / AUW-100BF

⊙ Ø 100mm, small bulb Steady / Flashing Warning Light

Model	Voltage	Current	Bulb	Weight	Color
AUW-100B Steady type	AC110V	0.05(A)	110V 10W	327g	🔴 Red(R) 🟡 Yellow(Y) 🟢 Green(G) 🔵 Blue(B)
	AC220V	0.03(A)	220V 10W	327g	
	DC12V	0.9(A)	12V 10W	327g	
	DC24V	0.5(A)	24V 10W	327g	
AUW-100BF Flashing type	AC110V	0.05(A)	110V 10W	336g	🔴 Red(R) 🟡 Yellow(Y) 🟢 Green(G) 🔵 Blue(B)
	AC220V	0.03(A)	220V 10W	336g	
	DC12V	0.9(A)	12V 10W	336g	
	DC24V	0.5(A)	24V 10W	336g	

Technical Diagram   Unit: mm

3 -Ø5 Fitting Holes
120°
37
Ø49.49
43
(Identical single fitting holes)

ø83
91
142
51
15
3-M4

※ Wire type: 1.25 control wire

AUW-80B / BF

164
102 91.5
62 55
10.5
Fitting Holes
3 -Ø6
Ø60
Ø103
54
30

AUW-100B / BF

AUW-R Series

Nomenclature

AUW - R

	①	–	②	③	–	④
	Type		Buzzer	High Luminance		Voltage

| Bulb Revolving Warning Light | **100** : Ø100
125 : Ø125
125L : Ø125 long body
150S : Ø150 SUS body
180S : Ø180 SUS body | **No mark** : None
AB : Buzzer
AM : Melody sound
AS : Siren | **No indication :**
Standard

H : High luminance | **110** : AC110V
220 : AC220V
12 : DC12V
24 : DC24V
48 : DC48V |

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
☉ Embedded buzzer is 1 sound by default but up to 3 sounds can be ordered. 3 sounds are available by default for **AUW-R125L** model
☉ 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°C ~ +50°C
☉ Material : **Globe** [GPPS], **Body** [ABS] / [SUS 304] (For AUW-R150S, 180S models)

Embedded buzzer specifications

Buzzer	Output	Timbre	
Buzzer AB	Max. Power 5W	Basic	Beep~~~Beep
		Additional option	Beep ~ Beep ~ Beep Dingdong Dingdong
Melody AM		Basic	Fur Elise
	Max. Power 5W	Additional option	Home Sweet Home London Bridge is Falling Down
Siren AS		Basic	Urgent
		Additional option	Emergency Fire

Features by Models

Model	Diameter	Body Type	Reflector	High luminance	Features
AUW - R100	Ø100	ABS	Single	None	Magnet , Cigarette lighter plug (for DC12V only) option
AUW - R125	Ø125	ABS	Single	None	Magnet , Cigarette lighter plug (for DC12V only) option Voice signal adding function is available
AUW - R125L	Ø125	ABS Long body	Single	None	Basic 3 sounds of sound embedded type, Voice signal adding function is available
AUW - R150S	Ø150	SUS	Single / Double	Yes	–
AUW - R180S	Ø180	SUS	Double	Yes	–

AUW-R Series

Bulb Revolving Warning Light

AUW-R100

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]

Model	Voltage	Current	Bulb	Weight	Color
AUW-R100	AC110V	0.17(A)	12V 10W	514g	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
	AC220V	0.09(A)	12V 10W	514g	
	DC12V	0.8 (A)	12V 10W	294g	
	DC24V	0.4(A)	24V 10W	294g	
	DC48V	0.2(A)	48V 10W	339g	

Technical Diagram
Unit: mm

Ø91.5
Ø101.5
65
132
49
15
Ø104
3-M5

3 - Ø6 Fitting Holes
53
120°
Ø70.5
61
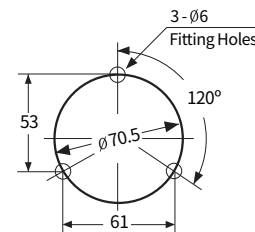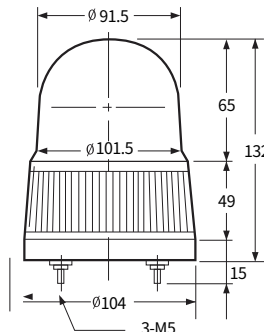
※ Wire type: 1.25 control wire

AUW-R125MC

Magnet type &
Cigarette lighter plug Option
(for DC12V only)

AUW-R125

Bulb Revolving Warning Light

⊙ Ø125mm, standard Bulb Revolving Warning Light
⊙ For the embedded buzzer, a bracket is attached at the bottom
⊙ Magnet option & Cigarette lighter plug (for DC12V only) are available
⊙ Voice sound (add voice signal function) can be ordered.
⊙ Material: **Globe** [GPPS], **Body** [ABS]

Model	Voltage	Current	Bulb	Weight	Color
AUW-R125	AC110V	0.18(A)	12V 15W	980g	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)
	AC220V	0.09(A)	12V 15W	980g	
	DC12V	1.4(A)	12V 15W	405g	
	DC24V	0.7(A)	24V 15W	405g	
	DC48V	0.38(A)	48V 15W	450g	

AUW-R125

Technical Diagram
Unit: mm

Ø57
2Hole - Ø 7
Fitting Holes

Ø104
90
161
71
15
57
2-M6
Ø 125

160

AUW-R Series

AUW-R125L — Bulb Revolving Warning Light

⊙ Ø125mm, standard Bulb Revolving Warning Light long body type
⊙ Voice sound (add voice signal function) can be ordered
⊙ Material : **Globe** [GPPS], **Body** [ABS]

Model	Voltage	Current	Bulb	Weight	Color
AUW-R125L	AC110V	0.18(A)	12V 15W	1124g	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B) ○ White(W)
	AC220V	0.09(A)	12V 15W	1124g	
	DC12V	1.4(A)	12V 15W	547g	
	DC24V	0.7(A)	24V 15W	547g	
	DC48V	0.38(A)	48V 15W	592g	

Technical Diagram

Ø104
134
208
74
15
Ø125
2-M6
Ø57
2Hole - Ø 7
Fitting Holes
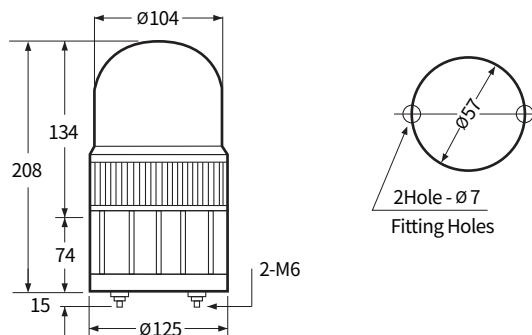
AUW-R150S

AUW-R150S — Bulb Revolving Warning Light

⊙ Ø150mm, standard Bulb Revolving Warning Light
⊙ Using stainless (SUS304) body, it is strong on impact and excellent corrosion resistance
⊙ No buzzer functions
⊙ Two types of reflectors are available: Single and double (high luminance)
⊙ Material : **Globe** [GPPS], **Body** [SUS 304]

Single reflector (Standard)

Model	Voltage	Current	Bulb	Weight	Color
AUW-R150S	AC110V	0.18(A)	12V 15W	1444g	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
	AC220V	0.09(A)	12V 15W	1444g	
	DC12V	1.4(A)	12V 15W	882g	
	DC24V	0.7(A)	24V 15W	882g	
	DC48V	0.38(A)	48V 15W	927g	

Double reflector (high luminance)

Model	Voltage	Current	Bulb	Weight	Color
AUW-R150SH	AC110V	0.3(A)	12V 15W	1470g	● Red(R) ● Yellow(Y) ● Green(G) ● Blue(B)
	AC220V	0.18(A)	12V 15W	1470g	
	DC12V	3(A)	12V 15W	908g	
	DC24V	1.5(A)	24V 15W	908g	

AUW-R Series

Technical Diagram

Unit: mm

Ø127

133

210

77

Ø155

3 - Ø7
Fitting Holes

120°

84.8

ø11.3

99

3-M6 dust-proof rubber

AUW-R150SH
(High Luminance)
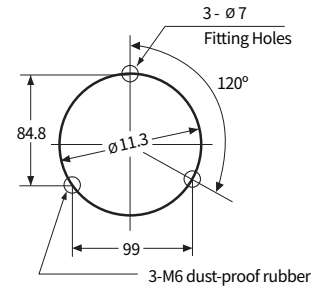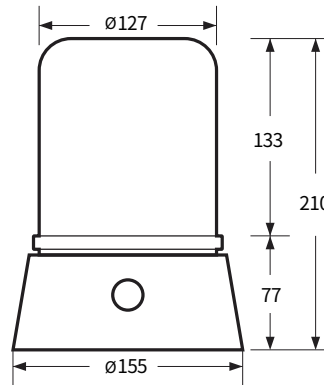
AUW-R180S

Bulb Revolving Warning Light

⊙ 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	0.3(A)	12V 35W	1832g	● Red(R)
	AC220V	0.18(A)	12V 35W	1832g	● Yellow(Y)
	DC12V	3(A)	12V 35W	1266g	● Green(G)
	DC24V	1.5(A)	24V 35W	1266g	● Blue(B)

Technical Diagram

Unit: mm

Ø163

129

219

90

N P

Ø180

3 - Ø7
Fitting Holes

120°

106

ø141

123

3-M6 dust-proof rubber

AUW-R180S
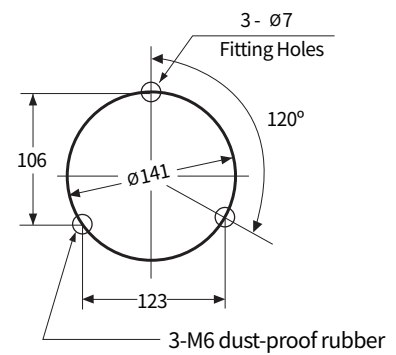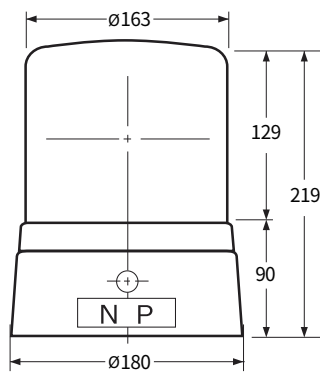
MEMO

Nomenclature

AUW - L	①	–	②	–	③	–	④
	Type		Buzzer		High Luminance		Voltage

| LED Warning Light | **60** : Ø60
80 : Ø80
100 : Ø100
125 : Ø125
125L : Ø125 long body
150S : Ø150 SUS body | **No mark** : None
AB : Buzzer
AM : Melody sound
AS : Siren | **No indication** :
Standard Type

H : High Luminance | **110** : AC110V
220 : AC220V
12 : DC12V
24 : DC24V
48 : DC48V |

Common Specifications

⊙ **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 table)
⊙ 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
⊙ Embedded buzzer has 1 sound by default,
  but up to 3 sounds can be ordered (※See table)
  3 sounds are available by default for AUW-L125L model
⊙ Operating Temperature : -25℃ ~ +50℃
⊙ Material : **Globe** [GPPS] / [PC] (AUW-L125, L125L models)
      Body [ABS] / [SUS 304] (AUW-L150S model)

Embedded buzzer specifications

Buzzer	Output	Timbre	
Buzzer AB	Max. Power 5W	Basic	Beep~~~Beep
		Additional option	Beep ~ Beep ~ Beep Dingdong Dingdong
Melody AM	Max. Volume 90dB	Basic	Fur Elise
		Additional option	Home Sweet Home London Bridge is Falling Down
Siren AS		Basic	Urgent
		Additional option	Emergency Fire

Features of each Model

Model	Features
AUW - L60	Steady / Flashing type, no embedded buzzer
AUW - L80	–
AUW - L100	Magnet , Cigarette lighter plug (for DC12V only) **option**
AUW - L125	Magnet , Cigarette lighter plug (for DC 12V only) **option** High luminance available
AUW - L125L	Long body type, High luminance and Voice sound option available
AUW - L150S	SUS body , High luminance available

? Manual switch to select operation

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

DIP/SW	1	2	1	2	1	2	1	2
DIP Switch	ON KSD02H 9K 1 2		ON KSD02H 9K 1 2		ON KSD02H 9K 1 2		ON KSD02H 9K 1 2	
ON				■		■	■	■
OFF	■	■	■		■			
Operation	Steady		Revolving		Revolving/ Flashing		Flashing	

AUW-L Series

AUW-L60B/BF

Technical Diagram
Unit: mm

Ø66
71
119
48
15
3-M4
3-Ø5 Fitting Holes
120°
Ø 37.7
28
33
(Identical single fitting holes)
※ Wire type: 1.25 control wire

AUW	-	L60	-	①	-	②	①	②
		LED Steady / Flashing Warning Light		Operation		Voltage	B : steady / BF : flashing	110 : AC110V / 220 : AC220V / 12 : DC12V / 24 : DC24V

AUW-L60B / BF
LED Steady / Flashing Warning Light
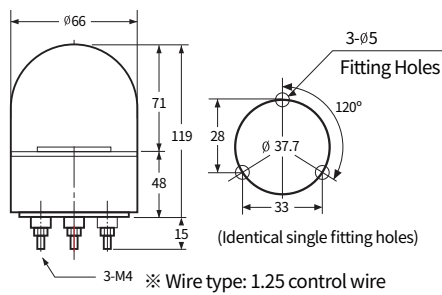
⊙ Ø60mm, small LED Steady / Flashing Warning Light
⊙ Material: **Globe** [GPPS], **Body** [ABS]

Model	Voltage	Current	LED EA	Weight	Color
AUW-L60B AUW-L60BF	AC110V	0.01(A)	16EA	157g	● Red ● Yellow ● Green ● Blue
	AC220V	0.02(A)	16EA	157g	
	DC12V	0.09(A)	16EA	129g	
	DC24V	0.15(A)	16EA	129g	

AUW-L80
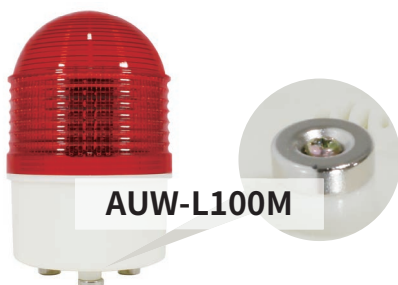
AUW-L80
Multiple Function LED Warning Light

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

Model	Voltage	Current	LED EA	Weight	Color
AUW-L80	AC110V	0.02(A)	24EA	373g	● Red ● Yellow ● Green ● Blue
	AC220V	0.03(A)	24EA	373g	
	DC12V	0.13(A)	24EA	296g	
	DC24V	0.21(A)	24EA	296g	

AUW-L100

AUW-L100
Multiple Function LED Warning Light

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

Model	Voltage	Current	LED EA	Weight	Color
AUW-L100	AC110V	0.03(A)	54EA	455g	● Red ● Yellow ● Green ● Blue
	AC220V	0.06(A)	54EA	455g	
	DC12V	0.11(A)	54EA	269g	
	DC24V	0.23(A)	54EA	275g	
	DC48V	0.38(A)	54EA	314g	

AUW-L100M

AUW-L Series

Multiple Function LED Warning Light

AUW-L80

Ø83
92
143
51
15
3-M4

3 - Ø5
Fitting Holes
120°
37
Ø49.49
43

(Identical single fitting holes)

※ Wire type: 1.25 control wire

AUW-L100

91.5
164
102
62
55
10.5

Ø60
3 - Ø6
Fitting Holes
54
30

AUW-L125

AUW-L125

Multiple Function LED Warning Light

- ⊙ 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]
- ⊙ Color : ● Red ● Orange ● Green ● Blue

＊High luminance

Model	Voltage	Current		LED EA		Weight	
		High*	Standard	High*	Standard	High*	Standard
AUW-L125	AC110V	0.05(A)	0.03(A)	90ea	54ea	646g	623g
	AC220V	0.1(A)	0.06(A)	90ea	54ea	646g	623g
	DC12V	0.19(A)	0.11(A)	90ea	54ea	370g	347g
AUW-L125H	DC24V	0.38(A)	0.23(A)	90ea	54ea	370g	347g
	DC48V	0.66(A)	0.38(A)	90ea	54ea	415g	373g

AUW-L125MC

Magnet type &
Cigarette lighter plug Option
(for DC12V only)

AUW-L125L

AUW-L125L

Multiple Function LED Warning Light

- ⊙ Ø125mm, long body standard Multiple Function LED Warning Light
- ⊙ 3 sounds by default for embedded buzzer, maximum volume. 100dB
- ⊙ 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]
- ⊙ Color : ● Red ● Orange ● Green ● Blue

＊High luminance

Model	Voltage	Current		LED EA		Weight	
		High*	Standard	High*	Standard	High*	Standard
AUW-L125	AC110V	0.05(A)	0.03(A)	90ea	54ea	1197g	1174g
	AC220V	0.1(A)	0.06(A)	90ea	54ea	1197g	1174g
	DC12V	0.19(A)	0.11(A)	90ea	54ea	917g	894g
AUW-L125H	DC24V	0.38(A)	0.23(A)	90ea	54ea	917g	894g
	DC48V	0.66(A)	0.38(A)	90ea	54ea	962g	920g

Multiple Function LED Warning Light

AUW-L150S   Multiple Function LED Warning Light

⊙ 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]

AUW-L150S

Model	Voltage	Current	LED EA	Weight	Color
AUW-L150S Standard	AC110V	0.03(A)	54EA	1179g	● Red ● Orange ● Green ● Blue
	AC220V	0.06(A)	54EA	1179g	
	DC12V	0.11(A)	54EA	880g	
	DC24V	0.23(A)	54EA	880g	
	DC48V	0.38(A)	54EA	880g	

Model	Voltage	Current	LED EA	Weight	Color
AUW-L150SH High Luminance	AC110V	0.05(A)	90EA	1202g	● Red ● Orange ● Green ● Blue
	AC220V	0.1(A)	90EA	1202g	
	DC12V	0.19(A)	90EA	903g	
	DC24V	0.38(A)	90EA	903g	
	DC48V	0.66(A)	90EA	922g	

Technical Diagram   Unit: mm

AUW-L125
Ø104 / 90 / 161 / 71 / 15 / 57 / Ø125 / 2 - M6
2Hole - Ø7 Fitting Holes / Ø57

AUW-L125L
Ø104 / 134 / 208 / 74 / 15 / Ø125 / 2 - M6
2Hole - Ø6 Fitting Holes / Ø57
※ Wire type: 1.25 control wire

AUW-L150S
Ø127 / 133 / 210 / 77 / Ø155
3 - Ø7 Fitting Holes / 120° / 84.8 / Ø11.3 / 98 / 3 - M6 dust-proof rubber

AUW - CL Series
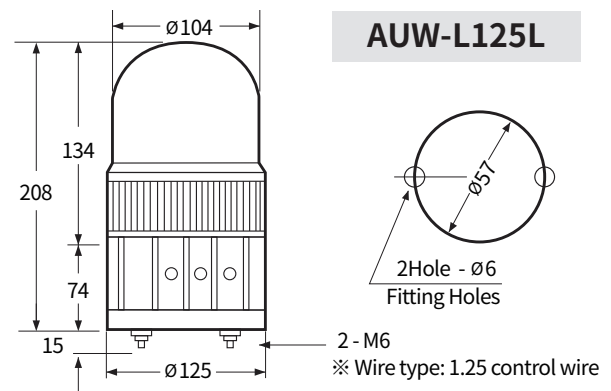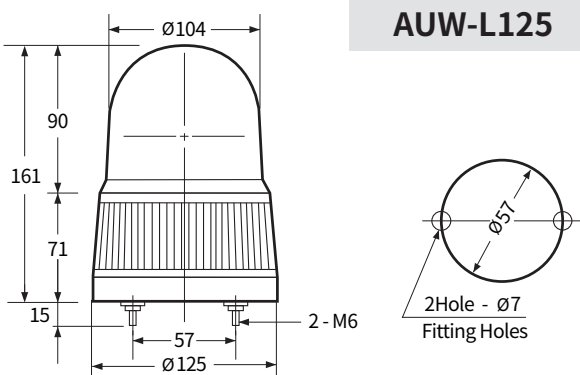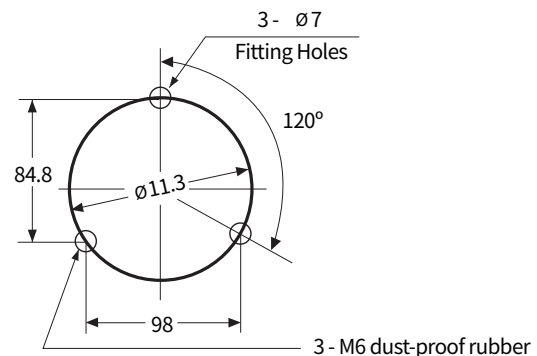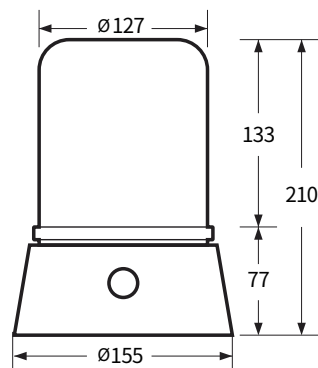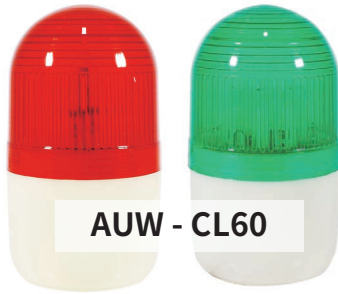
Caution LED Warning Light

Nomenclature

AUW - CL – ① **–** ②

	Type	Voltage
Caution LED Warning Light	**60** : Ø60 **80** : Ø80 **100** : Ø100 **125** : Ø125 **125L** : Ø125 long body **150S** : Ø150 SUS body	**110** : AC110V **220** : AC220V **12** : DC12V **24** : DC24V

AUW - CL60
Caution LED Warning Light

- ⊙ Ø60mm, small Caution LED Warning Light
- ⊙ Material : **Globe** [GPPS], **Body** [ABS]
- ⊙ Operating Temperature : -25℃ – +50℃

MODEL	Voltage	Weight	Color
AUW - CL60	AC110V / 220V	147g	● Red ● Orange ● Green ● Blue
	DC12V / 24V	127g	

AUW - CL80
Caution LED Warning Light

- ⊙ Ø80mm, small Caution LED Warning Light
- ⊙ Material : **Globe** [GPPS], **Body** [ABS]
- ⊙ Operating Temperature : -25℃ – +50℃

MODEL	Voltage	Weight	Color
AUW - CL80	AC110V / 220V	204g	● Red ● Orange ● Green ● Blue
	DC12V / 24V	184g	

AUW - CL100
Caution LED Warning Light

- ⊙ Ø100mm, small Caution LED Warning Light
- ⊙ Material : **Globe** [GPPS], **Body** [ABS]
- ⊙ Operating Temperature : -25℃ – +50℃

MODEL	Voltage	Weight	Color
AUW - CL100	AC110V / 220V	260g	● Red ● Orange ● Green ● Blue
	DC12V / 24V	240g	

AUW - CL60

AUW - CL80

AUW - CL100

AUW - CL100

Features by Models

⊙ LED type, mainly used as a warning lamp

⊙ AUW - CL100 has magnet attachment znd additional cigarette lighter plug option (for DC12V only)

⊙ Appearance size is same as AUW - L series
-Drawing reference P.57

AUW - CL Series

Caution LED Warning Light

AUW - CL125

AUW - CL125 — Caution LED Warning Light

- Ø125mm, standard Caution LED Warning Light
- Magnet & Cigarette lighter plug option (for DC12V only) are available
- Material : **Globe** [PC], **Body** [ABS]
- Operating Temperature : -25℃ – +50℃

MODEL	Voltage	Weight	Color
AUW - CL125	AC110V/220V	328g	● Red ● Orange ● Green ● Blue
	DC12V/24V	303g	

AUW - CL125L

AUW - CL125L — Caution LED Warning Light

- Ø125 mm, long body standard Caution LED Warning Light
- Material : **Globe** [PC], **Body** [ABS]
- Operating Temperature : -25℃ – +50℃

MODEL	Voltage	Weight	Color
AUW - CL125L	AC110V/220V	467g	● Red ● Orange ● Green ● Blue
	DC12V/24V	442g	

AUW - CL150S

AUW - CL150S — Caution LED Warning Light

- Ø150 mm, SUS body standard Caution LED Warning Light
- Material : **Globe** [GPPS], **Body** [SUS304]
- Operating Temperature : -25℃ – +50℃

MODEL	Voltage	Weight	Color
AUW - CL150S	AC110V/220V	871g	● Red ● Orange ● Green ● Blue
	DC12V/24V	846g	

Example of use as a danger signal in construction sites

Features by Models

- LED type, mainly used as a warning lamp

- AUW - CL125 has magnet attachment znd additional cigarette lighter plug option (for DC12V only)

- Appearance size is same as AUW - L series
  -Drawing reference P.58
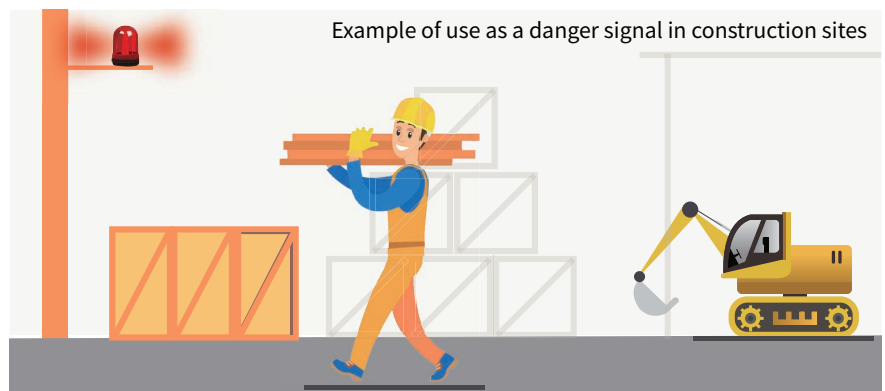
Speaker / Electronic Horn / Heavy Duty Electronic Horn

		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 / DC24 / DC48V		AC110V ~ 220V DC12V / DC24V / DC48V			
Dimension (mm)	Diameter	78 X 78	116 x 116	Ø210	116	120	134	134
	Height	-	-	-	196	161	154	154
	Depth	58	220	306	223	120	242	325
Material		ABS resin	ABS resin	ABS resin	Horn – ABS resin / Body – AL 7 type A AC7A			
Timbre & Volume	Melody	4 Sounds 90dB	3 Sounds 115dB	3 Sounds 125dB	3 Sounds 115dB		3 Sounds 130dB	
	Buzzer	4 Sounds 90dB	3 Sounds 115dB	3 Sounds 125dB	3 Sounds 115dB		3 Sounds 130dB	
	Siren	–	3 Sounds 115dB	3 Sounds 125dB	3 Sounds 115dB		3 Sounds 130dB	
Mounting structure		Panel buried	Self stand		Wall mounted		Direct mounted	
Max. Output		–	25W	35W	25W / 35W	25W	25W	50W
Cable entry								
Customization		–	15W / 20W	–	–		–	
Page		p.62	p.64	p.64	p.65	p.65	p.66	p.66

AUP-B Series

Panel Mounted Speaker

Nomenclature

90dB

AUP - B - ① - ②

Panel Mounted Speaker | Basic sound | Voltage

	①	②
	AM: Melody	110 / 220 : AC110V ~ 220
	AB : Buzzer	
	AV : Voice	12 / 24 : DC12V ~ 24V

Technical Diagram
Unit: mm

78 — 61
61
78

58
50
78 — 65 — 63

AUP-B
Panel Mounted Speaker
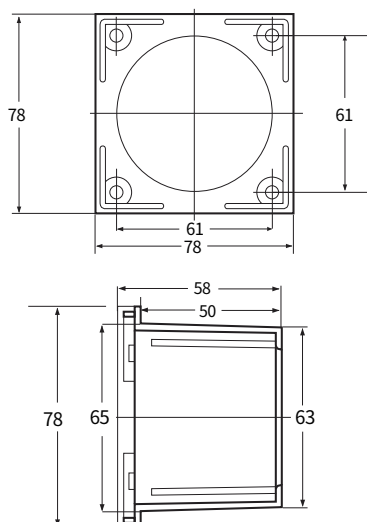
⊙ Although it is small in size, it makes a clear, high capacity sound.

⊙ A panel style buzzer and alarm made with 4 channels. Users can choose the timbre 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.

⊙ Buzzer volume : Max. 90dB

⊙ Material : ABS resin

⊙ Operating Temperature : -25℃ – +50℃

Customization

⊙ Users can control sound combinations through the DIP switches in the product (See Page 63)

If changing user settings is too difficult, the default setting is available when deciding order specifications.

- Timbre combination can be changed with the DIP switch in the product and external channel sockets.

- Volume can be adjusted by lightly turning the dial with a Phillips head screwdriver.

Circuit Diagram

Contact Type Circuit

	Transistor	Contact-free Relay
Type	NPN Transistor (2SC & 2SD)	Current output-type for DC load (open collector)
Withstand Voltage	Vc > 12V	
Current Capacity	IC > 10mA (10mA or more)	
Leakage Current	ICBD > 0.1mA (0.1mA or lower)	
Allowable Voltage	VAST < 1V (1V or lower)	

How to Use TR and SSR

MODEL	Embedded sound				Voltage	Current	Weight
	Warning sound	Channel	Basic Timbre	Volume			
AUP-B	Melody (AM) DIP switch No. 2, 3, 4 ON	A1	Turkish March	90dB	AC110V ~ AC220V	0.5(A)	272g
		A2	Piano Sonata				
		A3	Home Sweet Home				
		A4	Fur Elise				
	Buzzer (AB) DIP switch No. 1, 2 ON	A1	bee~bee~bee		AC12V ~ AC24V	1.2(A)	184g
		A2	Dingdong				
		A3	bee-ee				
		A4	bee bee bee bee				

Timbre Table

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

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 Series

Nomenclature

AUP - EWH -	①	–	②	–	③
	Output		Sound		Voltage

Electronic Horn	**25W** : 25W	**AS** : Siren	**110 / 220** : AC110V ~220
		AM : Melody	**12** : DC12V
	35W : 35W	**AB** : Buzzer	**24** : DC24V
		AV : Voice	**48** : DC48V

AUP-EWH

⊙ 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 ~ 125dB

⊙ Material : ABS resin

⊙ Operating Temperature : -25℃ – +50℃

AUP-EWH-25W

Technical Diagram — Unit: mm

MODEL	Embedded sound		Volume	Voltage & Current	Weight
	Sound	Basic timbre			
AUP-EWH 25W	Siren AS	Fire	115dB	AC110V / 220V compatible: 0.113A	AC : 1174g
		Emergency	115dB		
		Urgent	115dB		
	Melody AM	The Magic Flute	115dB	DC12V : 2.21A	
		Home Sweet Home	115dB		
		Fur Elise	115dB	DC24V : 1.02A	DC : 1122g
	Buzzer AB	bee bee bee bee	115dB		
		Ding dong	115dB	DC48V : 0.48A	
		beep ~ beep ~ beep	115dB		
AUP-EWH 35W	Siren AS	Fire	125dB	AC110V / 220V compatible: 0.122A	AC : 1431g
		Emergency	125dB		
		Urgent	125dB		
	Melody AM	The Magic Flute	125dB	DC12V : 2.44A	
		Home Sweet Home	125dB		
		Fur Elise	125dB	DC24V : 1.19A	DC : 1379g
	Buzzer AB	bee bee bee bee	125dB		
		Ding dong	125dB	DC48V : 0.59A	
		beep ~ beep ~ beep	125dB		

3-Ø9 Fitting Holes

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-EWH-35W

AUP-EWM Series

Heavy Duty Electronic Horn

Nomenclature

AUP-EWM-A

AUP-EWM-B

Cable Glands | Flexible Connecter

AUP - EWM -	① Type	② Output	③ Sound	④ Voltage
Heavy Duty Electronic Horn	A Type	25W : 25W	AS : Siren	110 / 220 : AC110V ~ 220
	B Type	35W : 35W	AM : Melody	12 : DC12V
			AB : Buzzer	24 : DC24V
				48 : DC48V

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. 115dB
⊙ Material : Aluminum housing + ABS resin Signal Horn
⊙ Operating Temperature : -25°C – +50°C
⊙ 25W / 35W two types of maximum outputs are available.

* See on Page 64

MODEL	Output	Sound*	Volume	Voltage	Weight
AUP-EWM-A	25W	Siren AS	115dB	AC110V ~ 220V DC12V DC24V DC48V	AC : 3067g DC : 3040g
		Melody AM	115dB		
		Buzzer AB	115dB		
	35W	Siren AS	115dB	AC110V ~ 220V DC12V DC24V DC48V	
		Melody AM	115dB		
		Buzzer AB	115dB		

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 64

MODEL	Output	Sound*	Volume	Voltage	Weight
AUP-EWM-B	25W	Siren AS	115dB	AC110V ~ 220V DC12V DC24V DC48V	AC : 2121g DC : 2101g
		Melody AM	115dB		
		Buzzer AB	115dB		

Technical Diagram

Unit: mm

AUP-EWM-A

196
115
116
120° 120°
PCD156
4 - Ø9 Fitting Holes
120 97
97
76
27
31
71
117
15 glands

AUP-EWM-B

140
66.5 68.5
120
100
28
2 - Ø8 Drill Through
4 - M6 Tap Depth 25
15 glands
161
80 81
14 11
117
15 glands

www.jointbox.com

AUP-EWM Series

AUP-EWM Series

Heavy Duty Electronic Horn

Nomenclature

AUP - EWM -	①	-	②	-	③	-	④
	Type		Output		Sound		Voltage

Heavy Duty Electronic Horn	C Type	25W : 25W 50W : 50W	AS : siren AM : Melody AB : Buzzer	110 / 220 : AC110V ~220 12 : DC12V 24 : DC24V 48 : DC48V

AUP-EWM-C 25W

AUP - EWM - C — Heavy Duty Electronic Horn

⊙ The housing is equipped with a flexible connector.
⊙ Excellent durability of 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 resin Horn
⊙ Operating Temperature : -25℃ ~ +50℃
⊙ 25W (One-way) / 50W (Two-way) of maximum output, with Electronic Horn
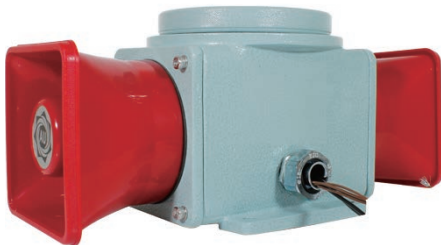
MODEL	Embedded sound		Volume	Voltage	Weight
	Sound	Basic timbre (3 sounds)			
AUP-EWM-C 25W (One-Way)	Siren AS	Fire	115dB	AC110V ~ 220V	AC: 2796g
		Emergency	115dB		
		Urgent	115dB	DC12V	
	Melody AM	The Magic Flute	115dB		
		Home Sweet Home	115dB	DC24V	DC: 2771g
		Fur Elise	115dB		
	Buzzer AB	bee bee bee bee	115dB	DC48V	
		Ding dong	115dB		
		bee~bee~bee~	115dB		
AUP-EWM-C 50W (Two-Way)	Siren AS	Fire	130dB	AC110V ~ 220V	AC: 3678g
		Emergency	130dB		
		Urgent	130dB	DC12V	
	Melody AM	The Magic Flute	130dB		
		Home Sweet Home	130dB	DC24V	DC: 3628g
		Fur Elise	130dB		
	Buzzer AB	bee bee bee bee	130dB	DC48V	
		Ding dong	130dB		
		bee~bee~bee~	130dB		

AUP-EWM-C 50W

Technical Diagram

Unit: mm

4 - Ø9
Fitting Holes

134 154

119   87   36

AUP-EWM-C-25W

4 - Ø9
Fitting Holes

134 154

119   87   119
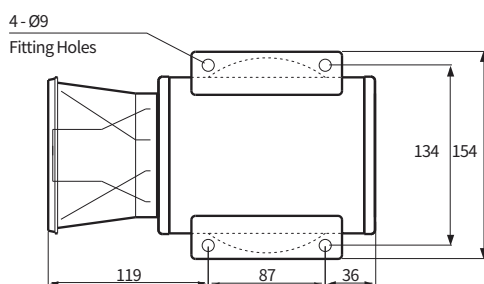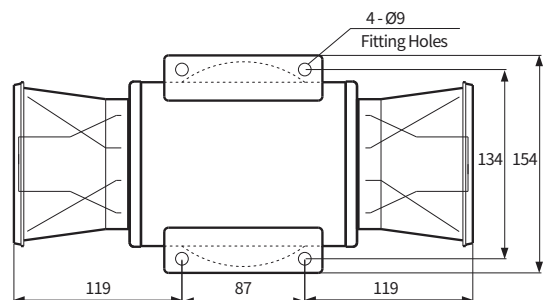
AUP-EWM-C-50W

Heavy Duty Industrial Warning Light
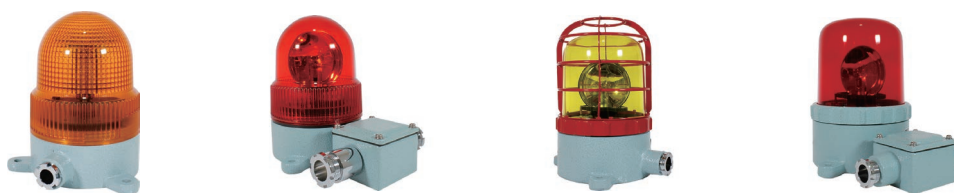
AUM Series				
Model	AUM-A-125	AUM-B-125	AUM-A-150	AUM-B-150
Voltage	AC110V / AC220V / DC 12V / DC24 / DC48V			
Dimensions (mm) — Outdia	Ø125	Ø125	Ø147	Ø147
Dimensions (mm) — Height	184	184	216	216
Dimensions (mm) — Depth	176	230	205	260
Material	**Body** [AL] , **Ring** [CU] , **Globe** [GPPS / PC]		**Body** [AL] , **Ring** [CU] , **Globe** [GPPS]	
Light source & Operation — Bulb Revolving	●	●	●	●
Light source & Operation — Multiple Function LED	●	●	●	●
Light source & Operation — Caution LED	●	●	●	●
Mounting structure	Direct mounted			
Cable entry	Cable Glands 15			
Customization	Protective net , High luminance LED		Protective net , High luminance LED	
Page	p.69	p.69	p.70	p.70

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 / DC 12V / DC24 / DC48V			
Dimensions (mm) — Outdia	153	153	119	150
Dimensions (mm) — Height	253	253	220	220
Dimensions (mm) — Depth	245.5	327.6	435	470
Material	**Body** [AL] , **Globe** [GPPS / PC] , **Electronic Horn** [ABS resin]			
Timbre & Volume — Melody	Basic 3 sounds 100 ~ 130dB		Basic 3 sounds (The Magic Flute , Home Sweet Home , Fur Elise) 120dB	
Timbre & Volume — Buzzer	Basic 3 sounds 100 ~ 130dB		Basic 3 sounds (bee bee bee bee , Ding dong , bee~bee~bee~) 120dB	
Timbre & Volume — Siren	Basic 3 sounds 100 ~ 130dB		Basic 3 sounds (Fire , Emergency , Urgent) 120dB	
Light source & Operation — Bulb Revolving	●		●	●
Light source & Operation — Multiple Function LED	●		●	●
Light source & Operation — Caution LED	●		●	●
Mounting structure	Direct mounted		Wall mounted	
Cable entry	#16 zinc connecter		Cable Glands 15	
Customization			High luminance LED	Protective net, High luminance LED
Page	p.71		p.74	p.75

AUM- A / B Series

Heavy Duty Industrial Warning Light

AUM - A-R150
(With protective net option)

Nomenclature

AUM –	①	–	②
	Type		**Warning Light Model**
	A type		**R125/150 :** Bulb Revolving(Ø125 /Ø150)
	B type		**L125/150 :** Multiple Function LED (Ø125 /Ø150)
			CL125/150 : Caution LED (Ø125 /Ø150)

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 outdoor, shipping, and heavy industry with completely waterproofed structure
⊙ Install the terminal block in the product or in the terminal box
⊙ Material : **Body** [AL 7 types A AC7A] , **Ring** [CU] ,
　　　　　　Globe [PS , PC (125mm LED & Caution LED)]
⊙ Standard body color : MUNSELL NO. 7.5G / 7.2
⊙ Operating Temperature : -25°C – +50°C

AUM Series Common Specifications
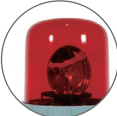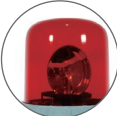
❶ Housing

⊙ 2 housing types depending on use A / B

AUM - A	AUM - B
⊙ Basic housing type without attached terminal box	⊙ Housing is equipped with a terminal box and 2 cable glands.
⊙ Suitable for installation in narrow spaces or on ceilings	⊙ Convenient line connection with the terminal box

❷ A Variety of Selectable Light Source & Function Combinations

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

❸ Protective Net

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

❺ High luminance type

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

❹ Fully enclosed structure

⊙ The tightly sealed warning light structure is waterproof and dustproof

❻ Cable entry

⊙ Basic cable gland is equipped for A type, while 2 cable glands are in the basic terminal box for B type

AUM-A-R125

AUM-B-R125

AUM-A-L125

AUM-B-L125

AUM-A-CL125
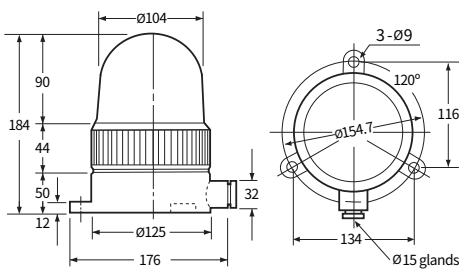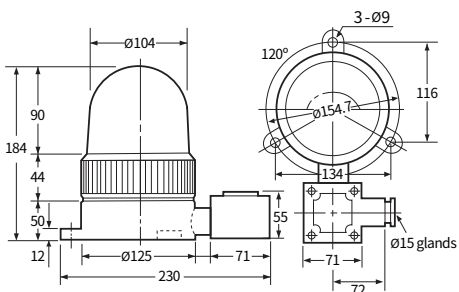
AUM-B-CL125

AUM - A / B - R125 Bulb Revolving

⊙ Ø125mm, heavy duty industrial Bulb Revolving Warning light
⊙ Rev. count : 90 – 100

MODEL	Voltage	Current	Bulb	Weight		Color
				A	B	
AUM-A-R125 & AUM-B-R125	AC110V	0.18(A)	12V 15W	1687g	2220g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.09(A)	12V 15W	1687g	2220g	
	DC12V	1.4(A)	12V 15W	1125g	1658g	
	DC24V	0.7(A)	24V 15W	1125g	1658g	
	DC48V	0.38(A)	48V 15W	1170g	1703g	

AUM - A / 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	0.03(A)	54EA	1337g	1877g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.06(A)	54EA	1337g	1877g	
	DC12V	0.11(A)	54EA	1047g	1683g	
	DC24V	0.23(A)	54EA	1055g	1691g	
	DC48V	0.38(A)	54EA	1070g	1706g	
High luminance AUM-A-L125H & AUM-B-L125H	AC110V	0.05(A)	90EA	1360g	1897g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.1(A)	90EA	1360g	1897g	
	DC12V	0.19(A)	90EA	1070g	1703g	
	DC24V	0.38(A)	90EA	1078g	1711g	
	DC48V	0.66(A)	90EA	1093g	1726g	

Technical Diagram
Unit: mm

Ø104
90
184
44
50
12
Ø125
176
3-Ø9
120°
Ø154.7
116
32
134
Ø15 glands

AUM - A - 125

Ø104
90
184
44
50
12
Ø125
230
71
3-Ø9
120°
Ø154.7
116
134
55
71
72
Ø15 glands

AUM - B - 125

AUM - A / B - CL125 Caution LED

⊙ Ø125mm, heavy duty industrial Caution LED Warning light

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

AUM - A/B-150 Series

Heavy Duty Industrial Warning Light

AUM - A / B - R150 Bulb Revolving

⊙ Ø150mm, heavy duty industrial Bulb Revolving Warning light
⊙ Rev. count : 90 – 100

MODEL	Voltage	Current	Bulb	Weight		Color
				A	B	
AUM-A-R150 & AUM-B-R150	AC110V	0.18(A)	12V 15W	2974g	3206g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.09(A)	12V 15W	2974g	3206g	
	DC12V	1.4(A)	12V 15W	2407g	2640g	
	DC24V	0.7(A)	24V 15W	2407g	2640g	
	DC48V	0.38(A)	48V 15W	2452g	2648g	
High luminance AUM-A-R150H & AUM-B-R150H	AC110V	0.3(A)	12V 35W	3000g	3232g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.18(A)	12V 35W	3000g	3232g	
	DC12V	3(A)	12V 35W	2433g	2666g	
	DC24V	1.5(A)	24V 15W	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	0.03(A)	54EA	2150g	2902g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.06(A)	54EA	2150g	2902g	
	DC12V	0.11(A)	54EA	1858g	2610g	
	DC24V	0.23(A)	54EA	1866g	2618g	
	DC48V	0.38(A)	54EA	1881g	2633g	
High luminance AUM-A-L150H & AUM-B-L150H	AC110V	0.05(A)	90EA	2170g	2922g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.1(A)	90EA	2170g	2922g	
	DC12V	0.19(A)	90EA	1878g	2630g	
	DC24V	0.38(A)	90EA	1886g	2638g	
	DC48V	0.66(A)	90EA	1901g	2653 g	

AUM - A / B - CL150 Caution LED

⊙ Ø150mm, heavy duty industrial Caution LED Warning light

MODEL	Voltage	Weight		Color
		A	B	
AUM-A-CL150 AUM-B-CL150	AC110V	2193g	2637g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	2173g	2617g	
	DC12V	2216g	2660g	
	DC24V	2216g	2660g	

AUM-A-R150
(+Protective net)

AUM-B-R150

AUM-A-L150

AUM-B-L150

AUM-A-CL150

AUM-B-CL150

Technical Diagram
Unit: mm

127
119
216
97
35
30
147
15
205
120°
Ø181.3
136
157
3-Ø9
Ø20 glands

AUM - A - 150

127
119
216
97
90
76
147
15
260
Ø20 glands
127
120°
Ø181.3
136
157
3-Ø9

AUM - B - 150

AUCS Series

Nomenclature

AUCS –	①	–	②	–	③	–	④
Ø125	Warning Light Model		High luminance		Output		Sound

R125: Bulb Revolving	No indication : Standard Type	25W	AS : Siren
L125 : Multiple Function LED			AM : Melody
CL125 : Caution LED	H : High luminance	50W	AB : Buzzer

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 7 types A AC7A] , **Globe** [PS, PC]
  Electronic Horn [ABS resin]
⊙ Standard body color : MUNSELL NO. 7.5G / 7.2
⊙ Operating Temperature : -25°C ~ +50°C

AUCS Series Common Specifications

❶ Light Source & Function

Bulb Revolving	Multiple Function LED	Caution LED
	steady / flashing-revolving / flashing / revolving	

❸ Max. Output & Horn Direction

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

❹ Fully enclosed structure

⊙ Highly durable aluminum housing is a perfectly enclosed structure with excellent waterproofing and dust-proofing.

❷ Horn Sound Selection

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

Warning sound	Channel	Basic timbre (3 sounds)
Siren AS	CH1	Fire
	CH2	Emergency
	CH3	Urgent
Melody AM	CH1	The Magic Flute
	CH2	Home Sweet Home
	CH3	Fur Elise
Buzzer AB	CH1	bee bee bee bee
	CH2	Ding dong
	CH3	bee~bee~bee~

Technical Diagram
Unit: mm

153
146
245.5
126
253
127
CABLE ENTRY #16

4 - Ø9
Fitting Holes
134 154
119   87   36

327.55
126
253
127
CABLE ENTRY #16

AUCS Series

AUCS - R125
Bulb Revolving Warning Light & Electronic Horn

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

Model	Voltage	Current	Sound & volume	Bulb	Weight	Color
AUCS-R125 **25W** (One-Way)	AC110V	0.42(A)	Siren **AS** / 120dB Fire / Emergency / Urgent	12V 15W	3760g	● Red (R)
	AC220V	0.21(A)		12V 15W		
	DC12V	3.76(A)	Melody **AM** / 120dB The Magic Flute Home Sweet Home Fur Elise	12V 15W	3697g	● Yellow (Y)
	DC24V	1.79(A)		24V 15W	3735g	
	DC48V	0.94(A)		48V 15W	3837g	
AUCS-R125 **50W** (Two-Way)	AC110V	0.65(A)		12V 15W	4659g	● Green (G)
	AC220V	0.32(A)		12V 15W		
	DC12V	5.97(A)	Buzzer **AB** / 120dB bee bee bee bee Ding dong bee~bee~bee	12V 15W	4594g	● Blue (B)
	DC24V	2.76(A)		24V 15W	4594g	
	DC48V	1.49(A)		48V 15W	4696g	

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	Sound & volume	LED EA	Weight	Color
AUCS-L125 **25W** (One-Way)	AC110V	0.29(A)	Siren **AS** / 120dB Fire / Emergency / Urgent	54EA	3390g	● Red (R)
	AC220V	0.14(A)		54EA		
	DC12V	2.51(A)	Melody **AM** / 120dB The Magic Flute Home Sweet Home Fur Elise	54EA	3097g	● Yellow (Y)
	DC24V	1.22(A)		54EA	3105g	
	DC48V	0.63(A)		54EA	3120g	
AUCS-L125 **50W** (Two-Way)	AC110V	0.52(A)		54EA	4272g	● Green (G)
	AC220V	0.26(A)		54EA		
	DC12V	4.72(A)	Buzzer **AB** / 120dB bee bee bee bee Ding dong bee~bee~bee	54EA	3979g	● Blue (B)
	DC24V	2.19(A)		54EA	3987g	
	DC48V	1.17(A)		54EA	4002g	

AUCS-CL125
Caution LED Warning Light& Electronic Horn

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

MODEL	Voltage	Sound & volume	Weight	Color
AUCS-CL125 **25W** (One-Way)	AC110V	Siren **AS** / 120dB Fire / Emergency / Urgent	3091g	● Red (R)
	AC220V			
	DC12V	Melody **AM** / 120dB The Magic Flute Home Sweet Home Fur Elise	3079g	● Yellow (Y)
	DC24V			
AUCS-CL125 **50W** (Two-Way)	AC110V		4112g	● Green (G)
	AC220V	Buzzer **AB** / 120dB bee bee bee bee Ding dong bee~bee~bee		
	DC12V		4085g	● Blue (B)
	DC24V			

AUCS Series - 25W

AUCS Series - 50W

Customization

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

AUMS Series

Nomenclature

AUMS – ① – ② – ③ – ④

Warning Light Model	High luminance	Output	Sound
R125/150 : Bulb Revolving	**No indication :** Standard Type	**25W**	**AS** : Siren
L125/150 : Multiple Function LED		**35W**	**AM** : Melody
CL125/150 : Caution LED	**H** : High luminance		**AB** : Buzzer

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

- ⊙ Wall mounted model configured with heavy duty industrial integral Warning Light & Electronic Horn
- ⊙ Timbre 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 7 types A AC7A] , **Globe** [PS, PC] , **Horn** [ABS resin]
- ⊙ Standard body color : MUNSELL NO. 7.5G / 7.2
- ⊙ Operating Temperature : -25℃ – +50℃

AUMS Series Common Specifications

❶ A Variety of Selectable Light Source & Function Combinations

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

❸ Protective Net

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

❺ High Luminance Type

- ⊙ High luminance type is available for excellent radiance effect

❷ 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 timbre

Warning sound	Channel	Basic timbre (3 sounds)
Siren **AS**	CH1	Fire
	CH2	Emergency
	CH3	Urgent
Melody **AM**	CH1	The Magic Flute
	CH2	Home Sweet Home
	CH3	Fur Elise
Buzzer **AB**	CH1	beep beep beep beep
	CH2	Ding dong
	CH3	bee~bee~bee~

❹ 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

AUMS-125 Series

Warning Light & Electronic Horn Combinations for Heavy Industry Applications

AUMS-R125
Bulb Revolving Warning Light & Electronic Horn

☉ Heavy Duty Industrial Bulb Revolving Warning Light & Electronic Horn Combinations (Ø125mm)
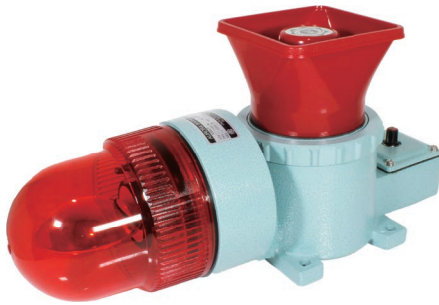☉ Rev. count : 90 – 100

AUMS-R125-25W

Model	Voltage	Current	Sound & volume	Bulb	Weight	Color
AUMS-R125 25W (standard)	AC110V	0.42(A)	Siren AS / 120dB	12V 15W	4720g	● Red (R)
	AC220V	0.21(A)		12V 15W		● Yellow (Y)
	DC12V	3.76(A)	Melody AM / 120dB	12V 15W	4153g	● Green (G)
	DC24V	1.79(A)	Buzzer AB / 120dB	24V 15W		● Blue (B)
	DC48V	0.94(A)	(See table below)	48V 15W	4198g	

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 / flashing / revolving) 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	0.29(A)	Siren AS / 120dB Fire / Emergency / Urgent	54EA	4250g	● Red (R)
	AC220V	0.14(A)		54EA		
	DC12V	2.51(A)	Melody AM / 120dB The Magic Flute	54EA	3957g	
	DC24V	1.22(A)	Home Sweet Home	54EA	4165g	● Yellow (Y)
	DC48V	0.59(A)	Fur Elise	54EA	3980g	
AUMS-L125H 25W (high luminance)	AC110V	0.31(A)		90EA	4270g	● Green (G)
	AC220V	0.18(A)	Buzzer AB / 120dB bee bee bee bee	90EA		● Blue (B)
	DC12V	2.79(A)	Ding dong	90EA	3977g	
	DC24V	1.37(A)	bee~bee~bee~	90EA	4185g	
	DC48V	0.67(A)		90EA	4060 g	

AUMS-CL125
Caution LED Warning Light & Electronic Horn

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

AUMS-CL125-25W

MODEL	Voltage	Sound & volume	Weight	Color
AUMS CL125 -25W	AC110V	Siren AS / 120dB	4052g	● Red (R)
	AC220V	Melody AM / 120dB		● Yellow (Y)
	DC12V		3452g	● Green (G)
	DC24V	Buzzer AB / 120dB		● Blue (B)

Technical Diagram   Unit: mm

AUMS 125

220

13
30
15 glands

4 -Ø9 Fitting Holes

31 119
Ø104

123   97   215
435

AUMS-150 Series

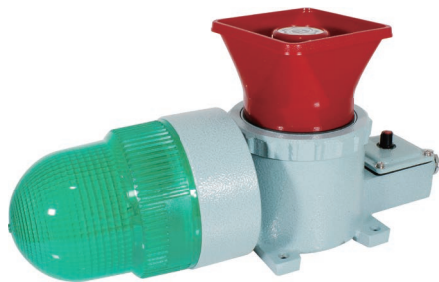## Warning Light & Electronic Horn Combinations for Heavy Industry Applications

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
⊙ Rev. count : 90 – 100

Model	Voltage	Current	Sound & volume	Bulb	Weight	Color
AUMS-R150 25W	AC110V	0.42(A)	Siren **AS** / 120dB Fire / Emergency / Urgent Melody **AM** / 120dB The Magic Flute Home Sweet Home, Fur Elise, Buzzer **AB** / 120dB bee bee bee bee Ding dong bee~bee~bee~	12V 15W	5290g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.21(A)		12V 15W		
	DC12V	3.76(A)		12V 15W	4723g	
	DC24V	1.79(A)		24V 15W		
	DC48V	0.85(A)		48V 15W	4768g	
AUMS-R150H 25W	AC110V	0.7(A)		12V 35W	5316g	
	AC220V	0.42(A)		12V 35W		
	DC12V	6.9(A)		12V 35W	4749g	
	DC24V	3.49(A)		24V 35W		

AUMS-R150 -25W

AUMS-L150 -25W

AUMS-CL150 -25W

AUMS-L150
Multiple Function LED Warning Light & Electronic Horn
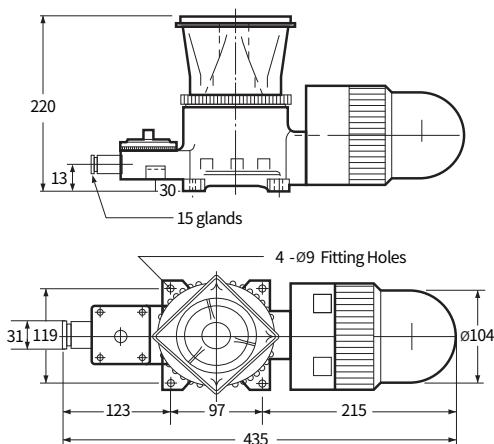
⊙ Heavy Duty Industrial Multiple Function LED Warning Light & Electronic Horn Combinations (Ø150mm)
⊙ 2 types of LED brightness: standard and high luminance
⊙ 4 types of operation (steady / flashing-revolving / flashing / revolving) are available using a microchip
⊙ Rev. count : Randomly cont

Model	Voltage	Current	Sound & volume	LED EA	Weight	Color
AUMS-L150 25W (standard)	AC110V	0.29(A)	Siren **AS** / 120dB Fire / Emergency / Urgent Melody **AM** / 120dB The Magic Flute Home Sweet Home, Fur Elise, Buzzer **AB** / 120dB bee bee bee bee Ding dong bee~bee~bee~	54EA	4840g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V	0.14(A)		54EA		
	DC12V	2.51(A)		54EA	4547g	
	DC24V	1.22(A)		54EA	4755g	
	DC48V	0.59(A)		54EA	4630g	
AUMS-L150H 25W (high luminance)	AC110V	0.31(A)		90EA	4860g	
	AC220V	0.18(A)		90EA		
	DC12V	2.79(A)		90EA	4567g	
	DC24V	1.37(A)		90EA	4775g	
	DC48V	0.67(A)		90EA	4650g	

Technical Diagram
Unit: mm

AUMS 150

220
30
15 glands

4 - Ø9 Fitting Holes
31 119
Ø150
123 97 256
470

AUMS-CL150
Caution LED Warning Light & Electronic Horn

⊙ Heavy Duty Industrial Caution LED Warning Light & Electronic Horn Combinations (Ø150mm)

MODEL	Voltage	Sound & volume	Weight	Color
AUMS CL150 25W	AC110V	Siren **AS** / 120dB Melody **AM** / 120dB Buzzer **AB** / 120dB	4688g	● Red (R) ● Yellow (Y) ● Green (G) ● Blue (B)
	AC220V		4688g	
	DC12V		4088g	
	DC24V		4088g	

Heavy Duty Industrial Warning Light & Electronic Horn Combinations

		AUPS Series		
Model		AUPS-01	AUPS-02	AUPS-03
Voltage		AC110V / AC220V / DC12V / DC24 / DC48V		
Dimensions (mm)	Width	200	200	250
	Height	315	341	383
	Depth	250	250	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
Customization		User selective customized		User selective customized Protective net
Page		p.77	p.77	p.77

Customized Warning Light & Electronic Horn Combinations

		AUHP / H Series	
Model		AUHP-300 / H-500	
Voltage		AC110V / AC220V / DC12V / DC24 / DC48V	
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.78	

AUPS Series

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.

⊙ PS-01 : Ø100 Warning Light **+** Electronic Horn
  PS-02 : Ø125 / Ø150 Warning Light **+** Electronic Horn
  PS-03 : Ø125 heavy duty industrial Warning Light **+** Electronic Horn

AUPS-01

⊙ Small Ø100 combined Warning Light **+** Electronic Horn
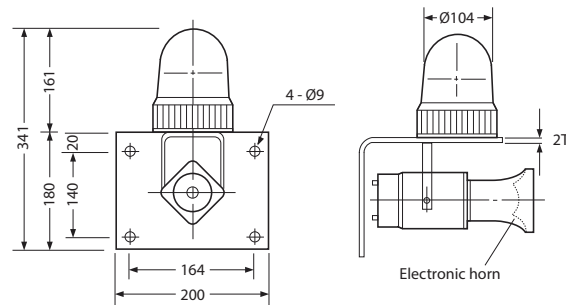
Technical Diagram	Unit: mm
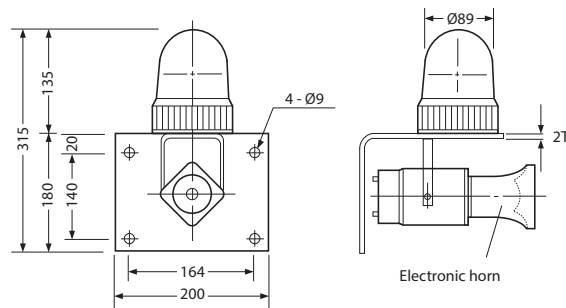
AUPS-02

⊙ Standard Ø125 / Ø150 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
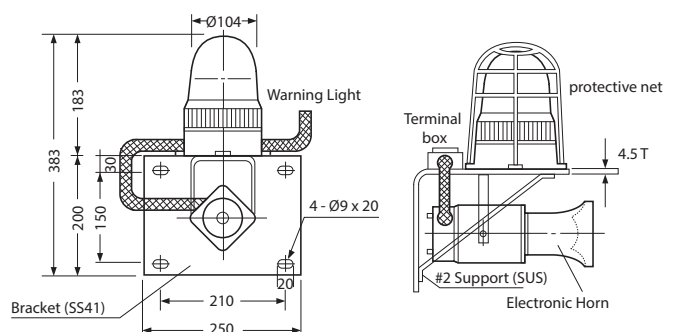
Warning Light Combination Model

Model	Warning Light Type		Warning Light
PS-01	Bulb Revolving	Ø100	AUW-R100 (P. 53)
	Multiple Function LED		AUW-L100 (P. 57)
	Caution LED		AUW-CL100 (P. 60)
PS-02	Bulb Revolving	Ø125 & Ø150	AUW-R125 (P. 53) AUW-R150S (P. 54)
	Multiple Function LED		AUW-L125 (P. 58)* AUW-L150S (P.59)*
	Caution LED		AUW-CL125 (P. 61) AUW-CL50S (P. 61)
PS-03	Heavy duty industrial Bulb Revolving	Ø125	AUM-R125 (P. 69)
	Heavy duty industrial Multiple Function LED		AUM-L125 (P. 69)*
	Heavy duty industrial Caution LED		AUM-CL125 (P. 69)

* High luminance available model
  (For more details about the Warning Light, see P. 50)

AU - HP Series

Special Order LED Warning Light & Electronic Horn
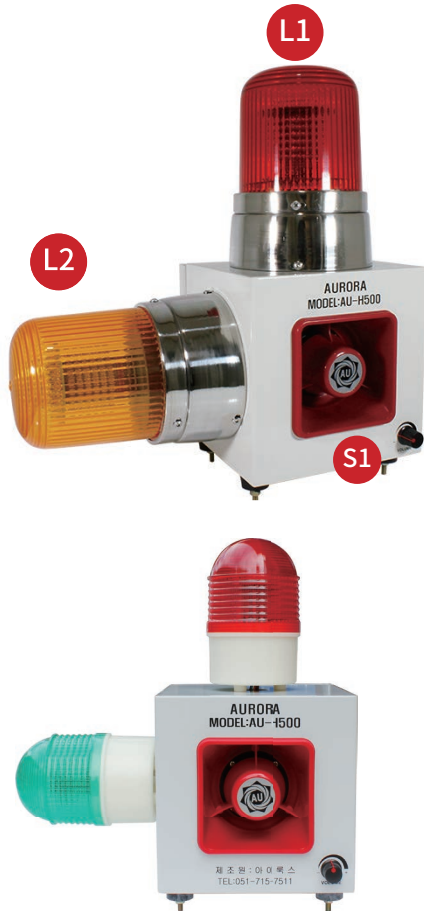
Special Order LED Warning Light & Electronic Horn

⊙ 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.

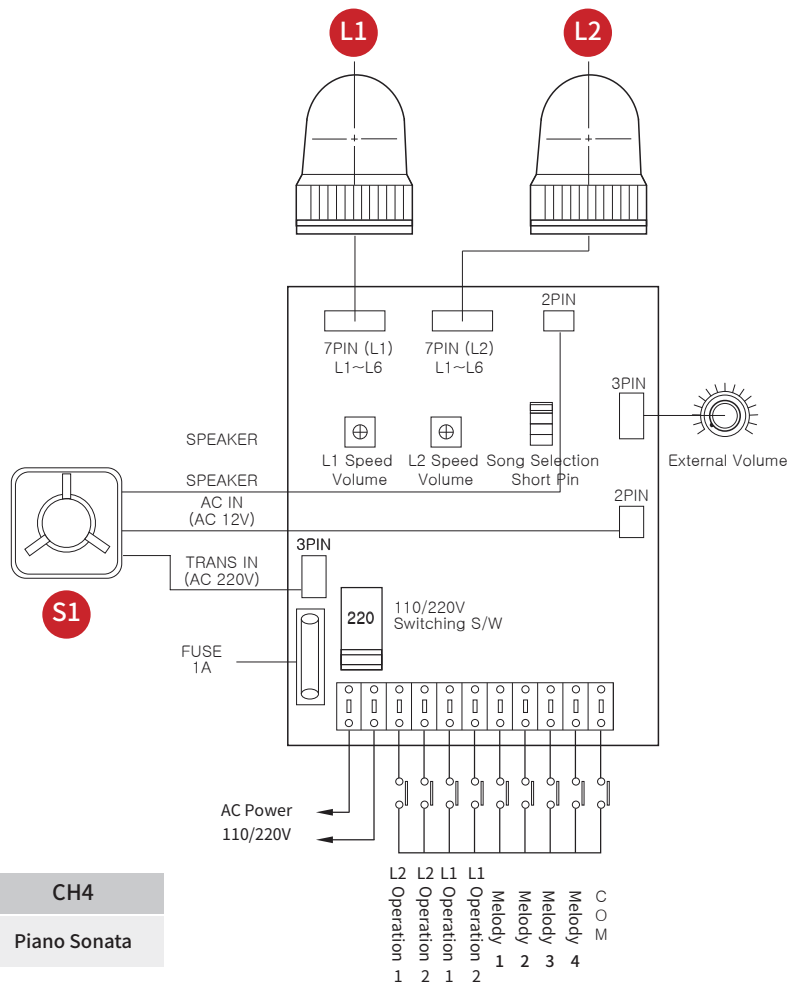⊙ Volume is adjustable with external volume controller.

⊙ Body color : gray or ivory

⊙ Please contact us to order optional products.

Product Combination Configuration

(See detailed specifications in p. 56– 59)

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)
				● Blue (B)
Electronic Horn		AUP - EWH - 25W (P.64)		

4 Melody Sounds

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

Product Wiring Diagram

Technical Diagram

Unit: mm

AU-HP300

AU-HP300

AU-H500

Ø6 Dust-Proof Rubber
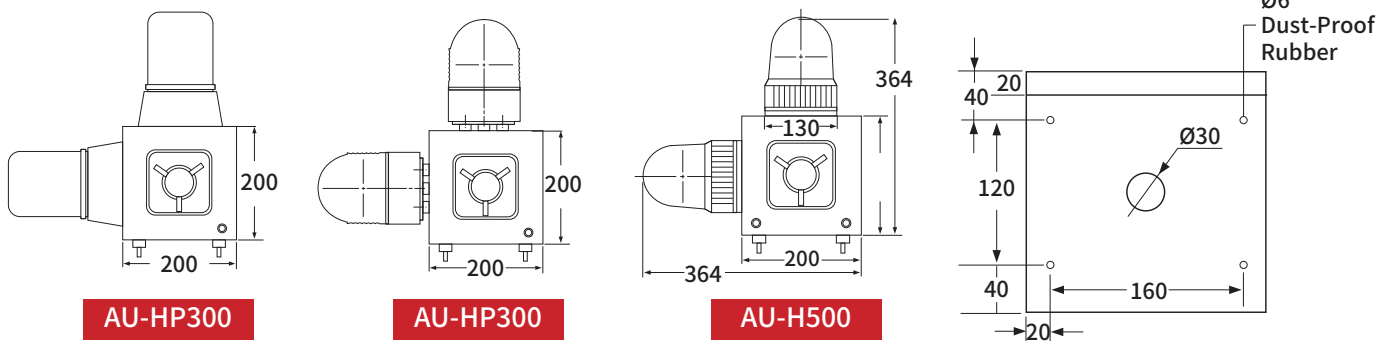
Machine Light

Nomenclature

SG - [LED] - [ML] - [146]

① = ML
② = 146

① **Product name**
Machine Light

② **Product size(mm)**
Length

SG-LED-ML-146

Feature

Acquired CE certification
To prevent glare on the operator, the glass is frosted.
The irradiation angle can be adjusted to the desired
angle using the bracket provided.

Electrical Specifications

Input voltage : AC100V ~ 240V (50/60Hz) / DC24V

Description

The machine lights are made of aluminum profile and die cast, and the glass is a chemically strengthened glass that can
withstand heat or shock. Effective heat dissipation is provided by the heat sink structure on the back of the product.
Machine lights are used for various purposes, such as on work sites, product assembly/inspection lines, machine tools,
and for wide area lighting. As it is waterproof with an IP65 protection rating, it can be used smoothly in places with
splashing cutting oil or oily water, and has been launched in 4 types with different sizes.

Mounting with bracket

Product Specifications

Operating temperature : -20℃ ~ +85℃
Protection rating : IP65
Tolerance : ± 1mm
Power Code length : 3M
Material : (Body) Aluminum
          (Lens) PC light diffusion(ML-146) /
           Chemical heat stre ngthened glass(ML-280,ML-414,ML-548)
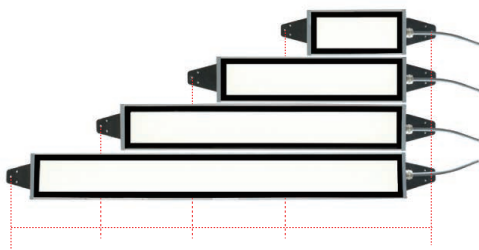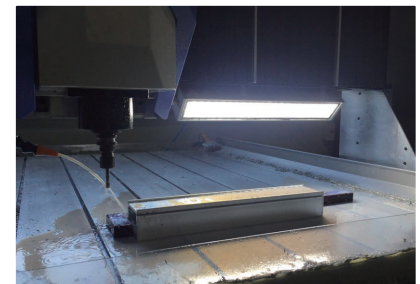   (Side) Aluminum Die casting

Safety Specifications

CE

Model	Size(mm)	Mounting Size with bracket	Illuminance (at 1m)	Power consumption (AC / DC)	Weight(g)
SG-LED-ML-146	65 X 50 X 146mm	260mm	165lux / 650lm	7W / 12W	770g
SG-LED-ML-280	65 X 50 X 280mm	294mm	280lux / 1300lm	14W / 24W	1200g
SG-LED-ML-414	65 X 50 X 414mm	529mm	460lux / 1950lm	21W / 36W	1570g
SG-LED-ML-548	65 X 50 X 548mm	663mm	615lux / 2600lm	28W / 48W	1800g

Working Light

Nomenclature

SG - [WL] - [A220]
①   ②

① **Product name**
Working Light

② **Product type**
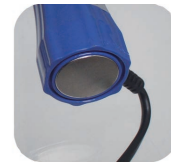A220 : Basic
C   : Rechargeable

SG-WL- A220

Switch   **Headlamp**

Magnet   **DC jack**

Feature

LED lamp is mounted on the head
Bellows are connected to the headlamp to allow for flexible movement
Uses a neodymium magnet with strong magnetic force
There are two types: the basic wire type and the rechargeable type

Product Specifications

Color : Blue
LED color : White
Illuminance (at 20cm) : 1400 lux
Operating temperature : -10℃ ~ +60℃
Input voltage : AC100~240V / DC24V

Description

The work light can be used in the field by fixing it to the required position using powerful neodymium magnets and bellows. It can help increase concentration on work on ships, milling, and tapping that require precision work, and can be used for general purposes as a reading lamp. It can be easily turned on and off using the power button attached to the head, and is available as a basic type and a rechargeable type, so you can use it according to the location.

Product type	Basic	Rechargeable
Model	SG-WL-A220	SG-WL-C
Size (mm) (Including bellows)	Head Ø43mm / Length 525mm	Head Ø43mm / 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

SG - LED - [1] [S] - [000]
         ①   ②   ③

① Product size(mm)
1 : 150mm   2 : 298mm
3 : 446mm   4 : 594mm

② Product color
S : Silver   B : Black

③ Option
000: Basic (bracket)
110: Neodymium magnet (2EA) + switch
011: Bellows with magnet + switch
100: Neodymium magnet (2EA)
010: Switch

SG-LED-1B

SG-LED-1S

Switch

Fixed bracket

Neodymium magnet

Bellows with magnet

Product Specifications

Product color : Silver / Black
LED Color : White / Red, Blue (220V Only)
Illuminance : 63 lux (at 1m) / 190 lux (at 0.5m)
Rated voltage : AC220V (50/60Hz), AC110V, DC24V
Power Code length : 100mm
Operating temperature : -10℃ ~ +60℃
Features : Can be produced in a range of sizes
up to 4m, in 148mm increments
Various options can be selected

※ Power Code length : 1M

Model	Size(mm)
SG-LED-1S(B)	25 X 33 X 150(mm)
SG-LED-2S(B)	25 X 33 X 298(mm)
SG-LED-3S(B)	25 X 33 X 446(mm)
SG-LED-4S(B)	25 X 33 X 594(mm)

Rechargeable LED Light

Nomenclature

SG - LED - [1] [C] - [01]
         ①   ②   ③

① Product size(mm)
1 : 150mm   2 : 298mm

② Product type
Rechargeable

③ Number of batteries
1ea / 2ea

Neodymium magnet

Battery specifications

18650A 3.7V 2600mAh Lithium-ion battery

Service voltage : 3.7V / Maimum 4.2V
Operating temperature : -20℃ ~ 60℃
Charging : Fully charged in 3 hours
Service time : 5 hours of continuous use

※Charger is selling separately

Product Specifications

Product color : Black
LED Color : White
Illuminance : 63lux (at 1m) / 190lux (at 0.5m)
Operating temperature : -10℃ ~ +60℃
Features : 2 neodymium magnets are mounted

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

Signal Tower

Nomenclature

SG - [70] [ST] [5] - [220A] [OF]
     ①   ②   ③   ④   ⑤

① **Product size(mm)**
   70 X 70mm

② **Product name**
   Signal Tower

③ **LED lamp color**
   5 Color (R, Y, G, B, W)

④ **Input voltage**
   AC100~240V / DC24V

⑤ **Indicating operation**
   ON : Steady / OF : Flashing

Product Specifications

Lens color : Transparent
LED color : Red, Yellow, Green, Blue, White
Rated voltage : AC100~240V / DC24V
Power consumption : 16W
Operating temperature : -20℃ ~ +70℃
Indicating operation : Steady / Flashing
Signal sound : Buzzer < Volume Max. 90dB at 1m >
Material : Main body - Aluminum profile / Bracket - ABS incombustible
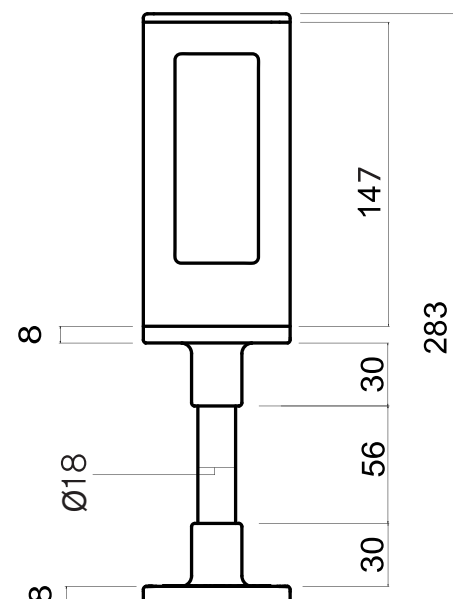Lens - Polycarbonate / Pole - Aluminum

Description

A signal tower is installed on a machine or at a work site to inform workers of the machine status or risks using colored lights and buzzers. Unlike existing tower lamps that send a signal with the lens color for the work environment, it enables users to recognize the signal intuitively and clearly using a system that can change the color of the LED itself.

Size(mm)	W 70mm x L 70mm x H 283mm
Mounting Size (mm)	60.8mm X 60.8mm
Mounting hole	Ø4.5

memo

Oil Skimmer

Installation

Install the oil skimmer at the cover of the coolant tank. The oil skimmer can be easily installed through a simple cutting process

- 144.5mm
- 310mm
- Waste Oil Tank
- Oil Skimmer Body
- 400mm
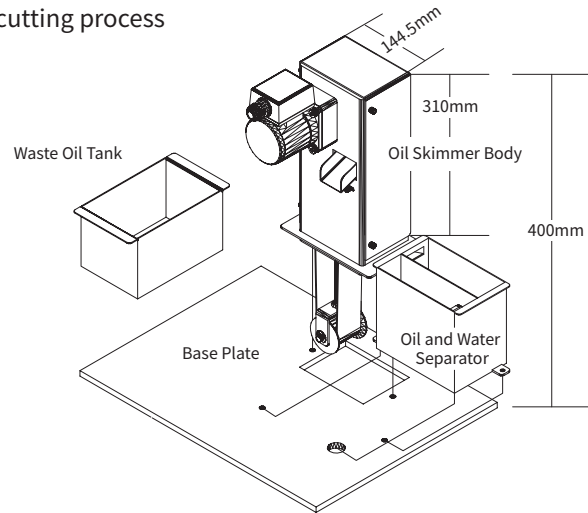- Base Plate
- Oil and Water Separator

Precautions for Use

1. Because some parts may become damaged by impact to the product, take care to avoid external shock

2. Remodeling is not possible as it may cause damage or affect performance

3. Special attention is required because any moisture damage to this model may cause safety accidents

4. Please make sure that the power of the motor is appropriate first before supplying power

5. All parts shall be fixed and tightened perfectly before operating the product

6. Make sure to wash off any contaminants from the skin during installation, repairing, and inspection

7. Keep away from objects that may cause damage or deformation on the belt area

8. Be careful that gloves and clothes are not stuck in the pulley during product operation. Make sure to turn off power and wear gloves when inspection and repair is required

9. Electric connection and disconnection must be done by qualified personnel

10. If oil is pooled on the floor, make sure that it does not overflow from the waste oil tank. Always make sure that the environment surrounding the product is clean. Otherwise, a slippery floor may cause safety accidents

11. The oil and water separator in this product is required to filter waste oil out a designated product must be used

12. Do not neglect the product when it is at high temperature because some parts of this product can be damaged by heat

Purpose of the product

Used for water coolant in machine tools (CNC machines, milling machines, processing machines, etc.)
Removes oil to prevent coolant contamination
- Prevent odor (remove contaminants)
- Improve coolant replacement cycle and save cost
 For oil stains on processed products,
- Save labor and cost for cleaning processed products.
 Suitable for installation in narrow spaces

Product Specifications

1. Body
   ① Cover removal type
   ② Color : Black
       (Other colors : Specific color designated by user)

2. Driving Unit
   ① Geared Motor : 25W

Ø3 200V 50/60HZ	Gear Ratio 1:100
Ø3 200V 50/60HZ	

   ② Head Pulley: MC Nylon (Brack)
       Fastened to the geared motor to drive the belt
   ③ Tail Pulley: MC Nylon (Brack)
       Supports tension and return for the belt

3. Belt
   ① PVC Belt (Blue)
   ② Belt Width : 50mm
   ③ Full Belt Length : 1040mm

4. Scraper
   ① Steel (1.6 t)
   ② Scrapper for the front of the belt

5. Total weight of oil skimmer body : 9.2kg

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