



IP66 STANDARD PLASTIC ENCLOSURE SYSTEMS

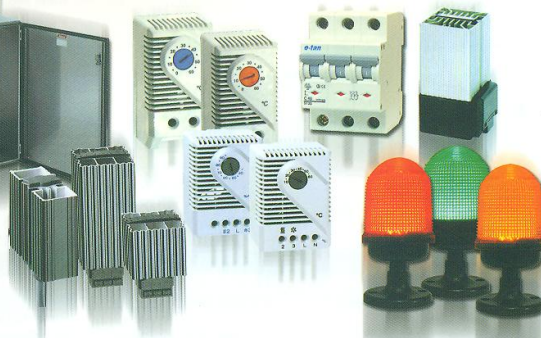


IP65 FRP ENCLOSURES



IP65 METAL WALL MOUNTING ENCLOSURES

Electric equipment production



■ Protection class of Enclosure in accordance with EN 60529, EN 50102 standard

First Number	Against ingress of solid objects	Second Number	Against ingress of water	IK	Against mechanical impacts
1P	Protection	1P	Protection	1K	Test
0	 Non-protected	0	 Non-protected	00	 Non-protected
1	 Protected against solid objects up to 50mm	1	 Protected against vertically falling water drops	01-05	 impact < 1 joule
2	 Protected against solid objects up to 12.5mm	2	 Protected against vertically falling water drops when enclosure tilted up to 15°	06	 impact 1 joule
3	 Protected against solid objects up to 2.5mm	3	 Protected against spraying water	07	 impact 2 joule
4	 Protected against solid objects up to 1.0mm	4	 Protected against splashing water	08	 impact 5 joule
5	 Dust-protected	5	 Protected against water jets	09	 impact 10 joule
6	 Dust-tight protected	6	 Protected against powerful water jets	10	 impact 20 joule
		7	 Protected against the effects of immersion between 15cm and 1m during 30min		
		8	 Protected against the effects of continuous immersion under pressure		



MINIATURE CIRCUIT BREAKERS 4-5
 高分斷小型斷路器



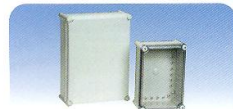
LED INTERATED FLASHING LIGHT 6-8
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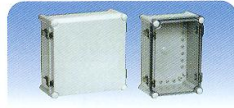
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 EN系列



EC series 13-14
 EC系列



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 ET系列



ET-H series 17-18
 ET-H系列



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 ES系列



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 ES-H系列



Internal door device 23
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EU series 24
 EU系列



TERMINAL BLOCK BOX 25-30
 端子台接線盒



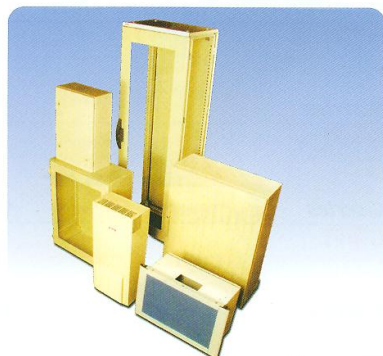
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With Transparent Security Glass Door

透明視窗開關箱

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不鏽鋼開關箱

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With Transparent Security Glass Door

透明視窗不鏽鋼開關箱

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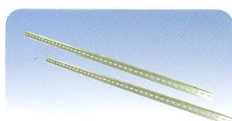
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ROSH DIN RAIL TS35

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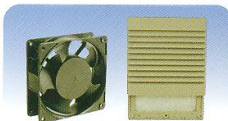
溫度調節器



HEATER

63-65

電熱器



FAN AND VENTILATION AND FILTRATION SYSTEM 66-72

風扇加滑蓋式通風濾網組



METAL PUSH BUTTON

73-80

金屬按鈕開關



EB SERICE BUZZER

81

蜂鳴器

e-tan[®]

ST20系列



Miniature circuit breakers Safemat
ST20 SERIES
高分斷小型斷路器
ST20系列

Miniature circuit breakers Safemat
ST20 SERIES
高分斷小型斷路器
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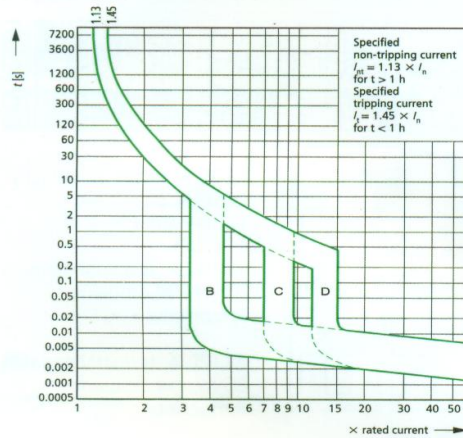


A0358057



ST20跳脫特性曲線

ST20 tripping characteristics at 30°C: B, C, D to IEC/EN 60 898



Technical data		技術參數
rated voltage U_e	額定電壓 U_e	240 / 415V
rated current I_n	額定電流 I_n	4 - 63A
rated frequency f_n	額定頻率 f_n	50 / 60HZ
rated impulse withstand voltage U_{imp}	額定耐衝擊電壓 U_{imp}	4000VAC
breaking capacity I_{cn}	分斷能力 I_{cn}	10KA
short-circuit capacity I_{cs}	連用短路容量 I_{cs}	7.5KA
breaking characteristics	分斷特性	B, C Type
isolating class	絕緣等級	class 3
ambient temperature	周溫	-5°C ~ +40°C
IP-class	保護等級	IP20
cross-section of connecting lead	連接導線	input/進線 1-25mm ² output/出線 1-16mm ²
electric standards	電氣標準	IEC/EN 60898
product certifications	國際認證	CS, CE, CCC, CB

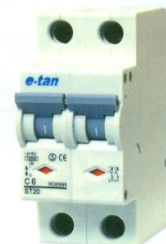
ST20 SERIES

ST20系列



ST20 B type

rated current In 額定電流 In	1pole 1極	2pole 2極	3pole 3極
4A	ST20-B4	ST20-2-B4	ST20-3-B4
6A	ST20-B6	ST20-2-B6	ST20-3-B6
10A	ST20-B10	ST20-2-B10	ST20-3-B10
16A	ST20-B16	ST20-2-B16	ST20-3-B16
20A	ST20-B20	ST20-2-B20	ST20-3-B20
25A	ST20-B25	ST20-2-B25	ST20-3-B25
32A	ST20-B32	ST20-2-B32	ST20-3-B32
40A	ST20-B40	ST20-2-B40	ST20-3-B40
50A	ST20-B50	ST20-2-B50	ST20-3-B50
63A	ST20-B63	ST20-2-B63	ST20-3-B63



ST20 C type

rated current In 額定電流 In	1pole 1極	2pole 2極	3pole 3極
2A	ST20-C2	ST20-2-C2	ST20-3-C2
4A	ST20-C4	ST20-2-C4	ST20-3-C4
6A	ST20-C6	ST20-2-C6	ST20-3-C6
10A	ST20-C10	ST20-2-C10	ST20-3-C10
16A	ST20-C16	ST20-2-C16	ST20-3-C16
20A	ST20-C20	ST20-2-C20	ST20-3-C20
25A	ST20-C25	ST20-2-C25	ST20-3-C25
32A	ST20-C32	ST20-2-C32	ST20-3-C32
40A	ST20-C40	ST20-2-C40	ST20-3-C40
50A	ST20-C50	ST20-2-C50	ST20-3-C50
63A	ST20-C63	ST20-2-C63	ST20-3-C63



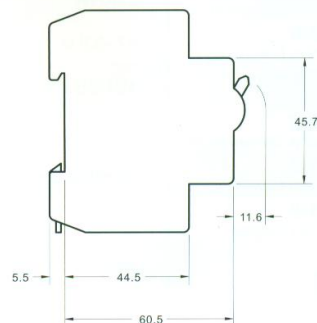
17.8



35.6



53.4



5.5 44.5 60.5 11.6 45.7

RWL系列LED警示燈 RWL SERIES_LED INTEGRATED FLASHING LIGHT

特色 Features

- * 採用LED發光，具有壽命長、省能之特點。
- * 寬廣輸入電壓AC85~265V，DC12~48V
- * 可自行設定閃爍與否功能。
- * 蜂鳴器功能。
- * 可輕易地更換LED發光板，便可改變顏色。
- * 防水、防塵，IP65
- * LED used as light source, ending problem of burned out bulbs.
- * Longer life, power saved.
- * Wide power ranges, AC type : 85~265V, DC type : 12~48V.
- * Choose flashing or continuous light self.
- * It's easy to change LED lighting board so that change lighting color.
- * protected degree IP65.



點亮前 Before



透明原色 ORIGINAL

點亮後 After



參數說明 Specifications

型號 Model	RWL-100-B-A	RWL-100-B-D	RWL-100-HB-A	RWL-100-HB-D
電源電壓 Rated Voltage	AC85~265V	AC/DC12~48V	AC85~265V	AC/DC12~48V
消耗電力 Power Consumption	2.36VA	1.51W	3.3VA	1.8W
額定頻率 Operation Frequency	47~63Hz	47~63Hz	47~63Hz	47~63Hz
閃爍次數/分 Flash/min.	104 ± 5	104 ± 5	104 ± 5	104 ± 5
操作溫度 Operation Temperature	-25~55°C	-25~55°C	-25~55°C	-25~55°C
操作溼度 Operation Humidity	45~85% RH	45~85% RH	45~85% RH	45~85% RH
保護等級 Protected Degree	IP65	IP65	IP65	IP65
重量 Weight	280g	280g	280g	280g

高亮度LED警示燈和超高亮度LED警示燈 HIGH LIGHT AND SUPER LIGHT



參數說明 Specifications

型號 Model	RWL-100-H-HB-B-A	RWL-100-H-HB-D	RWL-100-S-HB-A	RWL-100-S-HB-D
電源電壓 Rated Voltage	AC85~265V	AC/DC12~48V	AC85~265V	AC/DC12~48V
消耗電力 Power Consumption	3.3VA	1.8W	R:7.85VA Y:7.75VA G:7.92VA BU:8.4VA W:7.06VA	2.68W
額定頻率 Operation Frequency	47~63Hz	47~63Hz	47~63Hz	47~63Hz
閃爍次數/分 Flash/min.	104±5	104±5	104±5	104±5
操作溫度 Operation Temperature	-25~55℃	-25~55℃	-25~55℃	-25~55℃
操作溼度 Operation Humidity	45~85% RH	45~85% RH	45~85% RH	45~85% RH
保護等級 Protected Degree	IP65	IP65	IP65	IP65
重量 Weight	280g	280g	415g	415g

HOW TO ORDER : RWL-100-B-A-R
如何訂購警示燈

RWL-100 -  -  -  - 

光源亮度 LIGHTING

空白 : LED
H : 高亮度LED
S : 超亮度LED

SPACE : GENERAL LED
H : HIGH LIGHT LED
S : SUPER LIGHT LED

蜂鳴器 BUZZER

空白 : 無蜂鳴器
B : 80dB
HB : 100dB

SPACE : WITHOUT BUZZER
B : 80dB
HB : 100dB

電源 POWER VOLT

A : AC85~265V
D : DC12~48V

顏色 COLOR

R : 紅色 G : 綠色
A : 黃色 W : 白色
B : 藍色

R : RED G : GREEN
A : AMBER W : WHITE
B : BLUE

HOW TO ORDER LED LIGHTING BOARD

如何訂購LED發光板 :

RWL -  - 

光源亮度 LIGHTING

L : 一般LED L : GENERAL LED
H : 高亮度LED H : HIGH LIGHT LED
S : 超亮度LED S : SUPER LIGHT LED

顏色 COLOR

R : 紅色 G : 綠色 A : 黃色 W : 白色 B : 藍色
R : RED G : GREEN A : AMBER W : WHITE B : BLUE

切換開關功能 Switch Function



SW1 : 切換開關 Switch

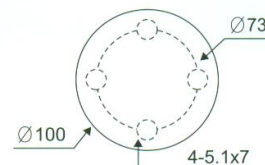
F : 閃爍 Flashing

C : 常亮 Continuous Lighting

BZSW2 : 切換開關 Buzzer Switch

ON : 蜂鳴器響 Buzzer Working

尺寸圖 Dimension



配線圖 Wired

A TYPE

No.	顏色 Color	功能 Function
1	紅色 Red	L(+)-電源 L(+)-Power
2	黑色 Black	N(-)-電源 N(-)-Power
3	黃綠色 Yellow-Green	地線 Earth

D TYPE

No.	顏色 Color	功能 Function
1	紅色 Red	+ -電源 + -Power
2	黑色 Black	- -電源 - -Power
3	黃綠色 Yellow-Green	地線 Earth

e-tan® enclosures are authenticated one of the superiority of quality on the domestic and global market.

■ **Level of dustproof and waterproof of e-tan products**
(Official test results can be issued ,if you need IP 66/67)

■ **A special feature of e-tan material**

- 1.With ultraviolet rays stabilizer addition in the outdoor change of color and the color which will burn appears very few even at long period use hour
- 2.It uses the material where the static electricity prevention material is added and it protects an electricity and the electronic relation machinery and tools.
- 3.It uses a high impulse of material and when hole processing and press processing it is very strong in external shock and does not break.
- 4.If you want other spec besides our standard spec, just let us know your plan.
We will offer the optimized products in the spec you designate with the material you choose.

■ **Flammability of e-tan Materials (UL Certification)**

ABS (gray) : UL 94-HB (Standard) or UL 94-V-O (optional,terminal box application)

ABS (blue gray) : UL 94-5VB or UL 94-V-O

P C (transparency) : UL 94-HB (Standard) or UL 94-V-O (optional)

P C (gray) : UL 94-5VA

POLYESTER : UL 94-5-VA

■ **An optional extra about material of e-tan's products**

A B S : Acrylonitrile Butadiene Styrene

P C (transparency) : Polycarbonate

P C (gray) : Polycarbonate + Acrylonitrile Butadiene Styrene (Standard)

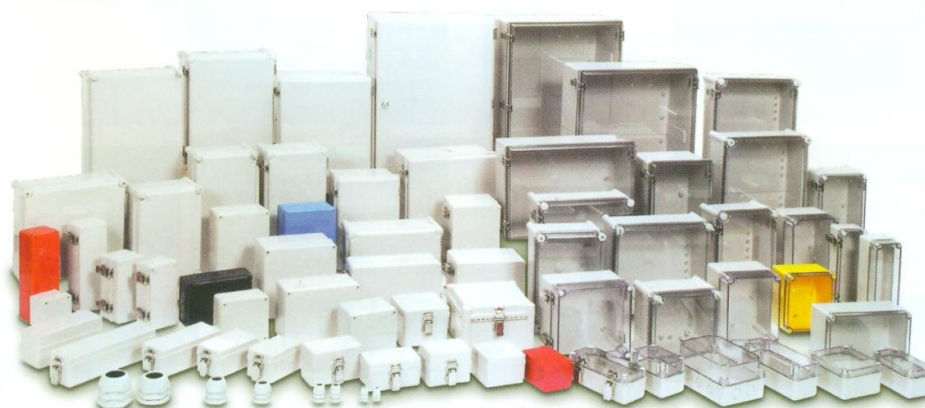
: Polycarbonate or Polycarbonate + strengthening glass fiber (optional)

POLYESTER : Polybutylene Terephthalate + Polycarbonate (Standard)

: Polybutylene Terephthalate or

Polybutylene Terephthalate + strengthening glass fiber (optional)

※The standard optional extra material could be changed for a quality improvement



The Control Box, Terminal Box, Switch Box, Joint Box,Cable Gland....with e-tan.

The special features of plastic enclosure

SUS Draw Latch

A dual lock is added to latch to prevent unfastening accounting to vibration.
Model No : M75 ,M65,M55



The part of mounting plate installation

In injection molding, setting a brass insert in our enclosures can fix a heavy with parts mounting plate.



SUS Hinge

To ensure durability is hinge has a various application to each of enclosures.
Model No : H75, H65,H55



Plastic Mounting plates(Double plates)

Made of ABS material to give strength and also easy to punch with excellent electrical insulation properties.



EN Series Draw Latch

Since its major parts are made of stainless,it is very strong.



The part of bracket installation

Bracket is fixed strongly because in injection molding,we put brass insert in our enclosures.



EN Series Single-Unit Hinge

Its single-unit plastic hinge is very strong and makes it easy to separate the cover from the base for easy punching or printing.



SUS Bracket

This bracket is used to fix enclosures on the walls.
Model No : B60, B50, B40



EN Series Roof Function

A protruded roof from the base prevents water from penetrating into the box and also keeps off the piled dust on the top when opening/ closing the cover.



Carving marking

We carved mark in order to drill easily when fitting draw latch and hinge on enclosures.



The part of cover screw installation

In injection molding,it is very solid because the screw molded single-unit type on the base.



Marking

Our enclosures are great in airtight power as you can make a hole exactly when you build draw latch and hinge.



Lock latch

It can hang a lock on enclosures.
Model No :K40



Gasket

As gasket is injected by using super-precision instrument, its perfect waterproof and dustproof are guaranteed.



Lock

This lock is internal.
Model No : K20



Rubber seal

On Purpose of waterproof and dustproof we assemble rubber seal at the time of building a draw latch and hinge etc.

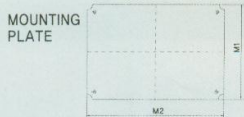
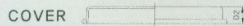
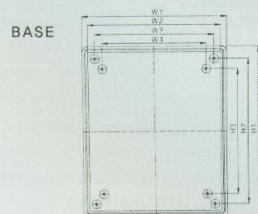


EN series IP66

Plastic single units-hinge, opening and closing type of stainless draw latch



Dimension (allowable error $\pm 1\text{mm}$)

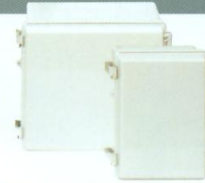


* The dimension of mounting plate is based on the plastic mounting plate and the dimension of a round bracket is steel's mounting plate.

Size	Division				W1	W2	W3	W4	H1	H2	H3	D1	D2	M1	M2
130 x 150 x 80	135	115	105	0	150	119.3	110	60	20	109	128				
130 x 180 x 80	135	108	95	0	193.4	145	140	65	20	113	161				
130 x 180 x 100	135	108	95	0	193.4	145	140	80	20	113	161				
150 x 150 x 90	150	130	120	0	150	120	110	70	20	123	123				
150 x 150 x 120	150	130	120	0	150	120	110	100	20						
160 x 210 x 100	160	137	120	0	218.4	170	160	75	25	129	179				
160 x 210 x 130	160	137	120	0	218.4	170	160	105	25	129	179				
160 x 260 x 100	160	144.6	120	0	268.4	220	210	75	25	129	224				
160 x 260 x 130	160	144.6	120	0	268.4	220	210	105	25	129	224				
170 x 220 x 110	170	149.6	132	0	228.4	182	160	80	30	129	179				
170 x 270 x 110	170	149.6	132	0	278.4	232	210	80	30	129	224				
210 x 210 x 100	210	192.3	170	120	218.4	170	150	75	25	179	179				
210 x 210 x 130	210	192.3	170	120	218.4	170	150	105	25	179	179				
190 x 280 x 100	190	173.5	148	120	288.4	238	210	70	30	159	248				
190 x 280 x 140	190	173.5	148	120	288.4	238	210	110	30	159	248				
200 x 300 x 130	200	181.8	152	129	308.4	252	226	100	30	166	266				
200 x 300 x 150	200	181.8	152	129	308.4	252	226	120	30	166	266				
200 x 300 x 180	200	181.8	152	129	308.4	252	226	150	30	166	266				
250 x 350 x 150	250	231.8	202	180	358.4	302	271	120	30	216	316				
250 x 350 x 180	250	231.8	202	180	358.4	302	271	150	30	216	316				
280 x 280 x 130	280	264.1	238	210	288.4	238	210	100	30	248	248				
280 x 380 x 130	280	264.1	238	210	388.4	338	310	100	30	248	348				
300 x 300 x 150	300	283.3	252	230	308.4	252	219	120	30	262	262				
300 x 300 x 180	300	283.3	252	230	308.4	252	219	150	30	262	262				
300 x 400 x 120	300	275.5	252	228	408.4	352	325	90	30	265	365				
300 x 400 x 150	300	275.5	252	228	408.4	352	325	120	30	265	365				
300 x 400 x 180	300	275.5	252	228	408.4	352	325	150	30	265	365				
350 x 350 x 150	350	333.8	270	270	358.4	302	270	120	30	320	320				
350 x 350 x 180	350	333.8	270	270	358.4	302	270	150	30	320	320				
350 x 450 x 120	350	325.4	300	274	457.4	400	365	90	30	306	407				
350 x 450 x 160	350	325.4	300	274	457.4	400	365	130	30	306	407				
350 x 450 x 200	350	325.4	300	274	457.4	400	365	170	30	306	407				
400 x 500 x 160	400	370.5	352	328	511.4	452	428	130	30	358	458				
400 x 500 x 200	400	370.5	352	328	511.4	452	428	170	30	358	458				
400 x 600 x 180	401	370.5	352	328	611.4	552	525	150	30	358	558				
400 x 600 x 230	401	370.5	352	328	611.4	552	525	200	30	358	558				
500 x 600 x 185	530	487.4	462	426	641.4	562	526	150	35	470	580				
500 x 600 x 225	530	487.4	462	426	641.4	562	526	220	35	470	580				
500 x 700 x 185	530	487.4	462	426	741.4	662	626	150	35	470	670				
500 x 700 x 255	530	487.4	462	426	741.4	662	626	220	35	470	670				
600 x 800 x 185	630	581.9	562	562	841.4	762	726	150	35	560	753				
600 x 800 x 285	630	581.9	562	562	841.4	762	726	250	35	560	753				

A special feature of EN series

1. Since a roof on the top/bottom of the base is produced, the e-tan box is designed to be able to completely prevent rain or dust from penetrating.
2. Easy to separate the cover from the base for easy processing or printing.
3. A hinge is attached to the product as a single unit and the major parts draw latch are made of stainless to be solid.
4. Hinge connection pins and draw latch are made of stainless and plastic to prevent rust.



EN series model and standardized list

Size WxHxD (included cover)	ABS		PC		POLYESTER		Mounting plate	
	gray cover	transparency cover	gray cover	transparency cover	gray cover	transparency cover	Steel	Plastic
130 x 150 x 80	EN-AG-131508	EN-AT-131508	EN-PG-131508	EN-PT-131508	EN-PCG-131508	EN-PCT-131508	M1315	1315 PL
130 x 180 x 80	EN-AG-131808	EN-AT-131808	EN-PG-131808	EN-PT-131808	EN-PCG-131808	EN-PCT-131808	M1318	1318 PL
130 x 180 x 100	EN-AG-131810	EN-AT-131810	EN-PG-131810	EN-PT-131810	EN-PCG-131810	EN-PCT-131810	M1318	1318 PL
150 x 150 x 90	EN-AG-151509	EN-AT-151509	EN-PG-151509	EN-PT-151509	EN-PCG-151509	EN-PCT-151509	M1515	1515 PL
150 x 150 x 120	EN-AG-151512	EN-AT-151512	EN-PG-151512	EN-PT-151512	EN-PCG-151512	EN-PCT-151512	M1515	1515 PL
160 x 210 x 100	EN-AG-162110	EN-AT-162110	EN-PG-162110	EN-PT-162110	EN-PCG-162110	EN-PCT-162110	M1621	1621 PL
160 x 210 x 130	EN-AG-162113	EN-AT-162113	EN-PG-162113	EN-PT-162113	EN-PCG-162113	EN-PCT-162113	M1621	1621 PL
160 x 260 x 100	EN-AG-162610	EN-AT-162610	EN-PG-162610	EN-PT-162610	EN-PCG-162610	EN-PCT-162610	M1626	1626 PL
160 x 260 x 130	EN-AG-162613	EN-AT-162613	EN-PG-162613	EN-PT-162613	EN-PCG-162613	EN-PCT-162613	M1626	1626 PL
170 x 220 x 110	EN-AG-172211	EN-AT-172211	EN-PG-172211	EN-PT-172211	EN-PCG-172211	EN-PCT-172211	M1722	1722 PL
170 x 270 x 110	EN-AG-172711	EN-AT-172711	EN-PG-172711	EN-PT-172711	EN-PCG-172711	EN-PCT-172711	M1727	1727 PL
210 x 210 x 100	EN-AG-212110	EN-AT-212110	EN-PG-212110	EN-PT-212110	EN-PCG-212110	EN-PCT-212110	M2121	2121 PL
210 x 210 x 130	EN-AG-212113	EN-AT-212113	EN-PG-212113	EN-PT-212113	EN-PCG-212113	EN-PCT-212113	M2121	2121 PL
190 x 280 x 100	EN-AG-192810	EN-AT-192810	EN-PG-192810	EN-PT-192810	EN-PCG-192810	EN-PCT-192810	M1928	1928 PL
190 x 280 x 140	EN-AG-192814	EN-AT-192814	EN-PG-192814	EN-PT-192814	EN-PCG-192814	EN-PCT-192814	M1928	1928 PL
200 x 300 x 130	EN-AG-203013	EN-AT-203013	EN-PG-203013	EN-PT-203013	EN-PCG-203013	EN-PCT-203013	M2030	2030 PL
200 x 300 x 150	EN-AG-203015	EN-AT-203015	EN-PG-203015	EN-PT-203015	EN-PCG-203015	EN-PCT-203015	M2030	2030 PL
200 x 300 x 180	EN-AG-203018	EN-AT-203018	EN-PG-203018	EN-PT-203018	EN-PCG-203018	EN-PCT-203018	M2030	2030 PL
250 x 350 x 150	EN-AG-253515	EN-AT-253515	EN-PG-253515	EN-PT-253515	EN-PCG-253515	EN-PCT-253515	M2535	2535 PL
250 x 350 x 180	EN-AG-253518	EN-AT-253518	EN-PG-253518	EN-PT-253518	EN-PCG-253518	EN-PCT-253518	M2535	2535 PL
280 x 280 x 130	EN-AG-282813	EN-AT-282813	EN-PG-282813	EN-PT-282813	EN-PCG-282813	EN-PCT-282813	M2828	2828 PL
280 x 380 x 130	EN-AG-283813	EN-AT-283813	EN-PG-283813	EN-PT-283813	EN-PCG-283813	EN-PCT-283813	M2828	2828 PL
300 x 300 x 150	EN-AG-303015	EN-AT-303015	EN-PG-303015	EN-PT-303015	EN-PCG-303015	EN-PCT-303015	M3030	3030 PL
300 x 300 x 180	EN-AG-303018	EN-AT-303018	EN-PG-303018	EN-PT-303018	EN-PCG-303018	EN-PCT-303018	M3030	3030 PL
300 x 400 x 120	EN-AG-304012	EN-AT-304012	EN-PG-304012	EN-PT-304012	EN-PCG-304012	EN-PCT-304012	M3040	3040 PL
300 x 400 x 150	EN-AG-304015	EN-AT-304015	EN-PG-304015	EN-PT-304015	EN-PCG-304015	EN-PCT-304015	M3040	3040 PL
300 x 400 x 180	EN-AG-304018	EN-AT-304018	EN-PG-304018	EN-PT-304018	EN-PCG-304018	EN-PCT-304018	M3040	3040 PL
350 x 350 x 150	EN-AG-353515	EN-AT-353515	EN-PG-353515	EN-PT-353515	EN-PCG-353515	EN-PCT-353515	M3535	3535 PL
350 x 350 x 180	EN-AG-353518	EN-AT-353518	EN-PG-353518	EN-PT-353518	EN-PCG-353518	EN-PCT-353518	M3535	3535 PL
350 x 450 x 120	EN-AG-354512	EN-AT-354512	EN-PG-354512	EN-PT-354512	EN-PCG-354512	EN-PCT-354512	M3545	3545 PL
350 x 450 x 160	EN-AG-354516	EN-AT-354516	EN-PG-354516	EN-PT-354516	EN-PCG-354516	EN-PCT-354516	M3545	3545 PL
350 x 450 x 200	EN-AG-354520	EN-AT-354520	EN-PG-354520	EN-PT-354520	EN-PCG-354520	EN-PCT-354520	M3545	3545 PL
400 x 500 x 160	EN-AG-405016	EN-AT-405016	EN-PG-405016	EN-PT-405016	EN-PCG-405016	EN-PCT-405016	M4050	4050 PL
400 x 500 x 200	EN-AG-405020	EN-AT-405020	EN-PG-405020	EN-PT-405020	EN-PCG-405020	EN-PCT-405020	M4050	4050 PL
400 x 600 x 180	EN-AG-406018	EN-AT-406018	EN-PG-406018	EN-PT-406018	EN-PCG-406018	EN-PCT-406018	M4060	4060 PL
400 x 600 x 230	EN-AG-406023	EN-AT-406023	EN-PG-406023	EN-PT-406023	EN-PCG-406023	EN-PCT-406023	M4060	4060 PL
500 x 600 x 185	EN-AG-506018	EN-AT-506018	EN-PG-506018	EN-PT-506018	EN-PCG-506018	EN-PCT-506018	M5060	5060 PL
500 x 600 x 255	EN-AG-506025	EN-AT-506025	EN-PG-506025	EN-PT-506025	EN-PCG-506025	EN-PCT-506025	M5060	5060 PL
500 x 700 x 185	EN-AG-507018	EN-AT-507018	EN-PG-507018	EN-PT-507018	EN-PCG-507018	EN-PCT-507018	M5070	5070 PL
500 x 700 x 255	EN-AG-507025	EN-AT-507025	EN-PG-507025	EN-PT-507025	EN-PCG-507025	EN-PCT-507025	M5070	5070 PL
600 x 800 x 185	EN-AG-608018	EN-AT-608018	EN-PG-608018	EN-PT-608018	EN-PCG-608018	EN-PCT-608018	M6080	6080 PL
600 x 800 x 285	EN-AG-608028	EN-AT-608028	EN-PG-608028	EN-PT-608028	EN-PCG-608028	EN-PCT-608028	M6080	6080 PL

A G 材質: ABS
顏色: 灰色

P G 材質: AC
顏色: 灰色

P C G 材質: POLYESTER
顏色: 灰色

A T 材質: 蓋(PC)
顏色: 蓋(透明)

P T 材質: 蓋(PC)
顏色: 蓋(透明)

P C T 材質: POLYESTER
顏色: 蓋(透明)

溫度	AG(ABS)	PG(PC/ABS)	PCG(PBT/PC)	Clear cover(Polycarbonate)
短時間	-40°C~+100°C	-40°C~+90°C	-40°C~+100°C	-40°C~+132°C
連續	-40°C~+80°C	-40°C~+85°C	-40°C~+75°C	-40°C~+130°C

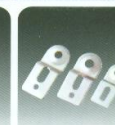
ABS:Acrylonitrile Butadiene Styrene
(UL94-HB)

PC:PolyCarbonate
(UL94-HB)

AC:ABS(30%)+PC(70%)
(UL94-5VA)

Polyester:PBT+PC
(UL94-5VA+UV(f1))

Accessories for enclosures



■ Steel mounting plates
(galvanization)

■ Plastic mounting plates
(ABS)

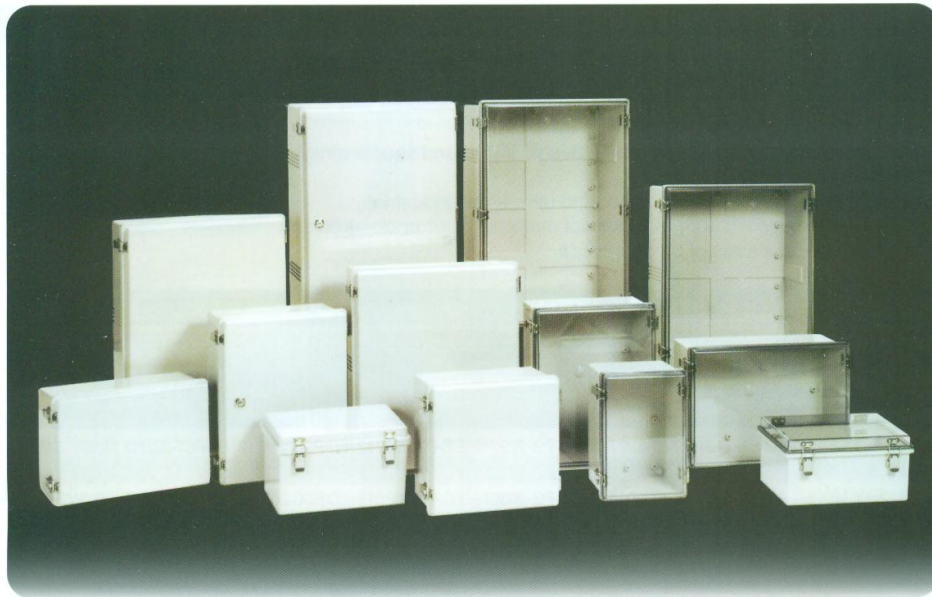
■ Lock latch (K40)

■ Lock (K20)

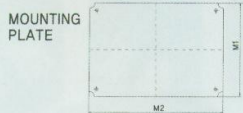
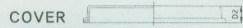
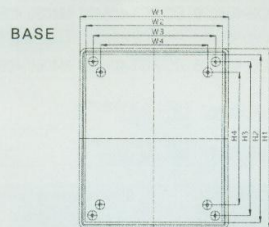
Bracket (B60, B50, B40)

EC series IP66

Stainless-hinge, opening and closing type of stainless draw latch



Dimension (allowable error $\pm 1\text{mm}$)



* The dimension of mounting plate is based on the plastic mounting plate and the dimension of a round bracket is steel's mounting plate.

Division Size	W1	W2	W3	W4	H1	H2	H3	H4	D1	D2	M1	M2
225 x 275 x 120	225	219	204.6	183	276	270	234	210	90	30	190	242
275 x 225 x 120	276	270	234	210	225	219	204	183	90	30	190	242
200 x 300 x 150	200	180	152	129	300	280	252	226	120	30	166	266
300 x 200 x 150	300	280	252	226	200	180	152	129	120	30	166	266
200 x 300 x 180	200	180	152	129	300	280	252	226	150	30	166	266
300 x 200 x 180	300	280	252	226	200	180	152	129	150	30	166	266
300 x 400 x 150	300	280	252	230	400	380	352	325	120	30	265	365
400 x 300 x 150	400	380	352	325	300	280	252	230	120	30	265	365
300 x 400 x 180	300	280	252	230	400	380	352	325	150	30	265	365
400 x 300 x 180	400	380	352	325	300	280	252	230	150	30	265	365
400 x 500 x 200	402	375	352	328	502	475	452	428	170	30	358	458
500 x 400 x 200	502	475	452	428	402	375	352	328	170	30	358	458
400 x 600 x 230	402	375	352	328	602	575	552	525	200	30	358	558

A special feature of EC series

1. Draw latch and hinge made of stainless steel hardly break in high frequency in opening and closing.
2. We raise hinge and latch dimensions in case of enclosures size elevation.

For that reason our enclosure can prevent sinking and secure airtight ability in opening and closing.

3. Our enclosure can be used in poor and dangerous industrial circumstances as we apply shockproof material to our enclosures and make up for structures of our enclosure.



EC series model and standardized list

Size WxHxD (included cover)	Product model						Mounting plate	
	ABS		PC		POLYESTER		Steel	Plastic
	gray cover	transparency cover	gray cover	transparency cover	gray cover	transparency cover	1.6mm	above 3mm
225 x 275 x 120	EC-AG-222712	EC-AT-222712	EC-PG-222712	EC-PT-222712	EC-PCG-222712	EC-PCT-222712	M2227	2227 PL
275 x 225 x 120	EC-AG-272212	EC-AT-272212	EC-PG-272212	EC-PT-272212	EC-PCG-272212	EC-PCT-272212	M2227	2227 PL
200 x 300 x 150	EC-AG-203015	EC-AT-203015	EC-PG-203015	EC-PT-203015	EC-PCG-203015	EC-PCT-203015	M2030	2030 PL
300 x 200 x 150	EC-AG-302015	EC-AT-302015	EC-PG-302015	EC-PT-302015	EC-PCG-302015	EC-PCT-302015	M2030	2030 PL
200 x 300 x 180	EC-AG-203018	EC-AT-203018	EC-PG-203018	EC-PT-203018	EC-PCG-203018	EC-PCT-203018	M2030	2030 PL
300 x 200 x 180	EC-AG-302018	EC-AT-302018	EC-PG-302018	EC-PT-302018	EC-PCG-302018	EC-PCT-302018	M2030	2030 PL
300 x 400 x 150	EC-AG-304015	EC-AT-304015	EC-PG-304015	EC-PT-304015	EC-PCG-304015	EC-PCT-304015	M3040	3040 PL
400 x 300 x 150	EC-AG-403015	EC-AT-403015	EC-PG-403015	EC-PT-403015	EC-PCG-403015	EC-PCT-403015	M3040	3040 PL
300 x 400 x 180	EC-AG-304018	EC-AT-304018	EC-PG-304018	EC-PT-304018	EC-PCG-304018	EC-PCT-304018	M3040	3040 PL
400 x 300 x 180	EC-AG-403018	EC-AT-403018	EC-PG-403018	EC-PT-403018	EC-PCG-403018	EC-PCT-403018	M3040	3040 PL
400 x 500 x 200	EC-AG-405020	EC-AT-405020	EC-PG-405020	EC-PT-405020	EC-PCG-405020	EC-PCT-405020	M4050	4050 PL
500 x 400 x 200	EC-AG-504020	EC-AT-504020	EC-PG-504020	EC-PT-504020	EC-PCG-504020	EC-PCT-504020	M4050	4050 PL
400 x 600 x 230	EC-AG-406023	EC-AT-406023	EC-PG-406023	EC-PT-406023	EC-PCG-406023	EC-PCT-406023	M4060	4060 PL

A G :材質: ABS
· 顏色: 灰色

P G :材質: AC
· 顏色: 灰色

P C G :材質: POLYESTER
· 顏色: 灰色

A T :材質: 蓋(PC)
· 顏色: 蓋(透明)

P T :材質: 蓋(PC)
· 顏色: 蓋(透明)

P C T :材質: POLYESTER
· 顏色: 蓋(透明)

溫度	AG(ABS)	PG(PC/ABS)	PCG(PBT/PC)	Clear cover(Polycarbonate)
短時間	-40℃~+100℃	-40℃~+90℃	-40℃~+100℃	-40℃~+132℃
連續	-40℃~+80℃	-40℃~+85℃	-40℃~+75℃	-40℃~+130℃

ABS:Acrylonitrile Butadiene Styrene
(UL94-HB)

PC:PolyCarbonate
(UL94-HB)

AC:ABS(30%)+PC(70%)
(UL94-5VA)

Polyester:PBT+PC
(UL94-5VA+UV(f1))

Accessories for enclosures



■Steel mounting plates
(galvanization)



■Plastic mounting plates
(ABS)



■Lock latch (K40)



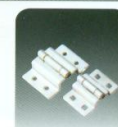
■Lock (K20)



■Bracket (B60, B50)



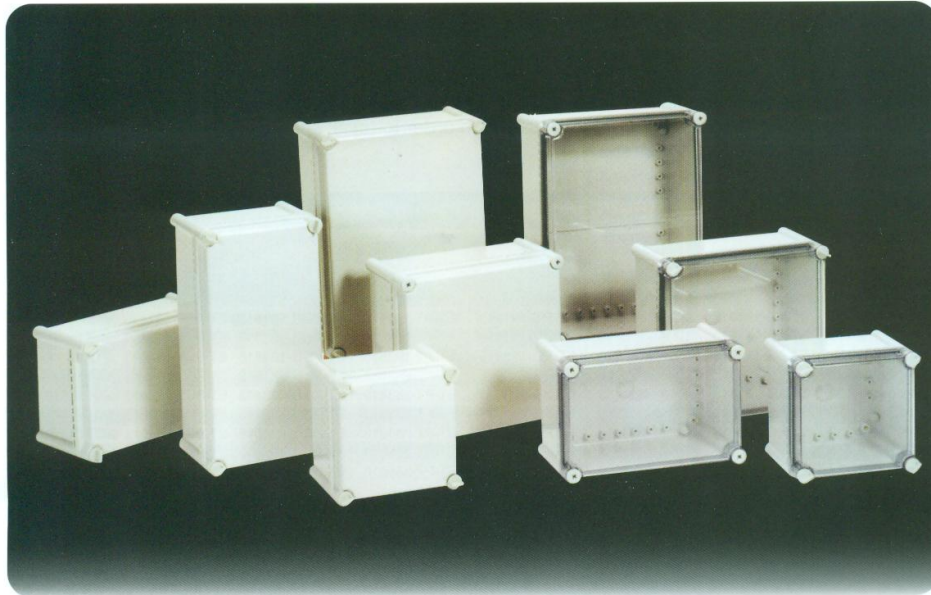
■Draw latch (M75, M65)



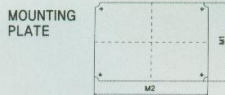
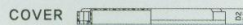
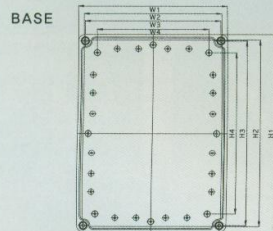
■Hinge (H75, H50)

ETseries IP66

Screw bolt opening-closing type

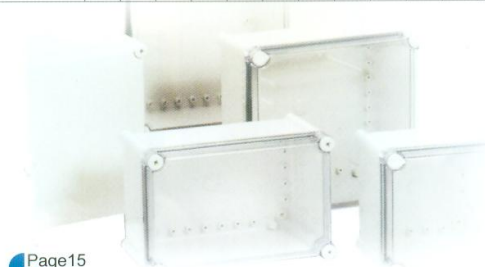


Dimension (allowable error $\pm 1\text{mm}$)



* The dimension of mounting plate is based on the plastic mounting plate.

Division Size	W1	W2	W3	W4	H1	H2	H3	H4	D1	D2	M1	M2
190 x 190 x 130	190	170	165	120	190	170	165	120	98	30	159	159
190 x 280 x 130	190	170	165	120	280	266	255	210	98	30	159	248
190 x 380 x 130	190	170	165	120	380	359	355	310	98	30	159	348
280 x 280 x 130	280	266	255	210	280	266	255	210	98	30	248	248
280 x 340 x 130	280	259	254.7	210	340	319	315	270	100	30	248	308
280 x 380 x 130	280	266	255	210	380	359	355	310	98	30	248	348
280 x 380 x 180	280	266	255	210	380	359	355	310	148	30	248	348
280 x 560 x 130	280	296	255	210	560	535	505	490	100	30	(232)	(535)
380 x 560 x 180	380	366	355	310	560	535	505	490	150	30	(345)	(535)



A special feature of ET series

1. In injection molding, fastening channel made as one with enclosure's body is superior on strength and is durable without crushing when you put the screw into channel.
2. Our enclosures produced in the four sides form in order to resist impact can guarantee outstanding durability.



ET series model and standardized list

Size WxHxD (included cover)	Product model						Mounting plate	
	ABS		PC		POLYESTER		Steel	Plastic
	gray cover	transparency cover	gray cover	transparency cover	gray cover	transparency cover	1.6mm	above 3mm
190 x 190 x 130	ET-AG-191913	ET-AT-191913	ET-PG-191913	ET-PT-191913	ET-PCG-191913	ET-PCT-191913	M1919	1919 PL
190 x 280 x 130	ET-AG-192813	ET-AT-192813	ET-PG-192813	ET-PT-192813	ET-PCG-192813	ET-PCT-192813	M1928	1928 PL
190 x 380 x 130	ET-AG-193813	ET-AT-193813	ET-PG-193813	ET-PT-193813	ET-PCG-193813	ET-PCT-193813	M1938	1938 PL
280 x 280 x 130	ET-AG-282813	ET-AT-282813	ET-PG-282813	ET-PT-282813	ET-PCG-282813	ET-PCT-282813	M2828	2828 PL
280 x 340 x 130	ET-AG-283413	ET-AT-283413	ET-PG-283413	ET-PT-283413	ET-PCG-283413	ET-PCT-283413	M2838	2834 PL
280 x 380 x 130	ET-AG-283813	ET-AT-283813	ET-PG-283813	ET-PT-283813	ET-PCG-283813	ET-PCT-283813	M2838	2838 PL
280 x 380 x 180	ET-AG-283818	ET-AT-283818	ET-PG-283818	ET-PT-283818	ET-PCG-283818	ET-PCT-283818	M2838	2838 PL
280 x 560 x 130	ET-AG-285613	ET-AT-285613	ET-PG-285613	ET-PT-285613	ET-PCG-285613	ET-PCT-285613	M2856	2828 PL
380 x 560 x 180	ET-AG-385618	ET-AT-385618	ET-PG-385618	ET-PT-385618	ET-PCG-385618	ET-PCT-385618	M3856	2838 PL

A G · 材質 Material : ABS · 顏色 Color : 灰色 Gray	P G · 材質 Material : AC · 顏色 Color : 灰色 Gray	P C G · 材質 Material : POLYESTER · 顏色 Color : 灰色 Gray
A T · 材質 Material : 蓋 Cover (PC) · 顏色 Color : 蓋 Cover (透明 Clear)	P T · 材質 Material : 蓋 Cover (PC) · 顏色 Color : 蓋 Cover (透明 Clear)	P C T · 材質 Material : POLYESTER · 顏色 Color : 蓋 Cover (透明 Clear)

溫度 Temperature	AG(ABS)	PG(PC/ABS)	PCG(PBT/PC)	Clear cover(Polycarbonate)
短時間 Short time	-40°C~+100°C	-40°C~+90°C	-40°C~+100°C	-40°C~+132°C
連續 Continuous	-40°C~+80°C	-40°C~+85°C	-40°C~+75°C	-40°C~+130°C

ABS:Acrylonitrile Butadiene Styrene (UL94-HB)	PC:PolyCarbonate (UL94-HB)	AC:ABS(30%)+PC(70%) (UL94-5VA)	Polyester:PBT+PC (UL94-5VA+UV(f1))
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Accessories for enclosures



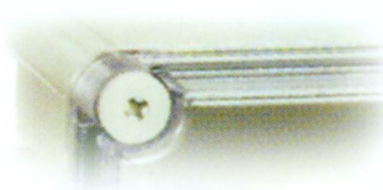
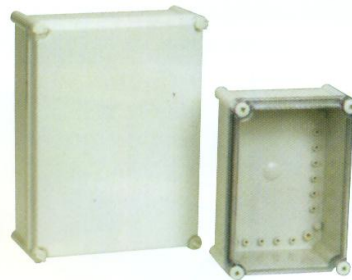
■Steel mounting plates
(galvanization)

■Plastic mounting plates(ABS)

■Cover screw
(basic specification) (CB28㉔)

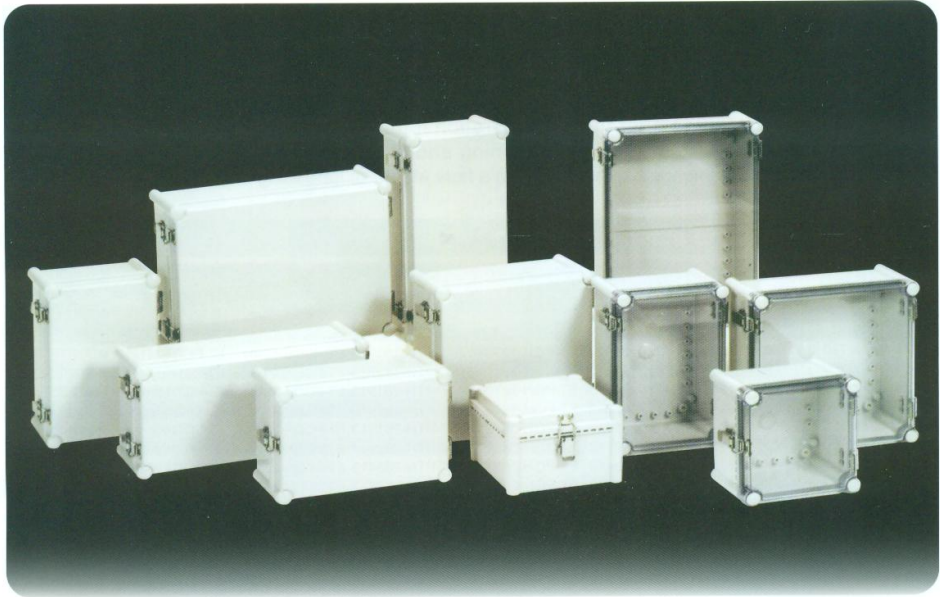
■Cover screw
(optional specification) (CB28㉔)

■Bracket (B50)

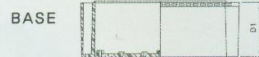
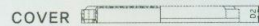
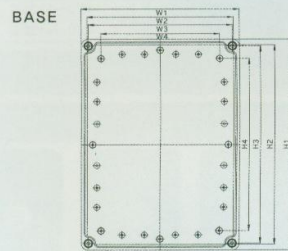


ET-H series IP66

Stainless-hinge, opening and closing type of stainless draw latch



Dimension (allowable error $\pm 1\text{mm}$)



*The dimension of mounting plate is based on the plastic mounting plate.

Size	Division				W1	W2	W3	W4	H1	H2	H3	H4	D1	D2	M1	M2
190 x 190 x 130	190	170	165	120	190	170	165	120	190	170	165	120	98	30	159	159
190 x 280 x 130	190	170	165	120	280	266	255	210	98	30	159	248				
280 x 190 x 130	280	266	255	210	190	170	165	120	98	30	159	248				
190 x 380 x 130	190	170	165	120	380	359	355	310	98	30	159	348				
380 x 190 x 130	380	359	355	310	190	170	165	120	98	30	159	348				
280 x 280 x 130	280	266	255	210	280	266	255	210	98	30	248	248				
280 x 340 x 130	280	259	254.7	210	340	319	315	270	100	30	248	308				
280 x 380 x 130	280	266	255	210	380	359	355	310	98	30	248	348				
380 x 280 x 130	380	359	355	310	280	266	255	210	98	30	248	348				
280 x 380 x 180	280	266	255	210	380	359	355	310	148	30	248	348				
380 x 280 x 180	380	359	355	310	280	266	255	210	148	30	248	348				
280 x 560 x 130	280	296	255	210	560	535	505	490	100	30	(232)	(535)				
380 x 560 x 180	380	366	355	310	560	535	505	490	150	30	(345)	(535)				



A special feature of ET-H series

1. Draw latch and hinge made of stainless steel hardly break in high frequency in opening and closing.
2. Airtight ability of our enclosures is excellent, because beginning with plan we produce our enclosures after due consideration if they are screw opening-closing type and draw latch opening and closing type.
3. For the sake of convenience a user can make a hole at part of furnishing latch with his own hands.



ET series model and standardized list

Size WxHxD (included cover)	Product model						Mounting plate	
	ABS		PC		POLYESTER		Steel	Plastic
	gray cover	transparency cover	gray cover	transparency cover	gray cover	transparency cover	1.6mm	above 3mm
190 x 190 x 130	ET-AGH-191913	ET-ATH-191913	ET-PGH-191913	ET-PTH-191913	ET-PCGH-191913	ET-PCTH-191913	M1919	1919 PL
190 x 280 x 130	ET-AGH-192813	ET-ATH-192813	ET-PGH-192813	ET-PTH-192813	ET-PCGH-192813	ET-PCTH-192813	M1928	1928 PL
280 x 190 x 130	ET-AGH-281913	ET-ATH-281913	ET-PGH-281913	ET-PTH-281913	ET-PCGH-281913	ET-PCTH-281913	M2819	2819 PL
190 x 380 x 130	ET-AGH-193813	ET-ATH-193813	ET-PGH-193813	ET-PTH-193813	ET-PCGH-193813	ET-PCTH-193813	M1938	1938 PL
380 x 190 x 130	ET-AGH-381913	ET-ATH-381913	ET-PGH-381913	ET-PTH-381913	ET-PCGH-381913	ET-PCTH-381913	M3819	3819 PL
280 x 280 x 130	ET-AGH-282813	ET-ATH-282813	ET-PGH-282813	ET-PTH-282813	ET-PCGH-282813	ET-PCTH-282813	M2828	2828 PL
280 x 340 x 130	ET-AGH-283413	ET-ATH-283413	ET-PGH-283413	ET-PTH-283413	ET-PCGH-283413	ET-PCTH-283413	M2834	2834 PL
280 x 380 x 130	ET-AGH-283813	ET-ATH-283813	ET-PGH-283813	ET-PTH-283813	ET-PCGH-283813	ET-PCTH-283813	M2838	2838 PL
380 x 280 x 130	ET-AGH-382813	ET-ATH-382813	ET-PGH-382813	ET-PTH-382813	ET-PCGH-382813	ET-PCTH-382813	M3828	3828 PL
280 x 380 x 180	ET-AGH-283818	ET-ATH-283818	ET-PGH-283818	ET-PTH-283818	ET-PCGH-283818	ET-PCTH-283818	M2838	2838 PL
380 x 280 x 180	ET-AGH-382818	ET-ATH-382818	ET-PGH-382818	ET-PTH-382818	ET-PCGH-382818	ET-PCTH-382818	M3828	3828 PL
280 x 560 x 130	ET-AGH-285613	ET-ATH-285613	ET-PGH-285613	ET-PTH-285613	ET-PCGH-285613	ET-PCTH-285613	M2856	2828 PL
380 x 560 x 180	ET-AGH-385618	ET-ATH-385618	ET-PGH-385618	ET-PTH-385618	ET-PCGH-385618	ET-PCTH-385618	M3856	2838 PL

A G · 材質 Material : ABS · 顏色 Color : 灰色 Gray	P G · 材質 Material : AC · 顏色 Color : 灰色 Gray	P C G · 材質 Material : POLYESTER · 顏色 Color : 灰色 Gray
A T · 材質 Material : 蓋 Cover (PC) · 顏色 Color : 蓋 Cover (透明 Clear)	P T · 材質 Material : 蓋 Cover (PC) · 顏色 Color : 蓋 Cover (透明 Clear)	P C T · 材質 Material : POLYESTER · 顏色 Color : 蓋 Cover (透明 Clear)

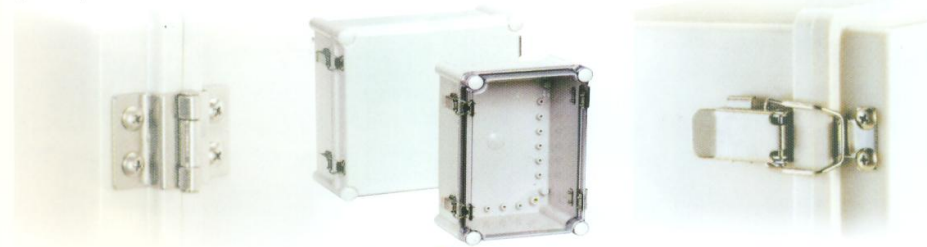
溫度 Temperature	AG(ABS)	PG(PC/ABS)	PCG(PBT/PC)	Clear cover(Polycarbonate)
短時間 Short time	-40°C~+100°C	-40°C~+90°C	-40°C~+100°C	-40°C~+132°C
連續 Continuous	-40°C~+80°C	-40°C~+85°C	-40°C~+75°C	-40°C~+130°C

ABS:Acrylonitrile Butadiene Styrene (UL94-HB)	PC:PolyCarbonate (UL94-HB)	AC:ABS(30%)+PC(70%) (UL94-5VA)	Polyester:PBT+PC (UL94-5VA+UV(f1))
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Accessories for enclosures

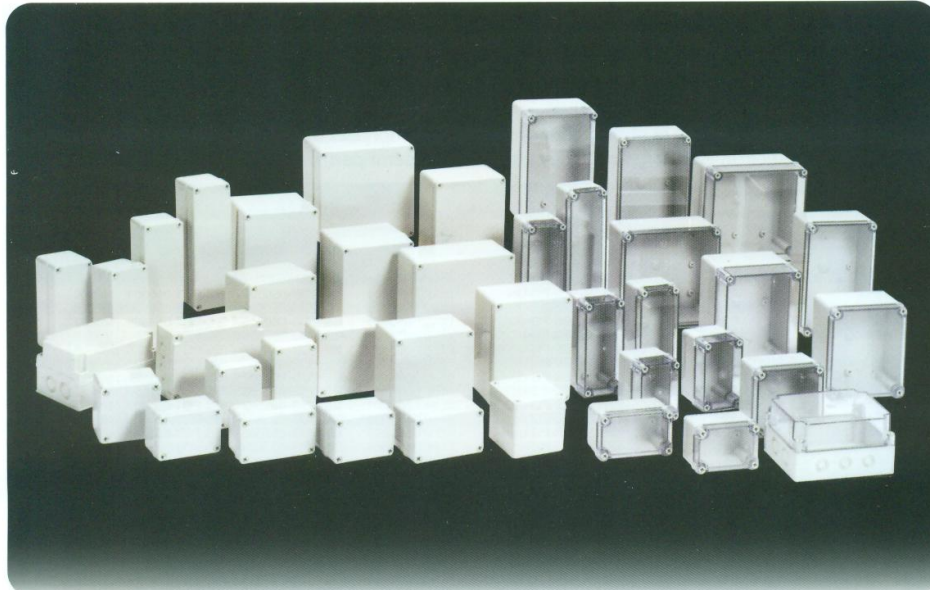


■Steel mounting plates (galvanization) ■Plastic mounting plates(ABS) ■Lock latch (K40) ■Lock (K20) ■Bracket (B50) ■Draw latch(M65) ■Hinge(H65) ■Plug(M22)

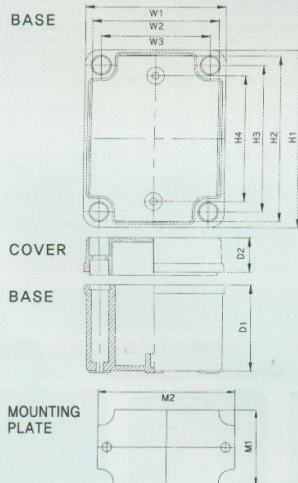


ES series IP66

Screw bolt opening-closing type



Dimension (allowable error $\pm 1\text{mm}$)



* The dimension of mounting plate is based on the plastic mounting plate and the dimension of a round bracket is steel's mounting plate.

Size	Division	W1	W2	W3	H1	H2	H3	H4	D1	D2	M1	M2
50 x 65 x 45		50	44	37	65	59	52	40	30	15	(52)	(38)
50 x 65 x 55		50	44	37	65	59	52	40	40	15	(52)	(38)
65 x 95 x 55		65	59	47	95	89	77	65	40	15	(50)	(80)
75 x 105 x 55		75	69	57	105	99	87	75	40	15	(60)	(90)
80 x 80 x 60		80	74	62	80	94	62	50	45	15	(65)	(65)
80 x 110 x 45		80	74	62	110	104	92	80	25	20	65	95
80 x 110 x 70		80	74	62	110	104	92	80	50	20	65	95
80 x 110 x 85		80	74	62	110	104	92	80	50	35	65	95
80 x 130 x 70		80	74	62	130	124	112	100	50	20	65	115
80 x 130 x 85		80	74	62	130	124	112	100	50	35	65	115
80 x 160 x 55		82	76	68	162	156	148	137	40	15	65	152
80 x 160 x 85		82	76	68	162	156	148	137	70	15	65	152
80 x 180 x 70		80	74	62	180	174	162	150	50	20	65	165
80 x 180 x 85		80	74	62	180	174	162	150	50	35	65	165
80 x 250 x 70		80	74	62	250	244	232	220	50	20	65	235
80 x 250 x 85		80	74	62	250	244	232	220	50	35	65	235
100 x 100 x 75		100	94	82	100	94	82	60	55	20	88	89
100 x 100 x 100		100	94	82	100	94	82	60	80	20	88	89
100 x 185 x 70		100	94	82	185	179	167	139	55	15	(88)	(174)
100 x 200 x 70		100	94	82	200	194	182	158	55	15	(88)	(189)
100 x 230 x 70		100	94	82	230	224	212	184	55	15	(88)	(219)
125 x 125 x 75		125	119	105	125	119	105	70	55	20	101	102
125 x 125 x 100		125	119	105	125	119	105	70	80	20	101	102
125 x 175 x 75		125	121	109	175	169	157	140	50	25	101	156
125 x 175 x 100		125	121	109	175	169	157	140	50	50	101	156
140 x 170 x 95		140	137	122	173	167	152	130	75	20	122	154
140 x 230 x 95		140	134	122	230	224	212	190	75	20	122	211
150 x 150 x 75		150	144	110	150	144	132	110	55	20	134	134
150 x 150 x 100		150	144	110	150	144	132	110	80	20	134	134
150 x 200 x 75		150	142	132	200	192	182	160	55	20	136	186
150 x 200 x 100		150	142	132	200	192	182	160	80	20	136	186
150 x 200 x 130		150	142	132	200	192	182	160	80	50	136	186
150 x 200 x 160		150	142	132	200	192	182	160	110	50	136	186
150 x 250 x 100		150	142	132	250	242	232	210	80	20	136	235
150 x 250 x 130		150	142	132	250	242	232	210	80	50	136	235
160 x 160 x 70		160	154	110	160	154	142	110	55	15	134	134
200 x 200 x 100		200	193	132	200	193	182	120	80	20	187	187
200 x 200 x 130		200	193	132	200	193	182	120	110	20	187	187
200 x 200 x 160		200	193	132	200	193	182	120	110	50	187	187

A special feature of ES series

1. In infection molding, fastening channel made as one with enclosure's body is superior in strength and us durable without crushing when you put the screw into channel.
2. Our enclosure's thickness is strengthened with laying emphasis on protection of electricity-electron components. They can be used semi-permanently.



ES series model and standardized list

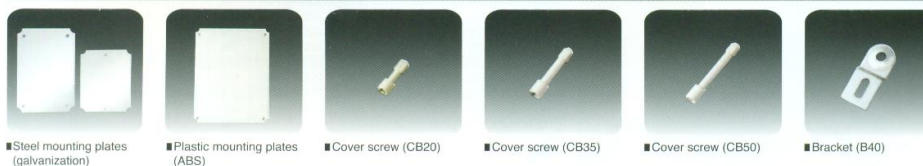
Size WxHxD (included cover)	Product model						Mounting plate	
	ABS		PC		POLYESTER		Steel 1.6mm	Plastic above 3mm
	gray cover	transparency cover	gray cover	transparency cover	gray cover	transparency cover		
50 x 65 x 45	ES-AG-050604	ES-AT-050604	ES-PG-050604	ES-PT-050604	ES-PCG-050604	ES-PCT-050604	M0506	
50 x 65 x 55	ES-AG-050605	ES-AT-050605	ES-PG-050605	ES-PT-050605	ES-PCG-050605	ES-PCT-050605	M0506	
65 x 95 x 55	ES-AG-060905	ES-AT-060905	ES-PG-060905	ES-PT-060905	ES-PCG-060905	ES-PCT-060905	M0609	
75 x 105 x 55	ES-AG-071005	ES-AT-071005	ES-PG-071005	ES-PT-071005	ES-PCG-071005	ES-PCT-071005	M0710	
80 x 80 x 60	ES-AG-080806	ES-AT-080806	ES-PG-080806	ES-PT-080806	ES-PCG-080806	ES-PCT-080806	M0808	
80 x 110 x 45	ES-AG-081104	ES-AT-081104	ES-PG-081104	ES-PT-081104	ES-PCG-081104	ES-PCT-081104	M0811	0811 PL
80 x 110 x 70	ES-AG-081107	ES-AT-081107	ES-PG-081107	ES-PT-081107	ES-PCG-081107	ES-PCT-081107	M0811	0811 PL
80 x 110 x 85	ES-AG-081108	ES-AT-081108	ES-PG-081108	ES-PT-081108	ES-PCG-081108	ES-PCT-081108	M0811	0811 PL
85 x 130 x 70	ES-AG-081307	ES-AT-081307	ES-PG-081307	ES-PT-081307	ES-PCG-081307	ES-PCT-081307	M0813	0813 PL
80 x 130 x 85	ES-AG-081308	ES-AT-081308	ES-PG-081308	ES-PT-081308	ES-PCG-081308	ES-PCT-081308	M0813	0813 PL
80 x 160 x 55	ES-AG-081605	ES-AT-081605	ES-PG-081605	ES-PT-081605	ES-PCG-081605	ES-PCT-081605	M0816	0816 PL
80 x 160 x 85	ES-AG-081608	ES-AT-081608	ES-PG-081608	ES-PT-081608	ES-PCG-081608	ES-PCT-081608	M0816	0816 PL
80 x 180 x 70	ES-AG-081807	ES-AT-081807	ES-PG-081807	ES-PT-081807	ES-PCG-081807	ES-PCT-081807	M0818	0818 PL
80 x 180 x 85	ES-AG-081808	ES-AT-081808	ES-PG-081808	ES-PT-081808	ES-PCG-081808	ES-PCT-081808	M0818	0818 PL
80 x 250 x 70	ES-AG-082507	ES-AT-082507	ES-PG-082507	ES-PT-082507	ES-PCG-082507	ES-PCT-082507	M0825	0825 PL
80 x 250 x 85	ES-AG-082508	ES-AT-082508	ES-PG-082508	ES-PT-082508	ES-PCG-082508	ES-PCT-082508	M0825	0825 PL
100 x 100 x 75	ES-AG-101007	ES-AT-101007	ES-PG-101007	ES-PT-101007	ES-PCG-101007	ES-PCT-101007	M1010	1010 PL
100 x 100 x 100	ES-AG-101010	ES-AT-101010	ES-PG-101010	ES-PT-101010	ES-PCG-101010	ES-PCT-101010	M1010	1010 PL
100 x 185 x 70	ES-AG-101807	ES-AT-101807	ES-PG-101807	ES-PT-101807	ES-PCG-101807	ES-PCT-101807	M1018	1018 PL
100 x 200 x 70	ES-AG-102007	ES-AT-102007	ES-PG-102007	ES-PT-102007	ES-PCG-102007	ES-PCT-102007	M1020	1020 PL
100 x 230 x 70	ES-AG-102307	ES-AT-102307	ES-PG-102307	ES-PT-102307	ES-PCG-102307	ES-PCT-102307	M1023	1023 PL
125 x 125 x 75	ES-AG-121207	ES-AT-121207	ES-PG-121207	ES-PT-121207	ES-PCG-121207	ES-PCT-121207	M1212	1212 PL
125 x 125 x 100	ES-AG-121210	ES-AT-121210	ES-PG-121210	ES-PT-121210	ES-PCG-121210	ES-PCT-121210	M1212	1212 PL
125 x 175 x 75	ES-AG-121707	ES-AT-121707	ES-PG-121707	ES-PT-121707	ES-PCG-121707	ES-PCT-121707	M1217	1217 PL
125 x 175 x 100	ES-AG-121710	ES-AT-121710	ES-PG-121710	ES-PT-121710	ES-PCG-121710	ES-PCT-121710	M1217	1217 PL
140 x 170 x 95	ES-AG-141709	ES-AT-141709	ES-PG-141709	ES-PT-141709	ES-PCG-141709	ES-PCT-141709	M1417	1417 PL
140 x 230 x 95	ES-AG-142309	ES-AT-142309	ES-PG-142309	ES-PT-142309	ES-PCG-142309	ES-PCT-142309	M1423	1423 PL
150 x 150 x 75	ES-AG-151507	ES-AT-151507	ES-PG-151507	ES-PT-151507	ES-PCG-151507	ES-PCT-151507	M1515	1515 PL
150 x 150 x 100	ES-AG-151510	ES-AT-151510	ES-PG-151510	ES-PT-151510	ES-PCG-151510	ES-PCT-151510	M1515	1515 PL
150 x 200 x 75	ES-AG-152007	ES-AT-152007	ES-PG-152007	ES-PT-152007	ES-PCG-152007	ES-PCT-152007	M1520	1520 PL
150 x 200 x 100	ES-AG-152010	ES-AT-152010	ES-PG-152010	ES-PT-152010	ES-PCG-152010	ES-PCT-152010	M1520	1520 PL
150 x 200 x 130	ES-AG-152013	ES-AT-152013	ES-PG-152013	ES-PT-152013	ES-PCG-152013	ES-PCT-152013	M1520	1520 PL
150 x 200 x 160	ES-AG-152016	ES-AT-152016	ES-PG-152016	ES-PT-152016	ES-PCG-152016	ES-PCT-152016	M1520	1520 PL
150 x 250 x 100	ES-AG-152510	ES-AT-152510	ES-PG-152510	ES-PT-152510	ES-PCG-152510	ES-PCT-152510	M1525	1525 PL
150 x 250 x 130	ES-AG-152513	ES-AT-152513	ES-PG-152513	ES-PT-152513	ES-PCG-152513	ES-PCT-152513	M1525	1525 PL
160 x 160 x 70	ES-AG-161607	ES-AT-161607	ES-PG-161607	ES-PT-161607	ES-PCG-161607	ES-PCT-161607	M1616	1616 PL
200 x 200 x 100	ES-AG-202010	ES-AT-202010	ES-PG-202010	ES-PT-202010	ES-PCG-202010	ES-PCT-202010	M2020	2020 PL
200 x 200 x 130	ES-AG-202013	ES-AT-202013	ES-PG-202013	ES-PT-202013	ES-PCG-202013	ES-PCT-202013	M2020	2020 PL
200 x 200 x 160	ES-AG-202016	ES-AT-202016	ES-PG-202016	ES-PT-202016	ES-PCG-202016	ES-PCT-202016	M2020	2020 PL

A G · 材質 Material : ABS · 顏色 Color : 灰色 Gray	P G · 材質 Material : AC · 顏色 Color : 灰色 Gray	P C G · 材質 Material : POLYESTER · 顏色 Color : 灰色 Gray
A T · 材質 Material : 蓋 Cover (PC) · 顏色 Color : 蓋 Cover (透明 Clear)	P T · 材質 Material : 蓋 Cover (PC) · 顏色 Color : 蓋 Cover (透明 Clear)	P C T · 材質 Material : POLYESTER · 顏色 Color : 蓋 Cover (透明 Clear)

溫度 Temperature	AG(ABS)	PG(PC/ABS)	PCG(PBT/PC)	Clear cover(Polycarbonate)
短時間 Short time	-40℃~+100℃	-40℃~+90℃	-40℃~+100℃	-40℃~+132℃
連續 Continuous	-40℃~+80℃	-40℃~+85℃	-40℃~+75℃	-40℃~+130℃

ABS:Acrylonitrile Butadiene Styrene (UL94-HB)	PC:PolyCarbonate (HB94-HB)	AC:ABS(30%)+PC(70%) (UL94-5VA)	Polyester:PBT+PC (UL94-5VA+UV(f1))
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Accessories for enclosures



■ Steel mounting plates
(galvanization)

■ Plastic mounting plates
(ABS)

■ Cover screw (CB20)

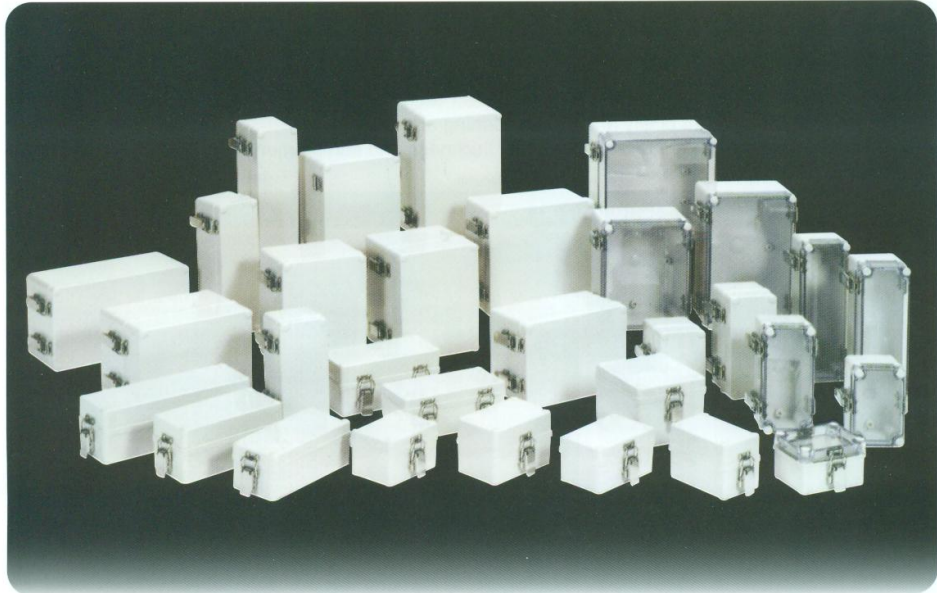
■ Cover screw (CB35)

■ Cover screw (CB50)

■ Bracket (B40)

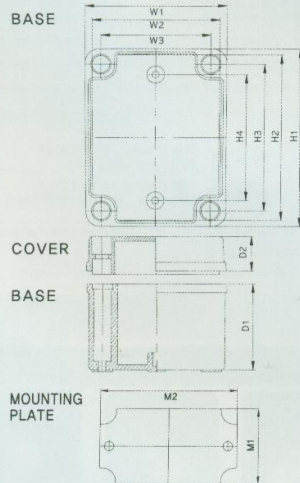
ES-H series IP66

Stainless-hinge, opening and closing type of stainless draw latch



* The dimension of mounting plate is based on the plastic mounting plate.

Dimension(allowable error ±1mm)



Division		W1	W2	W3	W4	H1	H2	H3	H4	D1	D2	M1	M2
Size													
80	x 110 x 70	80	74	62	0	110	104	92	80	50	20	64	94
110	x 80 x 70	110	104	92	80	80	74	62	80	50	20	64	94
80	x 110 x 85	80	74	62	0	110	104	92	80	50	35	64	94
110	x 80 x 85	110	104	92	80	80	74	62	80	50	35	64	94
80	x 130 x 70	80	74	62	0	130	124	112	100	50	20	65	115
130	x 80 x 70	130	124	112	100	80	74	62	100	50	20	65	115
80	x 130 x 85	80	74	62	0	130	124	112	100	50	35	65	115
130	x 80 x 85	130	124	112	100	80	74	62	150	50	35	65	115
80	x 180 x 70	80	74	62	0	180	174	162	150	50	20	65	165
180	x 80 x 70	180	174	162	150	80	74	62	150	50	20	65	165
80	x 180 x 85	80	74	62	0	180	174	162	150	50	35	65	165
180	x 80 x 85	180	174	162	150	80	74	62	150	50	35	65	165
80	x 250 x 70	80	74	62	0	250	244	232	220	50	20	65	235
250	x 80 x 70	250	244	232	220	80	74	62	220	50	20	65	235
80	x 250 x 85	80	74	62	0	250	244	232	220	50	35	65	235
250	x 80 x 85	250	244	232	220	80	74	62	220	50	35	65	235
100	x 100 x 75	100	94	82	0	100	94	82	60	55	20	82	82
100	x 100 x 100	100	94	82	0	100	94	82	60	80	20	82	82
125	x 125 x 75	125	119	105	0	125	119	105	70	55	20	107	107
125	x 125 x 100	125	119	105	0	125	119	105	70	80	20	107	107
125	x 175 x 75	127	121	109	0	175	169	157	140	50	25	113	161
175	x 125 x 75	175	169	157	140	127	121	109	140	50	25	113	161
125	x 175 x 100	127	121	109	0	175	169	157	140	50	50	113	161
175	x 125 x 100	175	169	157	140	127	121	109	140	50	50	113	161
140	x 170 x 95	143	137	122	0	173	167	152	130	75	20	126	155
170	x 140 x 95	173	167	152	130	143	137	122	130	75	20	126	155
140	x 230 x 95	140	134	122	0	230	224	212	190	75	20	122	212
230	x 140 x 95	230	224	212	190	140	134	122	190	75	25	122	212
150	x 150 x 75	150	144	110	0	150	144	132	110	55	20	123	123
150	x 150 x 100	150	144	110	0	150	144	132	110	80	20	123	123
150	x 200 x 75	150	142	132	0	200	192	182	160	55	20	129	179
200	x 150 x 75	200	192	182	160	150	142	132	160	55	20	129	179
150	x 200 x 100	150	142	132	0	200	192	182	160	80	20	129	179
200	x 150 x 100	200	192	182	160	150	142	132	160	80	20	129	179
150	x 200 x 130	150	142	132	0	200	192	182	160	80	50	129	179
200	x 150 x 130	200	192	182	160	150	142	132	160	80	50	129	179
150	x 200 x 160	150	142	132	0	200	192	182	160	110	50	129	179
200	x 150 x 160	200	192	182	160	150	142	132	160	110	50	129	179
150	x 250 x 100	150	142	132	0	250	242	232	210	80	20	129	224
250	x 150 x 100	250	242	232	210	150	142	132	210	80	20	129	224
150	x 250 x 130	150	142	132	0	250	242	232	210	80	50	129	224
250	x 150 x 130	250	242	232	210	150	142	132	210	80	50	129	224
200	x 200 x 100	200	193	132	0	200	193	182	120	80	20	179	179
200	x 200 x 130	200	193	132	0	200	193	182	120	110	20	179	179
200	x 200 x 160	200	193	132	0	200	193	182	120	110	50	179	179

A special feature of ES-H series

1. Draw latch and hinge made of stainless steel hardly frequency in opening and closing.
2. In taking goods out of a works our enclosures fitted latch and hinge exactly secure a complete airtight ability and useful opening and closing.
3. They can use for a long time by strengthening thickness and complementing makeup.



ES-H series model and standardized list

Size WxHxD (included cover)	Product model						Mounting plate	
	ABS		PC		POLYESTER		Steel	Plastic
	gray cover	transparency cover	gray cover	transparency cover	gray cover	transparency cover	1.6mm	above 3mm
80 x 110 x 70	ES-AGH-081107	ES-ATH-081107	ES-PGH-081107	ES-PTH-081107	ES-PCGH-081107	ES-PCTH-081107	M0811	0811 PL
110 x 80 x 70	ES-AGH-110807	ES-ATH-110807	ES-PGH-110807	ES-PTH-110807	ES-PCGH-110807	ES-PCTH-110807	M1108	1108 PL
80 x 110 x 85	ES-AGH-081108	ES-ATH-081108	ES-PGH-081108	ES-PTH-081108	ES-PCGH-081108	ES-PCTH-081108	M0811	0811 PL
110 x 80 x 85	ES-AGH-110808	ES-ATH-110808	ES-PGH-110808	ES-PTH-110808	ES-PCGH-110808	ES-PCTH-110808	M1108	1108 PL
80 x 130 x 70	ES-AGH-081307	ES-ATH-081307	ES-PGH-081307	ES-PTH-081307	ES-PCGH-081307	ES-PCTH-081307	M0813	0813 PL
130 x 80 x 70	ES-AGH-130807	ES-ATH-130807	ES-PGH-130807	ES-PTH-130807	ES-PCGH-130807	ES-PCTH-130807	M1308	1308 PL
80 x 130 x 85	ES-AGH-081308	ES-ATH-081308	ES-PGH-081308	ES-PTH-081308	ES-PCGH-081308	ES-PCTH-081308	M0813	0813 PL
130 x 80 x 85	ES-AGH-130808	ES-ATH-130808	ES-PGH-130808	ES-PTH-130808	ES-PCGH-130808	ES-PCTH-130808	M1308	1308 PL
80 x 180 x 70	ES-AGH-081807	ES-ATH-081807	ES-PGH-081807	ES-PTH-081807	ES-PCGH-081807	ES-PCTH-081807	M0818	0818 PL
180 x 80 x 70	ES-AGH-180807	ES-ATH-180807	ES-PGH-180807	ES-PTH-180807	ES-PCGH-180807	ES-PCTH-180807	M1808	1808 PL
80 x 180 x 85	ES-AGH-081808	ES-ATH-081808	ES-PGH-081808	ES-PTH-081808	ES-PCGH-081808	ES-PCTH-081808	M0818	0818 PL
180 x 80 x 85	ES-AGH-180808	ES-ATH-180808	ES-PGH-180808	ES-PTH-180808	ES-PCGH-180808	ES-PCTH-180808	M1808	1808 PL
80 x 250 x 70	ES-AGH-082507	ES-ATH-082507	ES-PGH-082507	ES-PTH-082507	ES-PCGH-082507	ES-PCTH-082507	M0825	0825 PL
250 x 80 x 70	ES-AGH-250807	ES-ATH-250807	ES-PGH-250807	ES-PTH-250807	ES-PCGH-250807	ES-PCTH-250807	M2508	2508 PL
80 x 250 x 85	ES-AGH-082508	ES-ATH-082508	ES-PGH-082508	ES-PTH-082508	ES-PCGH-082508	ES-PCTH-082508	M0825	0825 PL
250 x 80 x 85	ES-AGH-250808	ES-ATH-250808	ES-PGH-250808	ES-PTH-250808	ES-PCGH-250808	ES-PCTH-250808	M2508	2508 PL
100 x 100 x 75	ES-AGH-101007	ES-ATH-101007	ES-PGH-101007	ES-PTH-101007	ES-PCGH-101007	ES-PCTH-101007	M1010	1010 PL
100 x 100 x 100	ES-AGH-101010	ES-ATH-101010	ES-PGH-101010	ES-PTH-101010	ES-PCGH-101010	ES-PCTH-101010	M1010	1010 PL
125 x 125 x 75	ES-AGH-121207	ES-ATH-121207	ES-PGH-121207	ES-PTH-121207	ES-PCGH-121207	ES-PCTH-121207	M1212	1212 PL
125 x 125 x 100	ES-AGH-121210	ES-ATH-121210	ES-PGH-121210	ES-PTH-121210	ES-PCGH-121210	ES-PCTH-121210	M1212	1212 PL
125 x 175 x 75	ES-AGH-121707	ES-ATH-121707	ES-PGH-121707	ES-PTH-121707	ES-PCGH-121707	ES-PCTH-121707	M1217	1217 PL
175 x 125 x 75	ES-AGH-171207	ES-ATH-171207	ES-PGH-171207	ES-PTH-171207	ES-PCGH-171207	ES-PCTH-171207	M1712	1712 PL
125 x 175 x 100	ES-AGH-121710	ES-ATH-121710	ES-PGH-121710	ES-PTH-121710	ES-PCGH-121710	ES-PCTH-121710	M1217	1217 PL
175 x 125 x 100	ES-AGH-171210	ES-ATH-171210	ES-PGH-171210	ES-PTH-171210	ES-PCGH-171210	ES-PCTH-171210	M1712	1712 PL
140 x 170 x 95	ES-AGH-141709	ES-ATH-141709	ES-PGH-141709	ES-PTH-141709	ES-PCGH-141709	ES-PCTH-141709	M1417	1417 PL
170 x 140 x 95	ES-AGH-171409	ES-ATH-171409	ES-PGH-171409	ES-PTH-171409	ES-PCGH-171409	ES-PCTH-171409	M1714	1714 PL
140 x 230 x 95	ES-AGH-142309	ES-ATH-142309	ES-PGH-142309	ES-PTH-142309	ES-PCGH-142309	ES-PCTH-142309	M1423	1423 PL
230 x 140 x 95	ES-AGH-231409	ES-ATH-231409	ES-PGH-231409	ES-PTH-231409	ES-PCGH-231409	ES-PCTH-231409	M2314	2314 PL
150 x 150 x 75	ES-AGH-151507	ES-ATH-151507	ES-PGH-151507	ES-PTH-151507	ES-PCGH-151507	ES-PCTH-151507	M1515	1515 PL
150 x 150 x 100	ES-AGH-151510	ES-ATH-151510	ES-PGH-151510	ES-PTH-151510	ES-PCGH-151510	ES-PCTH-151510	M1515	1515 PL
150 x 200 x 75	ES-AGH-152007	ES-ATH-152007	ES-PGH-152007	ES-PTH-152007	ES-PCGH-152007	ES-PCTH-152007	M1520	1520 PL
200 x 150 x 75	ES-AGH-201507	ES-ATH-201507	ES-PGH-201507	ES-PTH-201507	ES-PCGH-201507	ES-PCTH-201507	M2015	2015 PL
150 x 200 x 100	ES-AGH-152010	ES-ATH-152010	ES-PGH-152010	ES-PTH-152010	ES-PCGH-152010	ES-PCTH-152010	M1520	1520 PL
200 x 150 x 100	ES-AGH-201510	ES-ATH-201510	ES-PGH-201510	ES-PTH-201510	ES-PCGH-201510	ES-PCTH-201510	M2015	2015 PL
150 x 200 x 130	ES-AGH-152013	ES-ATH-152013	ES-PGH-152013	ES-PTH-152013	ES-PCGH-152013	ES-PCTH-152013	M1520	1520 PL
200 x 150 x 130	ES-AGH-201513	ES-ATH-201513	ES-PGH-201513	ES-PTH-201513	ES-PCGH-201513	ES-PCTH-201513	M2015	2015 PL
150 x 250 x 100	ES-AGH-152510	ES-ATH-152510	ES-PGH-152510	ES-PTH-152510	ES-PCGH-152510	ES-PCTH-152510	M1525	1525 PL
250 x 150 x 100	ES-AGH-251510	ES-ATH-251510	ES-PGH-251510	ES-PTH-251510	ES-PCGH-251510	ES-PCTH-251510	M2515	2515 PL
150 x 250 x 130	ES-AGH-152513	ES-ATH-152513	ES-PGH-152513	ES-PTH-152513	ES-PCGH-152513	ES-PCTH-152513	M1525	1525 PL
250 x 150 x 130	ES-AGH-251513	ES-ATH-251513	ES-PGH-251513	ES-PTH-251513	ES-PCGH-251513	ES-PCTH-251513	M2515	2515 PL
200 x 200 x 100	ES-AGH-202010	ES-ATH-202010	ES-PGH-202010	ES-PTH-202010	ES-PCGH-202010	ES-PCTH-202010	M2020	2020 PL
200 x 200 x 130	ES-AGH-202013	ES-ATH-202013	ES-PGH-202013	ES-PTH-202013	ES-PCGH-202013	ES-PCTH-202013	M2020	2020 PL
200 x 200 x 160	ES-AGH-202016	ES-ATH-202016	ES-PGH-202016	ES-PTH-202016	ES-PCGH-202016	ES-PCTH-202016	M2020	2020 PL

A G Material: ABS
Color: Gray

P G Material: AC
Color: Gray

P C G Material: POLYESTER
Color: Gray

A T Material: PC
Color: Clear

P T Material: PC
Color: Clear

P C T Material: POLYESTER
Color: Clear

Temperature	AG(ABS)	PG(PC/ABS)	PCG(PBT/PC)	Clear cover(Polycarbonate)
Short time	-40°C~+100°C	-40°C~+90°C	-40°C~+100°C	-40°C~+132°C
Continuous	-40°C~+80°C	-40°C~+85°C	-40°C~+75°C	-40°C~+130°C

ABS:Acrylonitrile Butadiene Styrene
(UL94-HB)

PC:Polycarbonate
(UL94-HB)

AC:ABS(30%)+PC(70%)
(UL94-5VA)

Polyester:PBT+PC
(UL94-5VA+UV(F1))

Accessories for enclosures



Steel mounting plates (galvanization)



Plastic mounting plates (ABS)



Lock latch (K40)



Lock (K20)



Draw latch(M55)

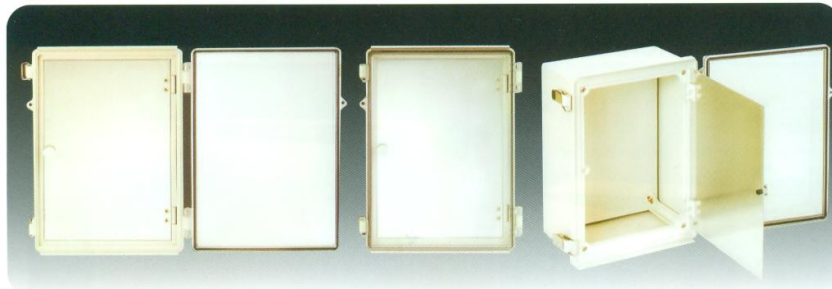


Hinge(H55)

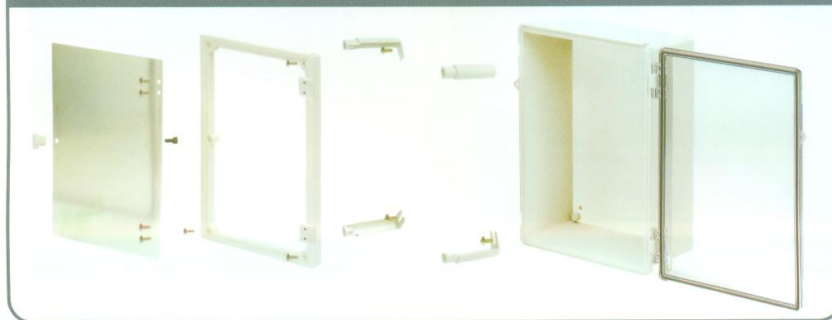


Plug(M11)

Internal door device



Assembly of Dual door kits



Product characteristic

1. Dual door is easy to open or close as it will be assembled with handle and hinge type.
2. It is very strong as it is fixed with 4 supports and it has good external appearance.

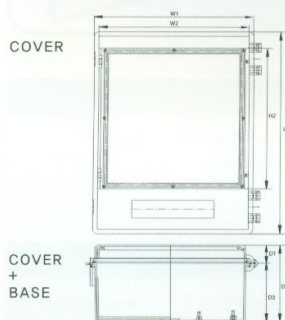
Model and size

Swing Frame applicable model		Product model		Swing Frame applicable model		Product model	
Size	Model	Dual door (Frame, support, hinge, handle included)	Dual door mounting plate (Aluminium)	Size	Model	Dual door (Frame, support, hinge, handle included)	Dual door mounting plate (Aluminium)
WidthxLengthxHeight (mm)				WidthxLengthxHeight (mm)			
200 x 300 x 130	EN-□□-203013	FP203013	P2030	300 x 400 x 180	EN-□□P-304018	FP304018	P3040
200 x 300 x 150	EN-□□-203015	FP203015	P2030	350 x 450 x 160	EN-□□P-354516	FP354516	P3545
200 x 300 x 180	EN-□□-203018	FP203018	P2030	350 x 450 x 200	EN-□□P-354520	FP354520	P3545
250 x 350 x 150	EN-□□-253515	FP253515	P2535	400 x 500 x 160	EN-□□P-405016	FP405016	P4050
250 x 350 x 180	EN-□□-253518	FP253518	P2535	400 x 500 x 200	EN-□□H-405020	FP405020	P4050
280 x 280 x 130	EN-□□-282813	FP282813	P2828	400 x 500 x 200	EN-□□P-405020	FP405020	P4050
280 x 280 x 130	EN-□□-283813	FP283813	P2838	400 x 600 x 180	EN-□□P-406018	FP406018	P4060
300 x 300 x 150	EN-□□-303015	FP303015	P3030	400 x 600 x 230	EN-□□H-406023	FP406023	P4060
300 x 300 x 180	EN-□□-303018	FP303018	P3030	530 x 630 x 185	EN-□□P-506018	FP506018	P5060
300 x 400 x 150	EN-□□-304015	FP304015	P3040	530 x 630 x 255	EN-□□P-506025	FP506025	P5060

EU Series IP66 Dual door enclosure



Dimension

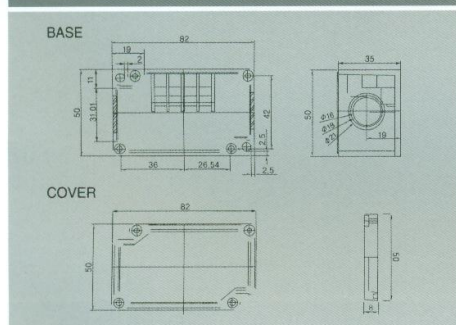


Product characteristics

1. It is designed to prevent the penetration of rain or dust perfectly double as roof is protruded from top and bottom of the base.
2. It is easy to separate cover and base so that user can attach or detach them for processing and printing.
3. It is possible to reduce Product price and assembly cost from integrated cover and transparent window
4. Insert hinge into the product and hinge connecting pin and important parts of draw latch are made of stainless steel so that it is very strong and corrosion resistant.

Model and size

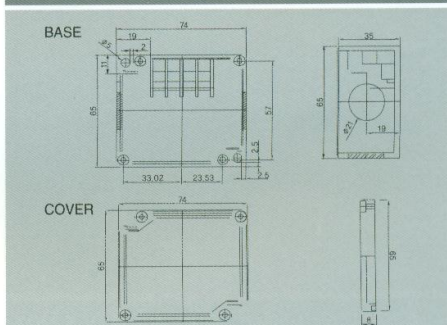
Model and size(Cover included)		Product model			Mounting Plate		Dual door	
Width X Length X Height (mm)	Width X Length X Height (inch)	ABS	PC / ABS	PC	Model No.	Size (mm)	Model No.	Size (mm)
250 x 350 x 160	9.84 x 13.77 x 6.29	EU-AGD-253516	EU-PGD-253516	EU-CGD-253516	2535P	2535S	D2535	220 x 220
250 x 350 x 190	9.84 x 13.77 x 7.48	EU-AGD-253519	EU-PGD-253519	EU-CGD-253519	2535P	2535S	D2535	220 x 220
350 x 450 x 130	13.77 x 17.71 x 5.11	EU-AGD-354513	EU-PGD-354513	EU-CGD-354513	3545P	3545S	D3545	314 x 313
350 x 450 x 170	13.77 x 17.71 x 6.69	EU-AGD-354517	EU-PGD-354517	EU-CGD-354517	3545P	3545S	D3545	314 x 313
350 x 450 x 210	13.77 x 17.71 x 8.26	EU-AGD-354521	EU-PGD-354521	EU-CGD-354521	3545P	3545S	D3545	314 x 313

Sort-4PH,4P16H,4P1618H,4P1821H,4P21H**Dimension** (allowable error $\pm 1\text{mm}$)**A special feature of Terminal Block Box**

1. Our product is material of resistance to flame.
2. 4P products and some boxes have knock-outs of 21mm on both surfaces and others have holes. The latter type is ready to use without additional processing.

Model and standardized list

Size WxLxHxHole (included cover)	Product model		
	ABS Blue gray	ABS Gray	PC Gray
50 x 82 x 43 x 21 Knock-out	TB-AB-4PH	TB-AG-4PH	TB-PG-4PH
50 x 82 x 43 x 16 Hole	TB-AB-4P16H	TB-AG-4P16H	TB-PG-4P16H
50 x 82 x 43 x 16,18 Hole	TB-AB-4P1618H	TB-AG-4P1618H	TB-PG-4P1618H
50 x 82 x 43 x 18 Hole	TB-AB-4P18H	TB-AG-4P18H	TB-PG-4P18H
50 x 82 x 43 x 18,21 Hole	TB-AB-4P1821H	TB-AG-4P1821H	TB-PG-4P1821H
50 x 82 x 43 x 21 Hole	TB-AB-4P21H	TB-AG-4P21H	TB-PG-4P21H

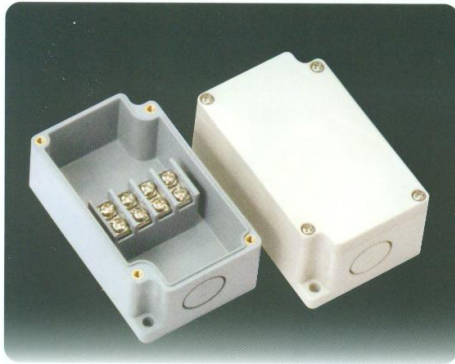
Sort-4PT**Dimension** (allowable error $\pm 1\text{mm}$)**A special feature of Terminal Block Box**

1. Our product is material of resistance to flame.
2. 4P products with knock-outs of 21mm on both surfaces and available to use in T type.

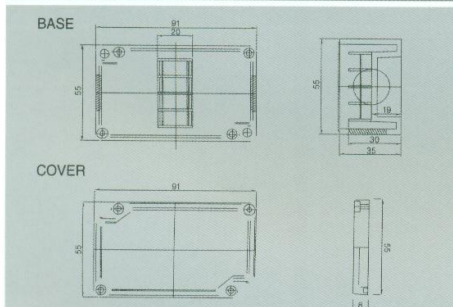
Model and standardized list

Size WxLxHxHole (included cover)	Product model		
	ABS Blue gray	ABS Gray	PC Gray
65 x 74 x 43 x 21 Knock-out	TB-AB-4PT	TB-AG-4PT	TB-PG-4PT
Rated voltage		AC 400V	
Rated current		15A	
Applicable wire		0.75mm² ~ 1.5mm²	
Operating temperature		AB/AG: -40 ~ +85 °C PG: -40 ~ +120 °C	
Fire resistance		AB/AG: UL94-V-0 PG: UL94-5VA	
Protectiv structure		IP66 & 67 / IK08	

Sort-4PT



Dimension (allowable error ± 1 mm)



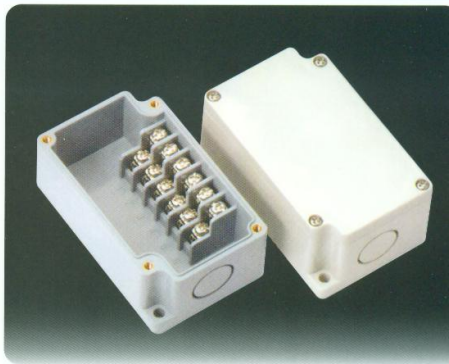
A special feature of Terminal Block Box

1. Our product is material of resistance to flame.
2. 4P products and our boxes have knock-outs of 21mm on both surfaces.

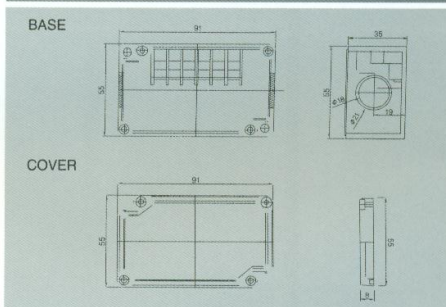
Model and standardized list

Size	Product model		
	ABS	ABS	PC
WxLxHxKnock-out (included cover)	Blue gray	Gray	Gray
55 x 91 x 43 x 21 Knock-out	TB-AB-4P	TB-AG-4P	TB-PG-4P
Rated voltage	AC 400V		
Rated current	15A		
Applicable wire	0.75mm² ~ 1.5mm²		
Operating temperature	AB/AG: -40 ~ +85°C PG: -40 ~ +120°C		
Fire resistance	AB/AG: UL94-V-0 PG: UL94-5VA		
Protectiv structure	IP66 & 67 / IK08		

Sort-6PH,6P18H,6P1821H,6P21H



Dimension (allowable error ± 1 mm)



A special feature of Terminal Block Box

1. Our product is material of resistance to flame.
2. 6P products and some boxes have knock-outs of 21mm on both surfaces and others have holes. The latter type is ready to use without additional processing.

Model and standardized list

Size	Product model		
	ABS	ABS	PC
WxLxHxHole (included cover)	Blue gray	Gray	Gray
55 x 91 x 43 x 21 Knock-out	TB-AB-6PH	TB-AG-6PH	TB-PG-6PH
55 x 91 x 43 x 18 Hole	TB-AB-6P18H	TB-AG-6P18H	TB-PG-6P18H
55 x 91 x 43 x 18,21 Hole	TB-AB-6P1821H	TB-AG-6P1821H	TB-PG-6P1821H
55 x 91 x 43 x 21 Hole	TB-AB-6P21H	TB-AG-6P21H	TB-PG-6P21H

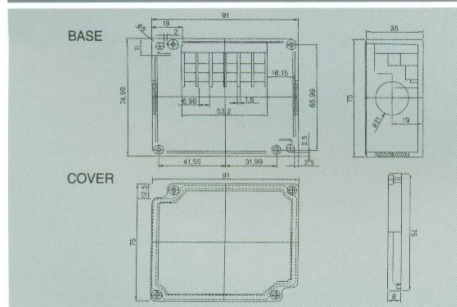
Terminal Block Box IP66



SORT-6PT



Dimension (allowable error $\pm 1\text{mm}$)



A special feature of Terminal Block Box

1. Our product is material of resistance to flame.
2. 6P products with knock-outs of 21mm on both surfaces and available to use in T type.

Model and standardized list

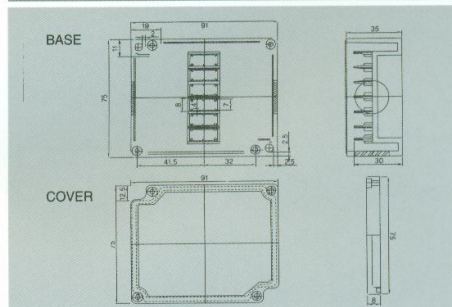
Size	Product model		
WxLxHxKnock-out (included cover)	ABS	ABS	PC
	Blue gray	Gray	Gray
75 x 91 x 43 x 21 Knock-out	TB-AB-6PT	TB-AG-6PT	TB-PG-6PT

Rated voltage	AC 400V
Rated current	15A
Applicable wire	0.75mm ² ~ 1.5mm ²
Operating temperature	AB/AG: -40 ~ +85°C PG: -40 ~ +120°C
Fire resistance	AB/AG: UL94-V-0 PG: UL94-5VA
Protectiv structure	IP66 & 67 / IK08

SORT-6P



Dimension (allowable error $\pm 1\text{mm}$)



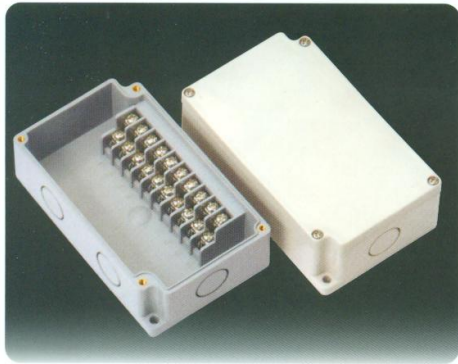
A special feature of Terminal Block Box

1. Our product is material of resistance to flame.
2. 6P products and our boxes have knock-outs of 21mm on both surfaces.

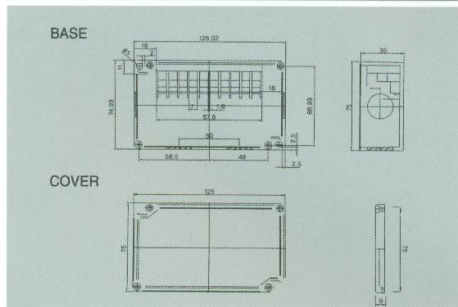
Model and standardized list

Size	Product model		
WxLxHxKnock-out (included cover)	ABS	ABS	PC
	Blue gray	Gray	Gray
75 x 91 x 43 x 21 Knock-out	TB-AB-6P	TB-AG-6P	TB-PG-6P

SORT-10P



Dimension (allowable error ± 1 mm)



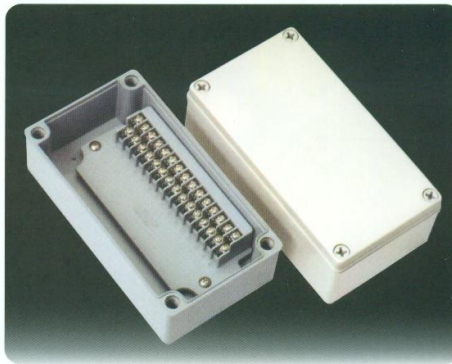
A special feature of Terminal Block Box

1. Our product is material of resistance to flame.
2. 10P products with 4 knock-outs of 21mm on three surfaces and available to use in T type.

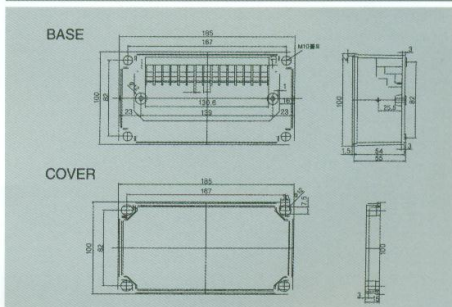
Model and standardized list

Size	Product model		
WxLxHxKnock-out (included cover)	ABS	ABS	PC
	Blue gray	Gray	Gray
75 x 125 x 43 x 21Knock-out	TB-AB-10P	TB-AG-10P	TB-PG-10P

SORT-15PT



Dimension (allowable error ± 1 mm)



A special feature of Terminal Block Box

1. Our product is material of resistance to flame.
2. Our products are 15P and available to use in T type.
3. Easy to work because boxes are separable from terminal block

Model and standardized list

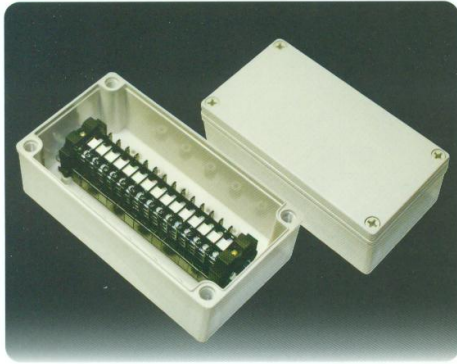
Size	Product model		
WxLxH (included cover)	ABS	ABS	PC
	Blue gray	Gray	Gray
100 x 185 x 70	TB-AB-15PT	TB-AG-15PT	TB-PG-15PT

Rated voltage	AC 400V
Rated current	15A
Applicable wire	0.75mm ² ~ 1.5mm ²
Operating temperature	AB/AG: -40 ~ +85°C PG: -40 ~ +120°C
Fire resistance	AB/AG: UL94-V-0 PG: UL94-5VA
Protectiv structure	IP66 & 67 / IK08

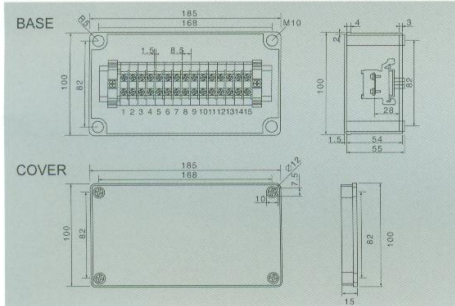
Terminal Block Box IP66



SORT-15P



Dimension (allowable error ±1mm)



A special feature of Terminal Block Box

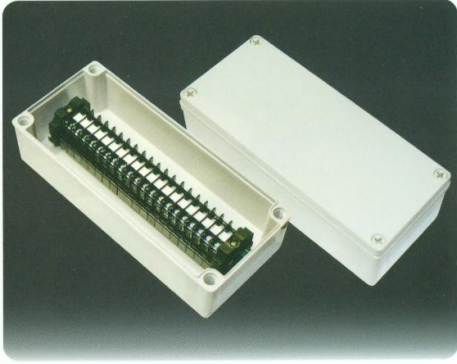
1. Our product is material of resistance to flame.
2. 15P Products.
3. Easy to work because boxes are separable from terminal block.

Model and standardized list

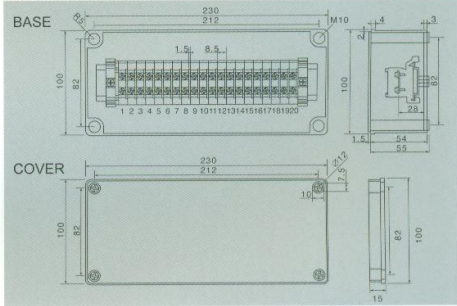
Size WxLxH (included cover)	Product model		
	ABS Blue gray	ABS Gray	PC Gray
100 x 185 x 70	TB-AB-15P	TB-AG-15P	TB-PG-15P

Rated voltage	AC 500V
Rated current	10A
Applicable wire	0.75mm ² ~ 1.5mm ²
Operating temperature	AB/AG: -40 ~ +85 °C PG: -40 ~ +120 °C
Fire resistance	AB/AG: UL94-V-0 PG: UL94-5VA
Protectiv structure	IP66 & 67 / IK08

SORT-20PT



Dimension (allowable error ±1mm)



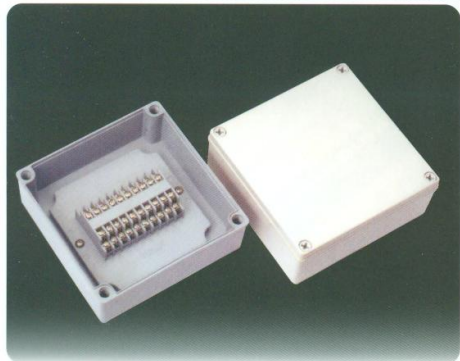
A special feature of Terminal Block Box

1. Our product is material of resistance to flame.
2. Our products are 20P and available to use in T type.
3. Easy to work because boxes are separable from terminal block.

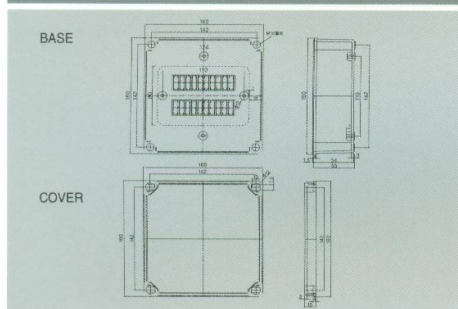
Model and standardized list

Size WxLxH (included cover)	Product model		
	ABS Blue gray	ABS Gray	PC Gray
100 x 230 x 70	TB-AB-20PT	TB-AG-20PT	TB-PG-20PT

SORT-20PA



Dimension (allowable error ±1mm)



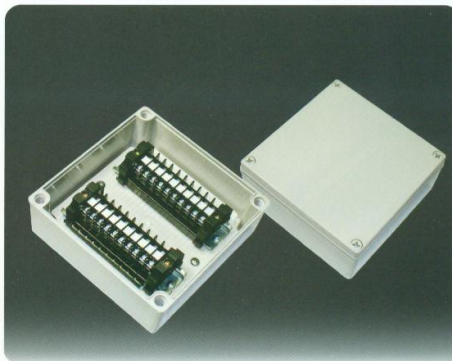
A special feature of Terminal Block Box

1. Our product is material of resistance to flame.
2. 20P products with A-type structure, which enables convenient wiring.
3. Easy to work because boxes are separable from terminal block.

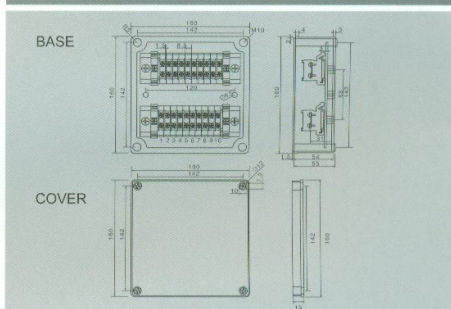
Model and standardized list

Size WxLxH (included cover)	Product model		
	ABS Blue gray	ABS Gray	PC Gray
160 x 160 x 70	TB-AB-20PA	TB-AG-20PA	TB-PG-20PA

SORT-20P



Dimension (allowable error ±1mm)



A special feature of Terminal Block Box

1. Our product is material of resistance to flame.
2. 20P products.
3. Easy to work because boxes are separable from terminal block.

Model and standardized list

Size WxLxH (included cover)	Product model		
	ABS Blue gray	ABS Gray	PC Gray
160 x 160 x 70	TB-AB-20P	TB-AG-20P	TB-PG-20P

Rated voltage	AC 500V
Rated current	10A
Applicable wire	0.75mm ² ~ 1.5mm ²
Operating temperature	AB/AG: -40 ~ +85 °C PG: -40 ~ +120 °C
Fire resistance	AB/AG: UL94-V-0 PG: UL94-5VA
Protectiv structure	IP66 & 67 / IK08

Accessories

Draw latch

- Material-SUS304
- M75-A series of medium and large box
- M65-A series of medium box
- M55-A series of small box



M75



M65



M55

Hinge

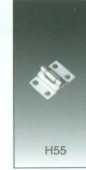
- Material-SUS304
- H75-A series of medium and large size
- H65-A series of medium size
- H55-A series of small size



H75



H65



H55

Lock

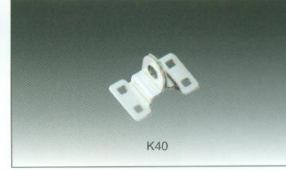
- Material-SUS304
- All the products of hinge type



K20

Lock latch

- Material-SUS304
- All the products of hinge type



K40

Steel mounting plate

- Material-Steel (galvanization)
- All products of plastic box and aluminum box



Plastic mounting plate

- Material-ABS
- All the products of plastic boxes



Cover screw

- Material-Nylon Glass
- A series of screw type small and medium size



CB20



CB35



CB50



CB28



CB28

Plug

- Material-ABS
- M22-A series of medium size
- M11-A series of small size



M22



M11

Bracket

- Material-SUS304
- B60-A series of medium and large size
- B50-A series of medium size
- B40-A series of small size



B60



B50



B40

Steel cabinet bracket

- Material-Steel (galvanization)
- All the products of steel enclosure



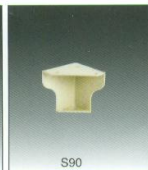
SB

Steel cabinet stand

- Material-Steel (powder plating)
- All the products of steel enclosure



S200



S90

Fastening lug

- Material-Steel (galvanization)
- All the products of steel enclosure



D30L



D25L



D30S



D25S



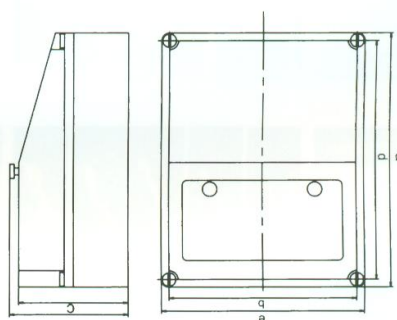
EP-PG-282212

配電箱體

1. 採用聚脂材料
2. 透明的操作窗
3. 9位模數元件安裝空間
4. 塑料制箱蓋螺絲

選出線螺栓孔尺寸由客戶定

ABS		PC	
EP-AG-282212		EP-PG-282212	
Dimension 外型尺寸	a	285	
	b	222	
	c	120	
	d	268	
	e	205	
	f		

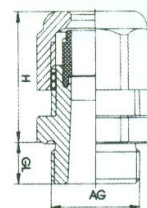


使用範例 Example



尼龍電纜防水接頭 Plastic Cable Gland

1. 材 料：尼龍66 密封件材料：丁腈橡膠。
2. 顏 色：灰白色(RAL 7035)，黑色(RAL 9005)。
3. 防護等級：在規定的適用電纜內，並使用合適的O型密封圈，防護等級可達到IP67。
4. 溫度範圍：靜態：-40°C~100°C，短時間可達到120°C。
動態：-20°C~80°C，短時間可達到100°C。
5. 阻燃等級：V2(UL94)，不含鹵素、磷、鎘、通過ROHS測試，耐UV，通過抗老化測試。



1. Material: Polyamide66, Sealing: NBR
2. Color: Grey white (RAL 7035), Black (RAL 9005)
3. Protection degree: Using suitable O-sealings within the cable range, its protection degree can reach IP68
4. Temperature Range: Stat.: Min-40 °C, Max100°C, Short-term120°C
Dyn.: Min-20°C, Max80°C, Short-term100°C
5. Properties: V2(UL94), free of halogen, phosphor and cadmium, passed RoHS UV-resistance, ageing-resistance certificates

加長型 PG螺紋 PG Thread 單位：mm

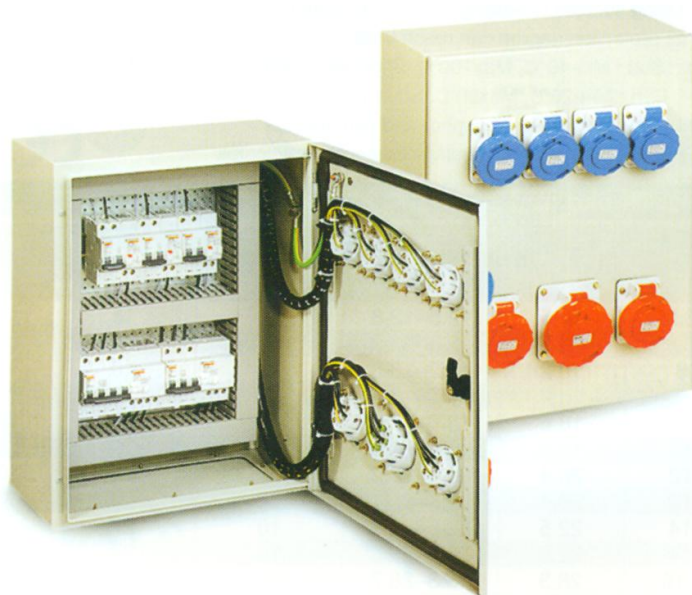
型號 Model	適用電纜 Gable Range Ø	螺紋外徑 Thread O.D. AG	機扳口徑 Panel Mounting Hole	螺紋長度 Thread Length GL	扳手徑 Spanner Size A & F	包裝 Std. Pkg pcs
PG-7	3~6.5	12.5	12.5~12.8	8	15	100
PG-7L	3~6.5	12.5	12.5~12.8	15	15	100
PG-9	4~8	15.2	15.2~15.5	8	19	100
PG-9L	4~8	15.2	15.2~15.5	15	19	100
PG-11	5~10	18.6	18.6~18.9	8	22	100
PG-11L	5~10	18.6	18.6~18.9	15	22	100
PG-13.5	6~12	20.4	20.4~20.7	9	24	100
PG-13.5L	6~12	20.4	20.4~20.7	14	24	100
PG-16	8~14	22.5	22.5~22.8	10	27	50
PG-16L	8~14	22.5	22.5~22.8	15	27	50
PG-21	13~18	28.3	28.3~28.7	11	33	50
PG-21L	13~18	28.3	28.3~28.7	15	33	50
PG-29	18~25	37	37~37.4	11	42	25
PG-29L	18~25	37	37~37.4	15	42	25
PG-36	22~32	47	47~47.4	13	52	10
PG-42	30~38	54	54~54.4	14	60	10
PG-48	37~44	59.3	59.3~59.7	15	65	5

CUSTOMIZATION



A flexible manufacturing system enables us to customise the cabinets according to the customer's requirements in terms of paint, colour, dimensions, machining and mounting of accessories and/or equipment.

一個靈活的製造系統，使我們能夠依照客戶之需求，如尺寸、顏色、塗料與附件來製作高品質開關箱。



At e-tan we want to help you do your job. To make things easier for you, we can adapt and assemble all the accessories and components you need in our enclosures under request (ask for special conditions).

在e-tan，我們幫您做您的工作。為了您，讓事情更簡單，我們可以在您的需求之下，裝配您所需的配件與零件於開關箱裡。



WALL MOUNTING STEEL ENCLOSURES SYSTEM IP-65 (IEC-60529)

Metal enclosures made from a continuous length of sheet steel double folded at the front, with back welded to the frame, Both externally and internally protected with polyester epoxy resin grey paint to RAL-7035 texturized.



- welded studs on the back for direct fixing of mounting plate or other accessories.
- perforated door reinforcement profiles allowing fixing of equipment.
- concealed and easily removable hinges allowing over 120° door opening.
- foamed-in polyurethane gasket and front rain gutter ensures high degree of protection.
- accessories not included as standard supply.

開關箱詳細規格

references and details of enclosures

external dimensions (mm) 外部尺寸			enclosures 開關箱				metal 底板型號	dimensions 底板尺寸 (A)x(B) (mm)
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	weight* (kg) 重量		
250	200	150	SP-252015	1	0	3.68	MM-2520	165x150
300	200	150	SP-302015	1	A	4.29	MM-3015	265x165
300	200	200	SP-302020	1	A	4.84	MM-3020	265x165
300	250	150	SP-302515	1	A	5.11	MM-3025	265x200
300	250	200	SP-302520	1	A	5.71	MM-3025	265x200
300	300	150	SP-303015	1	B	5.93	MM-3030	265x250
300	300	200	SP-303020	1	B	6.59	MM-3030	265x250
350	250	180	SP-352518	1	A	7.20	MM-3525	315x200
400	300	150	SP-403015	1	B	7.58	MM-4030	360x250

*Weight of enclosures with plain door. **Enclosures with three point locking system.

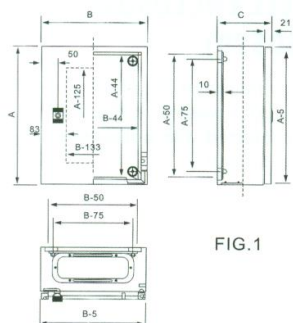


FIG.1

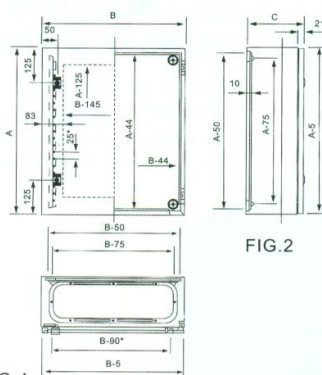


FIG.2

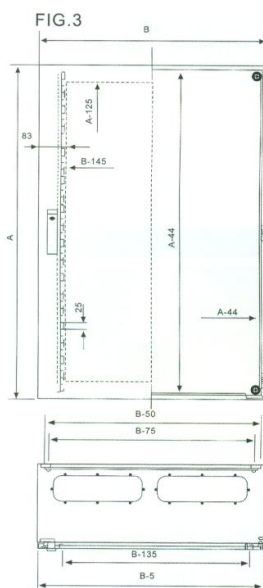


FIG.3

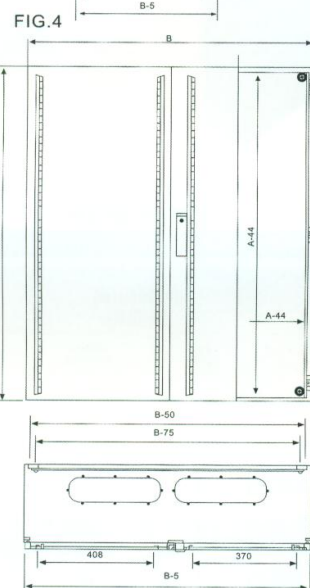
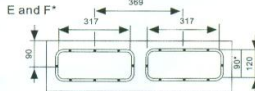
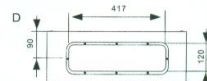
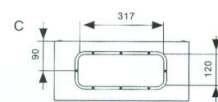
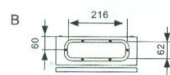
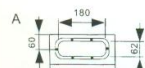
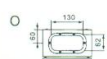
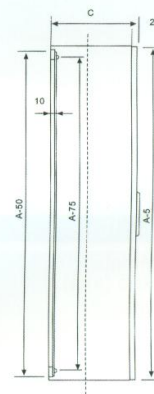


FIG.4



*All glazed door enclosures type KT are without door reinforcement profiles.

**for 1200mm. width

references and details of enclosures

external dimensions (mm) 外部尺寸			enclosures 開關箱				 metal 底板型號	dimensions 底板尺寸 (A)×(B) (mm)
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	weight* (kg) 重量		
400	300	200	SP-403020	1	B	8.35	MM-4030	360x250
400	300	250	SP-403025	1	B	9.12	MM-4030	360x250
400	400	150	SP-404015	1	B	9.67	MM-4040	360x350
400	400	200	SP-404020	1	C	10.55	MM-4040	360x350
400	400	250	SP-404025	1	C	11.43	MM-4040	360x350
500	400	150	SP-504015	2	B	11.76	MM-5040	440x340
500	400	200	SP-504020	2	C	12.75	MM-5040	440x340
500	400	250	SP-504025	2	C	13.74	MM-5040	440x340
500	500	150	SP-505015	2	B	14.29	MM-5050	440x440
500	500	200	SP-505020	2	C	15.39	MM-5050	440x440
500	500	250	SP-505025	2	D	16.49	MM-5050	440x440
600	400	150	SP-604015	2	B	13.85	MM-6040	540x340
600	400	200	SP-604020	2	C	14.95	MM-6040	540x340
600	400	250	SP-604025	2	C	16.05	MM-6040	540x340
600	500	150	SP-605015	2	B	19.22	MM-6050	540x440
600	500	200	SP-605020	2	D	20.6	MM-6050	540x440
600	500	250	SP-605025	2	D	21.98	MM-6050	540x440
600	600	200	SP-606020	2	D	24.12	MM-6060	540x540
600	600	250	SP-606025	2	D	25.62	MM-6060	540x540
600	600	300	SP-606030	2	D	27.13	MM-6060	540x540
700	500	200	SP-705020	2	D	23.61	MM-7050	640x440
700	500	250	SP-705025	2	D	25.12	MM-7050	640x440
700	500	300	SP-705030	2	D	26.63	MM-7050	640x440

*Weight of enclosures with plain door. **Enclosures with three point locking system.

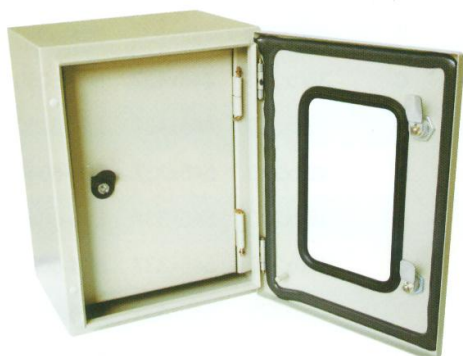
references and details of enclosures

external dimensions (mm) 外部尺寸			enclosures 開關箱				 metal 底板型號	dimensions 底板尺寸 (A)×(B) (mm)
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	weight* (kg) 重量		
700	600	200	SP-706020	2	D	27.63	MM-7060	640x540
700	600	250	SP-706025	2	D	29.26	MM-7060	640x540
700	600	300	SP-706030	2	D	30.90	MM-7060	640x540
800	600	200	SP-806020	2	D	35.04	MM-8060	740x540
800	600	250	SP-806025	2	D	37.02	MM-8060	740x540
800	600	300	SP-806030	2	D	39.00	MM-8060	740x540
800	800	200	SP-808020	2	E	45.22	MM-8080	740x740
800	800	250	SP-808025	2	E	47.48	MM-8080	740x740
800	800	300	SP-808030	2	E	49.74	MM-8080	740x740
1000	600	250	SP-1006025	2	D	50.24	MM-106	940x540
1000	600	300	SP-1006030	2	D	52.75	MM-106	940x540
1000	800	250	SP-1008025	2	E	64.37	MM-108	940x740
1000	800	300	SP-1008030	2	E	67.20	MM-108	940x740
1000	800	400	SP-1008040	2	E	60.29	MM-108	940x740
1000	1000	300	SP-10010030	4/3	E	81.64	MM-1010	940x940
1000	1000	400	SP-10010040	4/3	E	72.22	MM-1010	940x940
1200	800	300	SP-1208030	3	E	79.13	MM-128	1140x540
1200	800	400	SP-1208040	3	E	70.34	MM-128	1140x540
1200	1000	300	SP-12010030	4	E	96.08	MM-1210	1140x940
1200	1000	400	SP-12010040	4	E	84.15	MM-1210	1140x940
1400	800	300	SP-1408030	3	E	104.72	MM-148	1340x740
1400	800	400	SP-1408040	3	E	112.66	MM-148	1340x740

*Weight of enclosures with plain door. **Enclosures with three point locking system.



WALL MOUNTING STEEL ENCLOSURES With transparent security glass door SYSTEM IP-65 (IEC-60529)



- Series SP_KT with transparent security glass door.
- Adjustable internal door can be opened angle of 120°.
- Concealed and easily removable hinges allowing over 120° door opening.

開關箱詳細規格

references and details of enclosures

external dimensions (mm) 外部尺寸			Transparent enclosures 透明視窗開關箱					metal 底板型號
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	transparent dimensions 透明視窗尺寸 (mm)	internal door dimensions 內門尺寸 (mm)	
400	300	150	SP-403015KT	1	B	280x170	345x237	MM-4030
400	300	200	SP-403020KT	1	B	280x170	345x237	MM-4030
400	300	250	SP-403025KT	1	B	280x170	345x237	MM-4030
400	400	150	SP-404015KT	1	B	280x270	345x337	MM-4040
400	400	200	SP-404020KT	1	C	280x270	345x337	MM-4040
400	400	250	SP-404025KT	1	C	280x270	345x337	MM-4040
500	400	150	SP-504015KT	2	B	380x270	445x337	MM-5040
500	400	200	SP-504020KT	2	C	380x270	445x337	MM-5040
500	400	250	SP-504025KT	2	C	380x270	445x337	MM-5040

*Weight of enclosures with plain door. **Enclosures with three point locking system.

external dimensions (mm) 外部尺寸			Transparent enclosures 透明視窗開關箱					metal 底板型號
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	transparent dimensions 透明視窗尺寸 (mm)	internal door dimensions 內門尺寸 (mm)	
500	500	150	SP-505015KT	2	B	380X370	445x437	MM-5050
500	500	200	SP-505020KT	2	C	380x370	445x437	MM-5050
500	500	250	SP-505025KT	2	D	380x370	445x437	MM-5050
600	400	150	SP-604015KT	2	B	480x270	545x337	MM-6040
600	400	200	SP-604020KT	2	C	480x270	545x337	MM-6040
600	400	250	SP-604025KT	2	C	480x270	545x337	MM-6040
600	500	150	SP-605015KT	2	B	480x370	545x437	MM-6050
600	500	200	SP-605020KT	2	D	480x370	545x437	MM-6050
600	500	250	SP-605025KT	2	D	480x370	545x437	MM-6050
600	600	200	SP-606020KT	2	D	480x470	545x537	MM-6060
600	600	250	SP-606025KT	2	D	480x470	545x537	MM-6060
600	600	300	SP-606030KT	2	D	480x470	545x537	MM-6060
700	500	200	SP-705020KT	2	D	580x370	645x437	MM-7050
700	500	250	SP-705025KT	2	D	580x370	645x437	MM-7050
700	500	300	SP-705030KT	2	D	580x370	645x437	MM-7050
700	600	200	SP-706020KT	2	D	580x470	645x537	MM-7060
700	600	250	SP-706025KT	2	D	580x470	645x537	MM-7060
700	600	300	SP-706030KT	2	D	580x470	645x537	MM-7060
800	600	200	SP-806020KT	2	D	680x470	745x537	MM-8060
800	600	250	SP-806025KT	2	D	680x470	745x537	MM-8060
800	600	300	SP-806030KT	2	D	680x470	745x537	MM-8060
800	800	200	SP-808020KT	2	E	680x670	745x737	MM-8080
800	800	250	SP-808025KT	2	E	680x670	745x737	MM-8080

*Weight of enclosures with plain door. **Enclosures with three point locking system.

開關箱詳細規格

references and details of enclosures

external dimensions (mm) 外部尺寸			Transparent enclosures 透明視窗開關箱					metal 底板型號
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	transparent dimensions 透明視窗尺寸 (mm)	internal door dimensions 內門尺寸 (mm)	
800	800	300	SP-808030KT	2	E	680x670	745x737	MM-8080
1000	600	250	SP-1006025KT	2	D	880x470	945x537	MM-106
1000	600	300	SP-1006030KT	2	D	880x470	945x537	MM-106
1000	800	250	SP-1008025KT	2	E	880x670	945x737	MM-108
1000	800	300	SP-1008030KT	2	E	880x670	945x737	MM-108
1000	800	400	SP-1008040KT	2	E	880x670	945x737	MM-108
1000	1000	300	SP-10010030KT	4/3	E	880x870	945x937	MM-1010
1000	1000	400	SP-10010040KT	4/3	E	880x870	945x937	MM-1010
1200	800	300	SP-1208030KT	3	E	1080x470	1145x737	MM-128
1200	800	400	SP-1208040KT	3	E	1080x470	1145x737	MM-128
1200	1000	300	SP-12010030KT	4	E	1080x870	1145x937	MM-1210
1200	1000	400	SP-12010040KT	4	E	1080x870	1145x937	MM-1210
1400	800	300	SP-1408030KT	3	E	1280x670	1345x737	MM-148
1400	800	400	SP-1408040KT	3	E	1280x670	1345x737	MM-148

*Weight of enclosures with plain door. **Enclosures with three point locking system.



Spray paint / 噴漆
RAL7035

C E R T I F I C A T E
of Conformity



Registration No.: AK 50099251 0001

Report No.: 11005046 002

Holder: Coca Enterprise Co., Ltd.
No.78, Junfu 17th Rd.,
Beitun District, Taichung 40642
Taiwan, R.O.C.

Product: Materialkasten
(Enclosure)

Identification: SP-X1X2X3 series
(X1= 25,30,40,50,60,70,80,100 or 120; X2= 20,25,30,40,50,
60,80,100 or 120; X3= 15,20,25,30 or 40)

Tested acc. to: IEC 60529:2001

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the standards mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

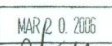
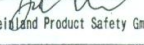
Cologne, 09.01.2007



Certification Body

Dipl.-Ing. B. Scheirer

TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln

Prüfbericht - Nr.: 11005046 001		Seite 1 von 1 Page 1 of 1	
Auftraggeber: Client:		CoCa Enterprise Co. Ltd. No. 112, Jih Hsing Street, Taichung, 40354, Taiwan, R.O.C.	
Gegenstand der Prüfung: Test Item:		Enclosure	
Bezeichnung: Identification:	SP series (see page 2 of report)	Serien-Nr.: Serial No.:	Engineering sample
Wareneingangs-Nr.: Receipt No.:	Samples taken by client after test, no deposit in warehouse	Eingangsdatum: Date of Receipt:	26/10/2005 28/01/2006
Prüfart: Testing Location:	TÜV Rheinland Taiwan Ltd., Taichung Lab. 10F, No. 219, Min Chuan Road, Taichung 403, Taiwan, R.O.C.		
Prüfgrundlage: Test Specification:	IEC 60529: 2001		
Prüfresultat: Test Result:	Der vorstehend beschriebene Prüfgegenstand wurde geprüft und entspricht oben genannter Prüfgrundlage. The a. m. test item passed.		
Prüflaboratorium: Testing Laboratory:	TÜV Rheinland Taiwan Ltd., Taichung Lab.		
zusammengestellt/ compiled by:		kontrolliert/ reviewed by:	
07.03.2006	Jordan Wu	09.03.2006	Meng-Chieh Lin
Datum Date	Name Name	Datum Date	Name Name
			
	Unterschrift Signature		Unterschrift Signature
Sonstiges/ Other Aspects: This test report consists of : 3 pages to IP65 test acc. to IEC 60529		Geprüft und Genehmigt (Reviewed and approved)   TÜV Rheinland Product Safety GmbH	
Abkürzungen: ok / P = entspricht Prüfgrundlage fail / F = entspricht nicht Prüfgrundlage n.a. / N = nicht anwendbar		Abbreviations: ok / P = passed fail / F = failed n.a. / N = not applicable	
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.			



WALL MOUNTING STAINLESS STEEL ENCLOSURES SYSTEM IP-65 (IEC-60529)

The stainless steel e-tan enclosures are specially suitable for corrosive environments and installations where hygiene is essential. Also in chemical and food industries, etc.



- Stainless #304, thickness 1.2mm
- Concealed and easily removable hinges allowing over 120° door opening.

開關箱詳細規格

references and details of enclosures

external dimensions (mm) 外部尺寸			stainless steel enclosures 不鏽鋼開關箱				 zinc-coated mounting plate 鍍鋅底板型號	dimensions 底板尺寸 (A) x (B) (mm)
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	weight* (kg) 重量		
250	200	150	ST-252015	1	0	3.59	MZ-2520	165x150
300	200	150	ST-302015	1	A	4.16	MZ-3015	265x165
300	200	200	ST-302020	1	A	4.79	MZ-3020	265x165
300	250	150	ST-302515	1	A	4.91	MZ-3025	265x200
300	250	200	ST-302520	1	A	5.61	MZ-3025	265x200
300	300	150	ST-303015	1	B	5.67	MZ-3030	265x250
300	300	200	ST-303020	1	B	6.43	MZ-3030	265x250
350	250	180	ST-352518	1	A	4.95	MZ-3525	315x200
400	300	150	ST-403015	1	B	7.18	MZ-4030	360x250

*Weight of enclosures with plain door. **Enclosures with three point locking system.

開關箱詳細規格

references and details of enclosures

external dimensions (mm) 外部尺寸			stainless steel enclosures 不鏽鋼開關箱				 zinc-coated mounting plate 鍍鋅底板型號	dimensions 底板尺寸 (A)×(B) (mm)
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	weight* (kg) 重量		
400	300	200	ST-403020	1	B	8.06	MZ-4030	360x250
400	300	250	ST-403025	1	B	8.95	MZ-4030	360x250
400	400	150	ST-404015	1	B	9.07	MZ-4040	360x350
400	400	200	ST-404020	1	C	10.58	MZ-4040	360x350
400	400	250	ST-404025	1	C	11.09	MZ-4040	360x350
500	400	150	ST-504015	2	B	10.96	MZ-5040	440x340
500	400	200	ST-504020	2	C	12.10	MZ-5040	440x340
500	400	250	ST-504025	2	C	13.23	MZ-5040	440x340
500	500	150	ST-505015	2	B	13.23	MZ-5050	440x440
500	500	200	ST-505020	2	C	14.49	MZ-5050	440x440
500	500	250	ST-505025	2	D	15.75	MZ-5050	440x440
600	400	150	ST-604015	2	B	12.85	MZ-6040	540x340
600	400	200	ST-604020	2	C	14.11	MZ-6040	540x340
600	400	250	ST-604025	2	C	15.37	MZ-6040	540x340
600	500	150	ST-605015	2	B	17.71	MZ-6050	540x440
600	500	200	ST-605020	2	D	19.30	MZ-6050	540x440
600	500	250	ST-605025	2	D	20.88	MZ-6050	540x440
600	600	200	ST-606020	2	D	22.46	MZ-6060	540x540
600	600	250	ST-606025	2	D	24.19	MZ-6060	540x540
600	600	300	ST-606030	2	D	25.92	MZ-6060	540x540
700	500	200	ST-705020	2	D	22.03	MZ-7050	640x440
700	500	250	ST-705025	2	D	23.76	MZ-7050	640x440
700	500	300	ST-705030	2	D	25.49	MZ-7050	640x440

*Weight of enclosures with plain door. **Enclosures with three point locking system.

references and details of enclosures

external dimensions (mm) 外部尺寸			stainless steel enclosures 不銹鋼開關箱				 zinc-coated mounting plate 鍍鋅底板型號	dimensions 底板尺寸 (A)×(B) (mm)
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	weight* (kg) 重量		
700	600	200	ST-706020	2	D	25.63	MZ-7060	640x540
700	600	250	SPT-06025	2	D	27.50	MZ-7060	640x540
700	600	300	SPT-06030	2	D	29.38	MZ-7060	640x540
800	600	200	ST-806020	2	D	32.40	MZ-8060	740x540
800	600	250	ST-806025	2	D	34.67	MZ-8060	740x540
800	600	300	ST-806030	2	D	36.94	MZ-8060	740x540
800	800	200	ST-808020	2	E	41.47	MZ-8080	740x740
800	800	250	ST-808025	2	E	44.06	MZ-8080	740x740
800	800	300	ST-808030	2	E	46.66	MZ-8080	740x740
1000	600	250	ST-1006025	2	D	46.8	MZ-106	940x540
1000	600	300	ST-1006030	2	D	49.68	MZ-106	940x540
1000	800	250	ST-1008025	2	E	59.40	MZ-108	940x740
1000	800	300	ST-1008030	2	E	62.64	MZ-108	940x740
1000	800	400	ST-1008040	2	E	69.12	MZ-108	940x740
1000	1000	300	ST-10010030	4/3	E	75.60	MZ-1010	940x940
1000	1000	400	ST-10010040	4/3	E	82.80	MZ-1010	940x940
1200	800	300	ST-1208030	3	E	73.44	MZ-128	1140x540
1200	800	400	ST-1208040	3	E	80.64	MZ-128	1140x540
1200	1000	300	ST-12010030	4	E	88.56	MZ-1210	1140x940
1200	1000	400	ST-12010040	4	E	96.48	MZ-1210	1140x940

*Weight of enclosures with plain door. **Enclosures with three point locking system.



WALL MOUNTING STAINLESS STEEL ENCLOSURES

With transparent security glass door SYSTEM IP-65 (IEC-60529)



- Series ST_KT with transparent security glass door.
- Adjustable internal door can be opened angle of 120°.
- Concealed and easily removable hinges allowing over 120° door opening.

開關箱詳細規格

references and details of enclosures

external dimensions (mm) 外部尺寸			Transparent stainless steel enclosures 透明視窗不鏽鋼開關箱					zinc-coated mounting plate 鍍鋅底板型號
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	transparent dimensions 透明視窗尺寸 (mm)	internal door dimensions 內門尺寸 (mm)	
400	300	150	ST-403015KT	1	B	280x170	345x237	MZ-4030
400	300	200	ST-403020KT	1	B	280x170	345x237	MZ-4030
400	300	250	ST-403025KT	1	B	280x170	345x237	MZ-4040
400	400	150	ST-404015KT	1	B	280x270	345x337	MZ-4040
400	400	200	ST-404020KT	1	C	280x270	345x337	MZ-4040
400	400	250	ST-404025KT	1	C	280x270	345x337	MZ-5040
500	400	150	ST-504015KT	2	B	380x270	445x337	MZ-5040
500	400	200	ST-504020KT	2	C	380x270	445x337	MZ-5040
500	400	250	ST-504025KT	2	C	380x270	445x337	MZ-5050

*Weight of enclosures with plain door. **Enclosures with three point locking system.

references and details of enclosures

external dimensions (mm) 外部尺寸			Transparent stainless steel enclosures 透明視窗不鏽鋼開關箱					 zinc-coated mounting plate 鍍鋅底板型號
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	transparent dimensions 透明視窗尺寸 (mm)	internal door dimensions 內門尺寸 (mm)	
500	500	150	ST-505015KT	2	B	380x370	445x437	MZ-5050
500	500	200	ST-505020KT	2	C	380x370	445x437	MZ-5050
500	500	250	ST-505025KT	2	D	380x370	445x437	MZ-6040
600	400	150	ST-604015KT	2	B	480x270	545x337	MZ-6040
600	400	200	ST-604020KT	2	C	480x270	545x337	MZ-6040
600	400	250	ST-604025KT	2	C	480x270	545x337	MZ-6050
600	500	150	ST-605015KT	2	B	480x370	545x437	MZ-6050
600	500	200	ST-605020KT	2	D	480x370	545x437	MZ-6050
600	500	250	ST-605025KT	2	D	480x370	545x437	MZ-6060
600	600	200	ST-606020KT	2	D	480x470	545x537	MZ-6060
600	600	250	ST-606025KT	2	D	480x470	545x537	MZ-6060
600	600	300	ST-606030KT	2	D	480x470	545x537	MZ-7050
700	500	200	ST-705020KT	2	D	580x370	645x437	MZ-7050
700	500	250	ST-705025KT	2	D	580x370	645x437	MZ-7050
700	500	300	ST-705030KT	2	D	580x370	645x437	MZ-7060
700	600	200	ST-706020KT	2	D	580x470	645x537	MZ-7060
700	600	250	ST-706025KT	2	D	580x470	645x537	MZ-7060
700	600	300	ST-706030KT	2	D	580x470	645x537	MZ-8060
800	600	200	ST-806020KT	2	D	680x470	745x537	MZ-8060
800	600	250	ST-806025KT	2	D	680x470	745x537	MZ-8060
800	600	300	ST-806030KT	2	D	680x470	745x537	MZ-8080
800	800	200	ST-808020KT	2	E	680x670	745x737	MZ-8080
800	800	250	ST-808025KT	2	E	680x670	745x737	MZ-8080

*Weight of enclosures with plain door. **Enclosures with three point locking system.

references and details of enclosures

external dimensions (mm) 外部尺寸			Transparent stainless steel enclosures 透明視窗不鏽鋼開關箱					 zinc-coated mounting plate 鍍鋅底板型號
height (A) 高度	width (B) 寬度	depth (C) 深度	reference 型號	fig. 圖號	flange opening type 底部開孔形式	transparent dimensions 透明視窗尺寸 (mm)	internal door dimensions 內門尺寸 (mm)	
800	800	300	ST-808030KT	2	E	680x670	745x737	MZ-106
1000	600	250	ST-1006025KT	2	D	880x470	945x537	MZ-106
1000	600	300	ST-1006030KT	2	D	880x470	945x537	MZ-108
1000	800	250	ST-1008025KT	2	E	880x670	945x737	MZ-108
1000	800	300	ST-1008030KT	2	E	880x670	945x737	MZ-108
1000	800	400	ST-1008040KT	2	E	880x670	945x737	MZ-1010
1000	1000	300	ST-10010030KT	4/3	E	880x870	945x937	MZ-1010
1000	1000	400	ST-10010040KT	4/3	E	880x870	945x937	MZ-128
1200	800	300	ST-1208030KT	3	E	1080x470	1145x737	MZ-128
1200	800	400	ST-1208040KT	3	E	1080x470	1145x737	MZ-1210
1200	1000	300	ST-12010030KT	4	E	1080x870	1145x937	MZ-1210
1200	1000	400	ST-12010040KT	4	E	1080x870	1145x937	MZ-148

*Weight of enclosures with plain door. **Enclosures with three point locking system.

CERTIFICATE
of Conformity



Registration No.: AK 50102615 0001

Report No.: 11009283 001

Holder: Coca Enterprise Co., Ltd.
No.78, Junfu 17th Rd.,
Beitun District, Taichung 40642
Taiwan, R.O.C.

Product: Materialkasten
(Enclosure)

Identification: ST-252015, ST-302015, ST-302515, ST-302520, ST-303015
ST-303020, ST-304020, ST-403015, ST-403020, ST-404020
ST-406025, ST-406030, ST-504015, ST-504020, ST-504025
ST-505025, ST-604015, ST-604020, ST-604025, ST-605015
ST-605020, ST-605025, ST-606020, ST-606025, ST-606030

Tested acc. to: IEC 60529:2001

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the standards mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Cologne, 13.03.2007



Certification Body

Dipl.-Ing. B. Scheirer

TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln

C E R T I F I C A T E
of Conformity



Registration No.: AK 50102616 0001

Report No.: 11009283 001

Holder: Coca Enterprise Co., Ltd.
No.78, Junfu 17th Rd.,
Beitun District, Taichung 40642
Taiwan, R.O.C.

Product: Materialkasten
(Enclosure)

Identification: ST-608030, ST-705020, ST-705025, ST-806020, ST-806025
ST-806030, ST-806040, ST-808020, ST-808030, ST-8010030
ST-1006025, ST-1006030, ST-1008025, ST-1008030
ST-1008040, ST-10010030, ST-10012030, ST-1208030
ST-1208040, ST-12010030, ST-12010040

Tested acc. to: IEC 60529:2001

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the standards mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Cologne, 13.03.2007



Certification Body

Dipl.-Ing. B. Scheirer

TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln



TÜV Rheinland Group

Produkte
Products

Prüfbericht - Nr.: 11009283 001		Seite 1 von 1																	
<i>Test Report No.:</i>		<i>Page 1 of 1</i>																	
Auftraggeber:	Coca Enterprise Co. Ltd.																		
Client:	No. 78, Junfu 17th RD., Beitun District, Taichung, 40642, Taiwan, R.O.C.																		
Gegenstand der Prüfung:	Enclosure																		
Test item:																			
Bezeichnung:	ST series (see page 2 of report)	Serien-Nr.:	--																
Identification:		Serial No.:																	
Wareneingangs-Nr.:	TCH17663	Eingangsdatum:	Jan.10.2007																
Receipt No.:		Date of receipt:																	
Prüfart:	TÜV Rheinland Taiwan Ltd., Taichung Laboratory																		
Testing location:	10F, No. 219, Min Chuan Rd., Taichung 403, Taiwan R.O.C.																		
Prüfgrundlage:	IEC 60529: 2001																		
Test specification:																			
Prüfresultat:	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).																		
Test Result:	The test item passed the test specification(s).																		
Prüflaboratorium:	TÜV Rheinland Taiwan Ltd., Taichung Laboratory																		
Testing Laboratory:	10F, No. 219, Min Chuan Rd., Taichung 403, Taiwan R.O.C.																		
geprüft/ tested by:	kontrolliert/ reviewed by:																		
<i>Mar. 14, 2007</i>	<i>Ken Lee</i>	<i>Mar. 13, 2007</i>	<i>Steffen Primdahl</i>																
<i>Ken Lee</i>	Project Engineer	<i>Steffen Primdahl</i>	Project Manager																
Datum	Name/Stellung	Datum	Name/Stellung																
Date	Name/Position	Date	Name/Position																
Unterschrift	Unterschrift	Unterschrift	Unterschrift																
Signature	Signature	Signature	Signature																
Sonstiges/ Other Aspects:																			
This report consists of this cover page and 3 pages of IP 65 test report.																			
<table border="0"> <tr> <td>Abkürzungen:</td> <td>P(ass) = entspricht Prüfgrundlage</td> <td>Abbreviations:</td> <td>P(ass) = passed</td> </tr> <tr> <td>F(ail) = entspricht nicht Prüfgrundlage</td> <td></td> <td>F(ail) = failed</td> <td></td> </tr> <tr> <td>N/A = nicht anwendbar</td> <td></td> <td>N/A = not applicable</td> <td></td> </tr> <tr> <td>N/T = nicht getestet</td> <td></td> <td>N/T = not tested</td> <td></td> </tr> </table>				Abkürzungen:	P(ass) = entspricht Prüfgrundlage	Abbreviations:	P(ass) = passed	F(ail) = entspricht nicht Prüfgrundlage		F(ail) = failed		N/A = nicht anwendbar		N/A = not applicable		N/T = nicht getestet		N/T = not tested	
Abkürzungen:	P(ass) = entspricht Prüfgrundlage	Abbreviations:	P(ass) = passed																
F(ail) = entspricht nicht Prüfgrundlage		F(ail) = failed																	
N/A = nicht anwendbar		N/A = not applicable																	
N/T = nicht getestet		N/T = not tested																	
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.																			

TS 框架式通用控制櫃 TS universal frame enclosures



■特點介紹 Technical features

1. 箱門離地25mm。
2. 2.5mm厚的安裝板，兩邊有20mm寬的U形彎邊，使得安裝板強度更大，也便於搬運。
3. 箱底三塊電纜導入蓋板，可以相互替換，移動方便，易于導入電纜，易于並孔進線。
4. 箱門上有接地螺絲。
5. 承重鉸鏈安裝容易，換櫃門也容易，門可打開130°。
6. 塑料滑引器可利用塑料滑引器通過導軌從正面將安裝板推入箱內。
7. 堅固的長方形框架不但可以加強門的強度，還可以用來固定安裝電器元件(配合門安裝橫條使用)。
8. 背板能很容易地安裝，用螺絲固定；還可換裝箱門。
9. EMKA1225鎖，上，中，下三點鎖緊櫃門。
10. 密封圈：聚氨基甲酸酯密封膠條，確保防護等級。
11. 箱邊與密封圈配合防止水和灰塵落入櫃內。
12. (單門)左右互換開門設計，方便使用。
13. 標準模數化安裝孔設計，方便安裝。
14. 內燈，方便安裝和檢測(自選件)。
15. 文件袋，方便現場工作(自選件)。
16. 安裝梁，不使用安裝板同樣可以進行櫃內安裝(自選件)。
17. 風機及過濾網，保證櫃內通風，防護等級IP54(自選件)。
18. 底座，拆卸、安裝都很方便(自選件)。
19. 雙安裝板，安裝容量大(自選件)。
20. 門安裝條，方便安裝。
21. 櫃體全框架側板、前後門和頂板、底板均可取下，能夠適應各種要求，方便安裝檢修。

■Technical features

1. ground clearance of doors 25mm
2. mounting plate 2.5mm thick. with 20mm wide U-hem bending for strength enhancement and transport
3. 3 cable lead-in cover plates at the bottom. They are exchangeable and easy to move and lead in
4. earthing screws
5. bearing hinge which is easy for installation and door changing. door opening angle:130°
6. plastic glider for mounting plate assembly through the slide rail
7. stable rectangular frame for strengthening the front door also for electric component fitting(matching the door installation bar)
8. rear plane may fit easily with screw and replace with door
9. EMKA1225 lock,3-point locking system
10. sealing foamed PU seal secures the protection level
11. hem with seal prevent water and dust from entering
12. (single) the left and right exchangeable door designed for convenient use
13. standard modular mounting hole for fast installation
14. interior light for easy installation and test
15. file holder convenient for spot working
16. mounting rail for mounting without mounting plate (at your choice)
17. fan and filter secures ventilation protection level IP54 (at your choice)
18. base for easy installation and removal (at your choice)
19. two mounting plates with large capacity (at your choice)
20. door installation bar for fast installation
21. all frame structure side panel. front/rear door and cover/bottom plate all can be removed thus fit various requirements

TS 框架式通用控制櫃

TS universal frame enclosures



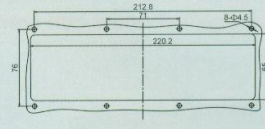
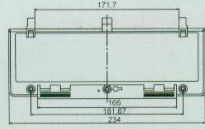
序號 no	規格型號 model	高 height (mm)	寬 width (mm)	深 dettth (mm)	序號 no	規格型號 model	高 height (mm)	寬 width (mm)	深 dettth (mm)
01	TS166040	1600	600	400	17	TS201080	2000	1000	800
02	TS168050	1600	800	500	18	TS201260	2000	1200	600
03	TS121250	1600	1200	500	19	TS201280	2000	1200	800
04	TS186040	1800	600	400	20	TS201250	2000	1200	500
05	TS186050	1800	600	500	21	TS217050	2100	700	500
06	TS187050	1800	700	500	22	TS226050	2200	600	500
07	TS188050	1800	800	500	23	TS228050	2200	800	500
08	TS188040	1800	800	400	24	TS221050	2200	1000	500
09	TS181040	1800	1000	400	25	TS221050	2200	1200	500
10	TS181240	1800	1200	400	26	TS226060	2200	600	600
11	TS206050	2000	600	500	27	TS228060	2200	800	600
12	TS208050	2000	800	500	28	TS221060	2200	1000	600
13	TS201050	2000	1000	500	29	TS221260	2200	1200	600
14	TS201060	2000	1000	600	30	TS228080	2200	800	800
15	TS208060	2000	800	600	31	TS221080	2200	1000	800
16	TS206060	2000	600	600	32	TS221280	2200	1200	800

INSPECTION WINDOWS IP65

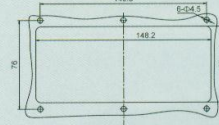
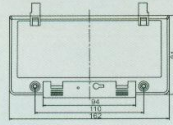
配電箱視窗IP65

Material: polycarbonate non-corrosive and UV stabilised, V2

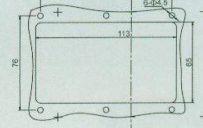
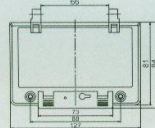
■ 型號 / MODEL : EW121



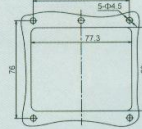
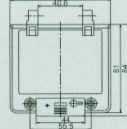
■ 型號 / MODEL : EW081



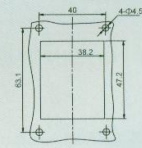
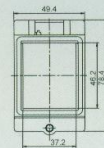
■ 型號 / MODEL : EW061



■ 型號 / MODEL : EW041



■ 型號 / MODEL : EW021



Perspect

EW8295	82x95
EW1115	117x157
EW1418	147x187
EW2323	234x234

ACCESSORIES

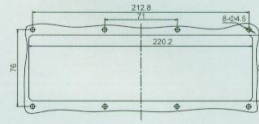
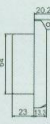
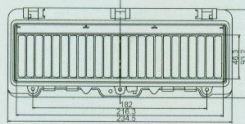
Operating window self closing, transparent, IP44, milled screws, IP65 lockable and/or can be sealed, out of high-grade, impact resistant plastic

附件

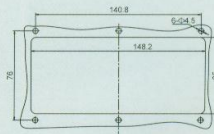
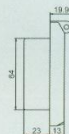
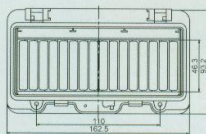
透明自閉操作窗IP44, 帶滾花螺釘IP65密封, 可鎖, 優質抗沖灌塑料

Material: polycarbonate non-corrosive and UV stabilised, V2

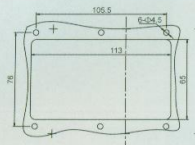
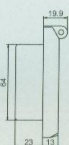
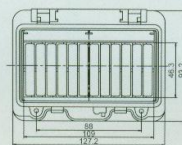
■ 型號 / MODEL : EW12



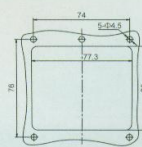
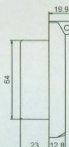
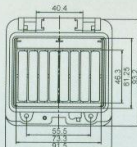
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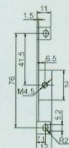
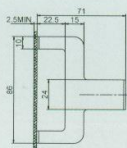
■ 型號 / MODEL : EW6



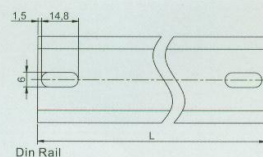
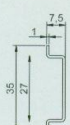
■ 型號 / MODEL : EW4



■ BRACKET FOR DIN RAIN



■ DIN RAIL TS35/TS35軌道



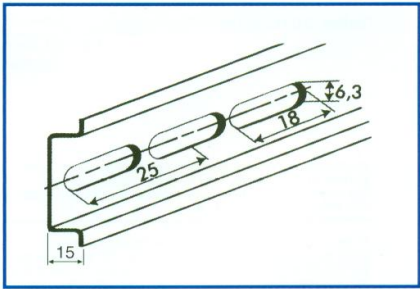
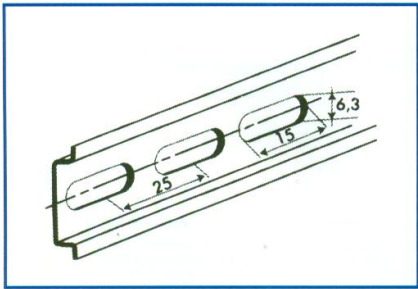
Item	Length
2 Model	54
4 Model	88
6 Model	120
8 Model	165
10Model	227

ROHS DIN RAIL TS35
ROHS 指令 TS35 鋼軌

STANDARDS : EN 1483
TUV Ref.-No : 113073648



Model 型號	Length 長度	Weight(1 meter) 重量(1 meter)	Perforation(mm) 孔距(mm)	Pack 包裝
TS 35-1	1 meter	0.335	15 x 6.2 spacing 25	40
TS 35-2	2 meter	0.335	15 x 6.2 spacing 25	50
TS 35/15-1	1 meter	0.68	15 x 6.2 spacing 25	30
TS 35/15-2	2 meter	0.68	15 x 6.2 spacing 25	30



TÜV RHEINLAND TAIWAN LTD.



Nankang Branch

No. 99-23, Nan-Kang Rd., Sec. 2,
Taipei 115, Taiwan, R.O.C.
Tel. (02) 2783-6650 Fax (02) 2783-7117

Test Report

Customer : Coca Enterprise Co., Ltd.
No. 112, Jih Hsing Street, Taichung,
Taiwan, R.O.C.

TÜV Ref.-No. : 113073648

Product Description : DIN RAIL / TS35,

Date of Delivery : 11.01.2006

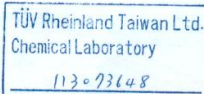
Test Period : 13.01.2006 – 20.01.2006

Place of Testing : Nankang Branch, Taipei

Test Required By : EU Directive 2002/95/EC-Restriction of the Use of Certain
Hazardous Substances (RoHS) of 27 January 2003 :
Total Content of Lead, Cadmium, Mercury, Chromium VI,

Taipei, 20.01.2006

Chi-Peng Chang
Dr. Chi-Peng Chang
(Reviewer)



The samples and product description were provided by the customer.
The test results exclusively refer to the samples examined.
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TAICHUNG BRANCH :
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Taichung 406, Taiwan, R.O.C.
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KAOHSIUNG BRANCH :
33F-3, No. 80, Min-Tzu 1st Rd.,
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Fax (07) 380-1728

NANKANG BRANCH :
No. 99-23, Nan-Kang Rd., Sec.2,
Taipei 115, Taiwan, R.O.C.
Tel. (02) 2783-6650
Fax (02) 2783-7117

1/2

Small, compact Thermostat STH 01 / STF 01
Built-in into electrical cabinet

小型自動恆溫調節器 STH 01 STF 01



STH 01

STF 01

- 安裝簡易 ● Simple to mount
- 體積小 ● Large setting range
- 使用壽命長 ● Small size

STH 01: 加熱恆溫調節器搭配電熱器使用

STF 01: 散熱恆溫調節器可搭配風扇和熱交換器或適用於溫度交界點傳遞信號控制

STH 01: Thermostat (normally closed) contact breaker for regulating heaters.

STF 01: Thermostat (normally open) contact maker for regulation of filter fans and heat exchangers or for switching signal transmitters when temperature limit has been exceeded.

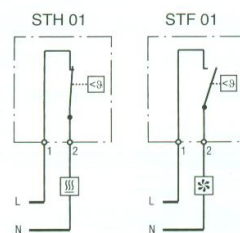
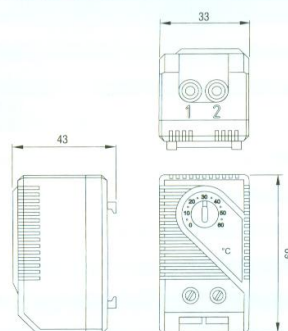


Technical data 技術參數:

Sensor element 感應元件:	Thermostatic bimetal 雙金屬感溫材料
Switch temperature difference 切換溫度誤差:	7K (±4K tolerance/誤差)
Contact type 接點型態:	Snap-action contact 快速動作接點
Contact resistance 接點阻抗:	< 10mΩ
Service life 壽命:	100000 cycles / 次
Max. Switching capacity 最大切換容量:	10A 250VAC
Rated impulse voltage 額定脈衝電壓:	2500V
EMC:	(acc. to/依照) EN55014-1-2, EN61000-3-2, EN61000-3-3
Type 1 or Type 2 action 動作型態:	Type 1.C action
Control pollution degree 控制污染等級:	Pollution degree 2
Heat and fire resistance category 加熱防火等級:	Category D
Class II controls 防電極保護:	☒
Connection 接線方式:	2 pole terminal 2.5mm ² 2極接線端子台2.5mm ²
Mounting 安裝固定方式:	Clip for 35mm DIN rail, EN 50022, DIN 軌道 EN50022
Casing 外殼材料:	Plastic 塑料, UL94 V0
Dimensions 外觀尺寸:	60X33X43 mm (H X W X D)
Weight 重量:	40g
Protection type 保護等級:	IP20
Circuit disconnection:	Micro-interruption



Setting range	Art. No. Contact Breaker (NC)	Art. No. Contact Marker (NO)
0 to +60°C	STH01.060	STF01.060
-10 to +50°C	STH01.050	STF01.050
+20 to +80°C	STH01.080	STF01.080
+32 to +140°F	STH01.140	STF01.140



Heater 電熱器

Filter fan, Cooling equipment, Signal device
散熱風扇, 冷卻設備, 信號裝置



- 具備加熱與散熱接點輸出
- 加熱與散熱之溫度分開調整
- 高電流切換能力
- 配線容易
- 固定採用軌道方式
- NO and NC in one casing
- Separate adjustable temperatures
- High switching capacity
- Terminals easily accessible
- Clip fixing

加熱與散熱兩種自動恆溫調節器裝在同一個盒子裡。

NC接點控制調節電熱器，NO接點控制調節散熱風扇與熱交換器、或切換信號裝置。當溫度上升到達所設定之溫度時，電熱器與散熱風扇可以被獨立控制。

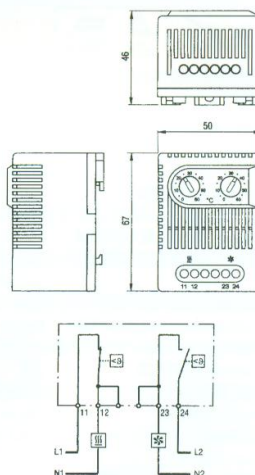
Thermostat (contact breaker, normally closed) for regulating heaters.

Thermostat (contact maker, normally open) for regulating filter fans and heat exchangers or switching signal devices when temperature limit has been exceeded.

Heaters and cooling equipment can be switched independently from each other with a temperature offset as opposed to the usual change-over contacts.

Technical data 技術參數：

Switch temperature difference 切換溫度誤差：	7K(±4K tolerance) 7K(±4K 誤差)
Sensor element 感應元件：	thermostatic bimetal 雙金屬感溫材料
Contact type 接點型態：	snap-action contact 快速動作接點
Contact resistance 接點阻抗：	<10mΩ
Service life 壽命：	100,000 cycles 100,000 次
Max.Switching capacity 最大切換容量：	250VAC,10 (2) A 120VAC,15 (2) A DC 30W
EMC：	acc.to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3 依照EN 55014-1-2, EN 61000-3-2, EN 61000-3-3
Connection 接點方式：	4-pole terminal, clamping torque 0.5Nm max.: rigid wire 2.5mm ² stranded wire (with wire end ferrule)1.5mm ² 4極接線台(夾緊力0.5Nm),最大2.5mm ²
Mounting 安裝固定方式：	clip for 35mm DIN rail, EN50022 35mm DIN軌道，EN50022
Casing 外殼材料：	plastic according to UL94 V-O, light grey 塑料，UL94VO
Dimensions 外觀尺寸：	67 x 50 x 46mm
Weight 重量：	approx. 90g 約90g
Fitting position 固定方向：	variable 沒有限制
Operating/Storage temperature 操作/儲存溫度：	-20 to+80°C(-4 to+176°F) -45 to+80°C(-49 to+176°F)
Protection type 1 保護等級：	IP20



Heater電熱器

Filter fan,Cooling equipment, Signal device
散熱風扇,冷卻設備,信號裝置

Art. No型號	Setting Range溫度範圍	Setting Range溫度範圍
011.060.060	contact breaker, normally closed 動作時打開(OFF), 動作時關閉(ON)	0 to + 60°C
011.140.140	contact breaker, normally closed 動作時打開(OFF), 動作時關閉(ON)	+ 32 to + 140°F
011.050.080	contact breaker, normally closed 動作時打開(OFF), 動作時關閉(ON)	- 10 to + 50°C
011.122.176	contact breaker, normally closed 動作時打開(OFF), 動作時關閉(ON)	+ 14 to + 122°F
111.060.060	contact maker, normally open 動作時關閉(ON), 動作時打開(OFF)	0 to + 60°C
111.140.140	contact maker, normally open 動作時關閉(ON), 動作時打開(OFF)	+ 32 to + 140°F



加熱散熱兩用型 自動調溫器



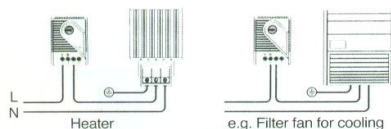
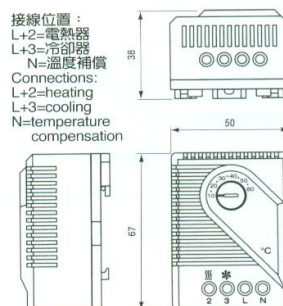
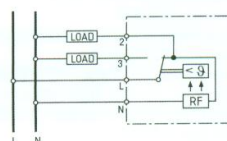
SHF 11 Thermostat SHF 11

機械式自動調溫器，可同時控制加熱器與冷卻扇或信號燈。自動調溫器調整周圍溫度，並且經由接點動作可以切換電阻性與電感性負載。

The mechanical thermostat is used for controlling heating and cooling equipment filter fans or signal lamps. The thermostat registers the surrounding air and can switch both inductive and resistive loads via snap-action contact.

Technical data 技術參數 : SHF 11

Sensor element 感應元件 :	Thermostatic bimetal 雙金屬感溫材料
Adjustment range 溫度範圍 :	5-60°C可調整 Switch temperature difference approx. 4K (*with thermal feedback approx. 0.5K)
Contact type 接點型態 :	Change-over snap-action contact 1組常閉接點/常開接點
Breaking/making capacity 接點容量 :	Break contact 10A(4)250V AC 常閉接點10A(4)250V AC Make contact 5A(2) 250V AC常開接點5A(2)250V AC
Radio interference	N(VDE 0875)
Suppression grade 防止干擾等級 :	4-pole terminal 4極接線端子2.5mm
Connections 接線方式 :	Clip for 35mm DIN rail(EN50022)
Mounting 安裝固定方式 :	35mm DIN軌道(EN50022)
Dimensions 外觀尺寸 :	67 X 50 X 38mm(H X W X D)
Casing 外殼材料 :	Plastic 塑料 : UL94 V0
Weight 重量 :	100g
Protection class 保護等級 :	IP20



連接端子N會使溫度回饋工作 (RF熱敏電阻)並且可減少切換溫度差異，可以使控制的溫度較於穩定。(只有在230V控制使用時)

*Connecting terminal "N" causes the thermal feedback (RF heating resistor) to work and reduces the switch temperature difference. (Only fully effective at 230V)



機械式溼度調節器 MHR 1220 Mechanical Humidity Regulator

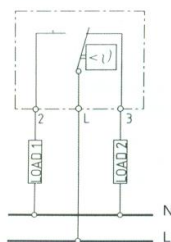


電子機械式溼度調節器是被設計用於控制電櫃裡的電熱器，因此當溼度超過65%時其水珠將會被排除，用這種方法可有效預防水滴與生鏽。

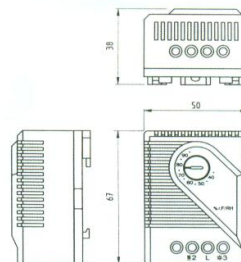
The electromechanical thermostat MHR 1220 is designed to control enclosure heaters so that the dew point is raised when a critical relative humidity of 65% is exceeded. In this way condensation and corrosion is effectively prevented.

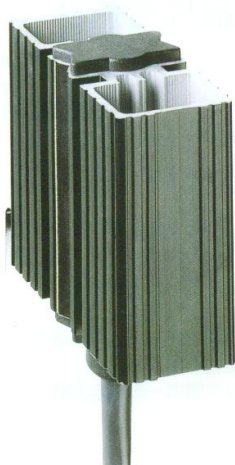
Technical data 技術參數 : MHR 1220

Measuring range 測定範圍 :	35-95% relative humidity 35-95%相對溼度
Measurement accuracy 測定精度 :	±3.0% relative humidity ±3.0%相對溼度
Switching difference at 切換差異在	
50% relative humidity (microswitch)	APPROX. 4% relative humidity 接近 4%相對溼度
50% 相對溼度 (微動開關)	
Peak voltage 最大電壓 :	250V AC
Switching capacity, maximum load 切換容量，最大負載 :	
Resistive load 電阻性負載 :	5A 250V (service life 50,000 cycles) 5A 250V (50,000週期壽命)
Inductive load $\cos\phi = 0.8$ 電感性負載 $\cos\phi = 0.8$:	0.2A 250V AC
Inductive load $L/R=3ms$ 電感性負載 $L/R=3ms$:	1A-50V DC, 0.5A-75V DC
Switching capacity, minimum load 切換容量，最小負載 :	100mA, 20V DC/AC
Contact type 接點型態 :	Change-over contact 1組常閉/常開接點
Radio interference suppression level 防止干擾等級 :	N (in compliance with VDE 0875)
Permissible ambient temperature 周圍溫度範圍 :	0-60°C
Mean temperature coefficient 設定溫度係數 :	-20% relative humidity/k at 20°C -20%相對溼度/K 在20°C and 50% relative humidity 和50%相對溼度
Permissible air velocity 空氣可許速率 :	15m/sec
Half value period	
Where $V=2m/sec$ 二分之一週期	1.2min
Mounting position 適用地方 :	No constraints 不拘
Connection 接線方式 :	Terminals in casing, 3 x 2.5mm ² , 3極 3 X 2.5mm ²
Casing 外殼材料 :	Plastic 塑料 UL94 V0
Mounting 安裝固定方式 :	Clip for 35mm DIN rail (EN 50022) 35mm DIN軌道 (EN 50022)
Protection type 保護等級 :	IP20 (DIN40050)
Dimensions 外觀尺寸 :	H X W X D 67X50X38mm
Weight 重量 :	60g



LOAD 1 = Enclosure heater
LOAD 2 = Air humidifier





小型晶片電熱器 SSH 55 Small Semiconductor Heater Series SSH 55



電熱器使用於電櫃內可預防產生水珠或預防溫度降至零下或預防溫度降至於最小需求值。
用此方法可避免生鏽甚至可獲得一個安全溫度

The heaters are used in enclosures where condensation is to be prevented or the temperature may not fall below a minimum value. In this way corrosion is avoided and an even temperature is ensured.

Technical data SSH 55 / 技術參數//SSH 55

Operating voltage 工作電壓:	AC/DC 110-250V Max.265V
Heating capacity 電熱器種類:	10W,20W,30W,55W
Heating element 發熱元件:	PTC resistor, self regulating PTC 發熱體
Radiator 放熱體:	Anodised extruded aluminium profile 阻極化處理鋁殼
Protection class 保護安全等級:	II
Protection type 保護等級:	IP54
Connection cable 連接電纜線:	2X0.75mm ² X300mm silicone cable 硅酮電纜線
Mounting 安裝固定方式:	Clip for 35mm DIN rail, EN 50022 35mm DIN軌道(EN 50022)

Art. No 型號	Heating capacity 瓦特數	max.current at make 連續電流	L 長度	Weight 重量
SSH55.10	10W	1.0A	50mm	0.1kg
SSH55.20	20W	2.5A	60mm	0.2kg
SSH55.30	30W	3.0A	70mm	0.2kg
SSH55.55	55W	2.8A	50X70X80mm	0.26kg

* at room temperature 20°C / 在室溫20°C

Determination of heating capacity for switch cabinets

$$P=A \times \Delta T \times K$$

P= Required heating capacity(W)

A= Complete free-standing or heat losing surface of switch cabinet (m²)

ΔT = Temperature difference between the ambient temperature and the average desired internal temperature of the switch cabinet(k)

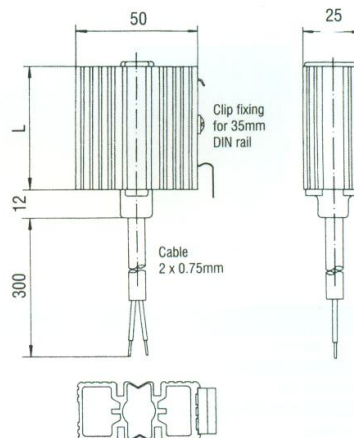
k= Heat transmission coefficient

Lacquered steel sheet~5.5W/m²k

Polyester ~ 3.5W/m²k

當使用於屋外時計算此電熱容量必須加倍。

When used outside:double the calculated heating capacity





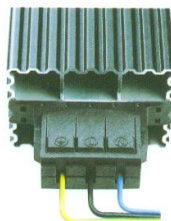
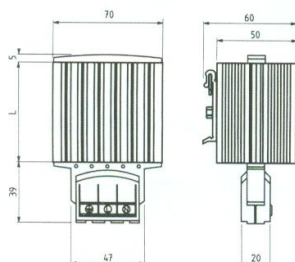
大型電櫃專用晶片電熱器 SEH 150



Semiconductor Enclosure Heater Series SEH 150

電熱器使用於電櫃內，可預防產生水珠或預防溫度降至零下或預防溫度降至於最小需求值。
用此方法可避免生鏽，甚至可獲得一個安全溫度。

The heaters are used in enclosures where condensation is to be prevented or the temperature may not fall below a minimum value. In this way corrosion is avoided and an even temperature is ensured.

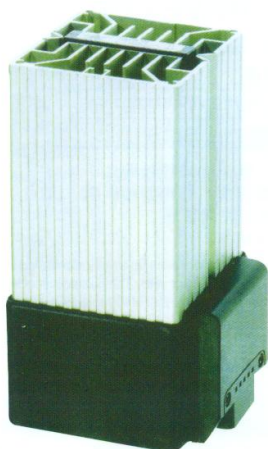


Technical data SEH 150 / 技術參數SEH 150

Operating voltage 工作電壓：	AC/DC 110-250V max. 265V
Heating element 發熱元件：	PTC resistor, self regulating PTC發熱體
Radiator 放熱體：	Anodised extruded aluminium profile 陽極化處理鋁殼
Protection class 保護安全等級：	I, test voltage 1600V I • 測試電壓1600V
Protection type 保護等級：	IP20
Connection cable 連線方式：	3xpressure clampos for stranded and rigid wire 0.5-2.5mm ² 3級壓迫式端子台 電線範圍0.5-2.5mm ²
Mounting 安裝固定方式：	Clip for 35mm DIN rail, EN50022 35mm DIN軌道(EN 50022)

Art. No型號	Heating capacity瓦特數	max.current at make連續電流	L長度	Weight重量
SEH150.015	15W	1.5A	65mm	0.3kg
SEH150.030	30W	3.0A	65mm	0.3kg
SEH150.045	45W	3.5A	65mm	0.3kg
SEH150.060	60W	2.5A	140mm	0.4kg
SEH150.075	75W	4.0A	140mm	0.5kg
SEH150.100	100W	4.5A	140mm	0.5kg
SEH150.150	150W	9.0A	220mm	0.7kg

* at room temperature 20°C / 在室溫20°C



CE

輕巧型風扇加熱器 SFH 400系列 Simple Fan Heater SFH 400 Series

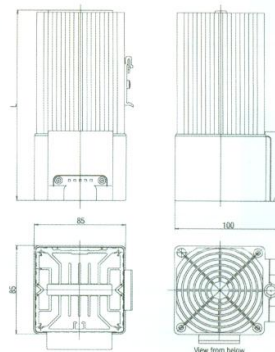
- 輕巧的設計
- 內建溫度安全切斷開關
- 可簡單的固定於軌道
- 壽命長
- 免保養
- Compact Design
- Temperature safety cut-out
- Clip fixing
- Long service life
- Maintenance free

輕巧型風扇加熱器，可預防水珠之形成。一體之軸流風扇提供強力空氣循環，使開關箱裡之溫度穩定，當風扇故障時，其加熱氣之內建安全切斷開關會停止加熱器繼續加熱。

This compact fan heater prevents the formation of condensation. The integrated axial fan provides forced air circulation and so guarantees an even temperature in enclosures. A built-in temperature safety cut-out switches the heater off, in the event of fan failure.

Technical Data/ 技術參數

Operating voltage / 使用電壓 :	AC 220-240V, 50-60Hz AC 110-120V, 50-60Hz DC 48V, DC 24V
Heating element / 加熱元理 :	resistance heater / 電阻性加熱器
Temperature safety cut-out / 溫度安全切斷 :	to protect against overheating in case of fan failure 風扇故障時，以保護加熱器過熱
Heater body / 加熱器本體 :	extruded aluminium profile, anodised 鋁合金
Surface temperature / 表面溫度 :	max. 75°C (400W) / 最高75°C (400W)
Connection / 連接方式 :	3-pole clamp for 2.5mm ² 3P夾式端子台，線徑2.5mm ²
Axial fan, ball bearing :	service life 50 000h at 25°C (77°F) 軸承式，壽命50 000h在25°C (77°F)
Air flow, free flow :	AC: 45m ³ /h(50Hz)and/or 54m ³ /h(60Hz) DC:54m ³ /h
Mounting / 固定方式 :	clip for 35mm DIN rail, EN 50022 固定於35mm DIN軌道上，EN 50022
Fitting position / 固定方向 :	preferably vertical / 最好是垂直方向
Operating/Storage temp	-40 to +70°C (-40 to +158°F)
操作/儲存溫度 :	-40 到 +70°C (-40 到 +158°F)
Prot. type/Prot. class	IP20 / I (earthed)
保護等級 / 保護等級 :	IP20 / I (接地)
Approvals / 認證 :	



Art. No.	Operating voltage	Heating capacity	Length (L)	Weight (approx.)
400.25.230	AC 230V, 50-60Hz	250W	182mm	1.1kg
400.40.230	AC 230V, 50-60Hz	400W	222mm	1.4kg
400.25.120	AC 120V, 50-60Hz	250W	182mm	1.1kg
400.40.120	AC 120V, 50-60Hz	400W	222mm	1.4kg
400.25.024	DC24V	250W	182mm	1.0kg
400.25.048	DC48V	250W	182mm	1.0kg
400.40.048	DC48V	400W	222mm	1.3kg

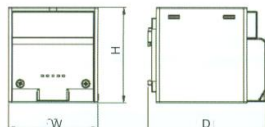
小型晶片風扇加熱器：

Compact semiconductor Fan Heater CSFH400

150W to 400W



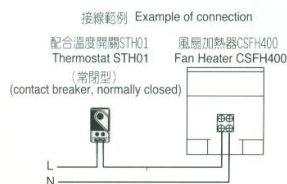
Photo : Fan Heater CSFH400



底下
View : back side



卡式固定
Clip fixing



- Small, compact design 輕巧型設計
- Quiet in operation 靜音
- Dynamic heating up 具有動力學的加熱方式
- Clip fixing 固定方式導軌安裝

風扇加熱器展現小型化之結構，搭配使用控制元件可提供在開關箱內部之平均空氣溫度。接線連接採用端子台。CSFH400之小型化，使用在開關箱內可節大量空間而具備高附加價值。

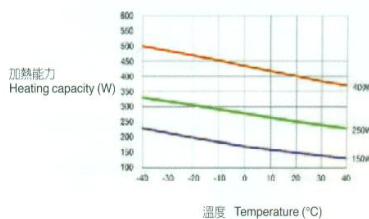
Fan heater prevents formation of condensation and provides an evenly distributed interior air temperature in enclosures with electric/electronic components. The heater is connected using the internal terminal connectors. The small size of the CSFH400 makes it ideal for use in enclosures where space is at a premium.



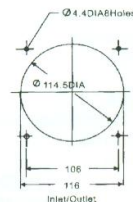
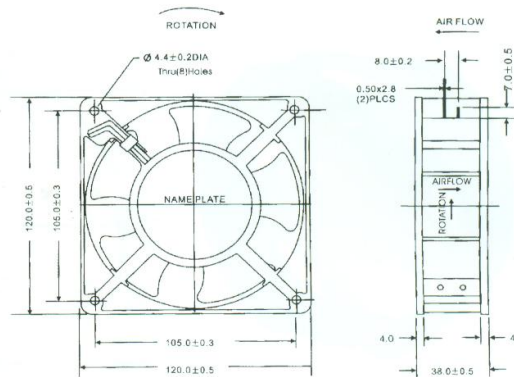
Technical Data

Heating element	TPC發熱元件 PTC heating element
Surface temperature	150/250W: 最高50°C (122°F) 最上面的風扇網除外 150W/250W : max. 50°C (122°F), except upper protective grille
	400W: 最高65°C (149°F) 最上面的風扇網除外 400W : max. 65°C (149°F), except upper protective grille
	在周圍溫度20°C (68°F) 之下 at 20°C (68°F) ambient temperature
Axial fan, ball bearing	air flow, free flow: 空氣流動 45m³/h (230VAC), 54m³/h (120VAC) service life 40,000h at 40°C (104°F)
Connection	二極夾式，最大2.5mm² 2-pole clamp max. 2.5mm² 夾式扭矩最大0.8牛頓米 clamping screw torque 0.8Nm max.
Casing	黑色塑膠外殼符合UL94-0 plastic according to UL94-0, black
Mounting	卡式35mm DIN軌道 clip for 35mm DIN rail.
Fitting position	垂直 (立式)，風扇網朝上。 vertical airflow (air outlet up)
Operating / Storage temperature	-45 to +70°C (-49 to +158°F)
Protection type / Protection class	IP20/II 雙層絕緣 IP20/II (double insulated)
Note	若有需求，可供應其它的電壓 other voltages on request

加熱能力 / 環境溫度曲線圖
Heating capacity / Ambient temperature diagram

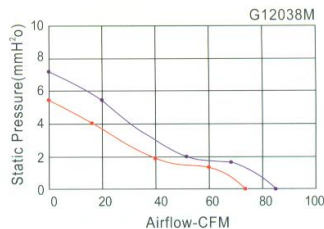
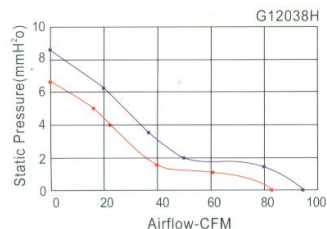


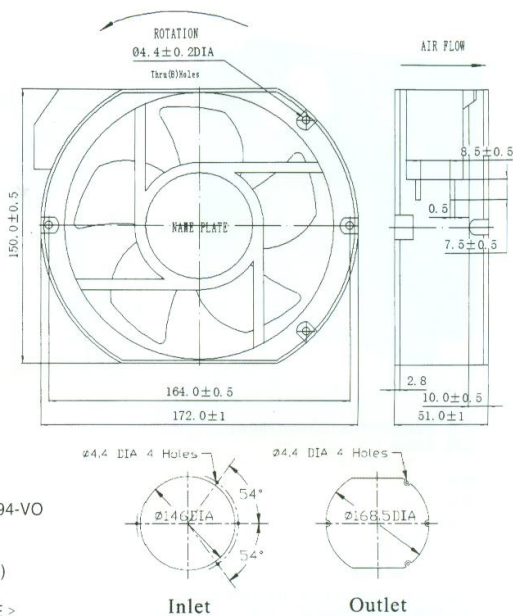
料號 夾式	操作電壓	加熱容量	瞬間電流	保險絲 (延遲型)	尺寸	重量
CSFH400.15.230	230VAC, 50/60Hz	150W	12A	6.3A	75x65x90mm	0.3kg
CSFH400.25.230	230VAC, 50/60Hz	250W	9A	6.3A	90x85x111mm	0.5kg
CSFH400.40.230	230VAC, 50/60Hz	400W	15A	10A	90x85x111mm	0.5kg
CSFH400.15.120	120VAC, 50/60Hz	150W	6A	6.3A	75x65x90mm	0.3kg
CSFH400.25.120	120VAC, 50/60Hz	250W	6A	6.3A	95x85x111mm	0.5kg
CSFH400.40.120	120VAC, 50/60Hz	400W	9A	6.3A	95x85x111mm	0.5kg



尺寸 Size: 120mmx120mmx38mm
 風量 Airflow: 122~162m³/hr
 72-95CFM
 重量 Weight: 480g
 噪音 Noise: 39~48dBA
 風葉 Impeller: PBT Thermoplastic Black, UL94-V0
 外框 Frame: Aluminum Alloy
 端子 Terminals: 0.5mm
 引線 Lead Wire: AWG#22 UL 1007(Optional)
 馬達 Motor: Shaded Pole Induction Motor
 安規認證 Certification: UL > CUL > TUV > CE >
 溫度範圍 Operation Temperature: -10°C ~ +65°C

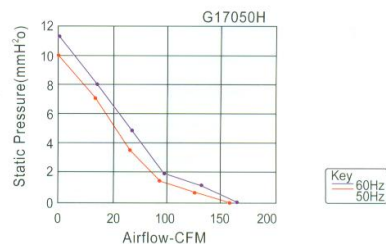
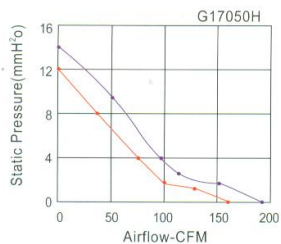
型號 Model	軸承型式 Bearing System	電壓 Voltage VAC	頻率 Freq. Hz	電流 Current A	功率 Power W	轉速 Speed RPM	噪音 Noise dBA	風量 Air Flow		相數 Phase	電容 Capacitor
								M3/hr	CFM		
G12038HA,S	Sleeve	100~125	50/60	0.28	21	2600/3000	43/48	138/162	82/95	1	/
G12038HA,S		200~240	50/60	0.14	21	2600/3000	43/48	138/162	82/95	1	/
G12038HA,S		380~420	50/60	0.08	21	2600/3000	43/48	138/162	82/95	1	/
G12038HA,B	Ball	100~125	50/60	0.28	21	2600/3000	43/48	138/162	82/95	1	/
G12038HA,B		200~240	50/60	0.14	21	2600/3000	43/48	138/162	82/95	1	/
G12038HA,B		380~420	50/60	0.18	21	2600/3000	43/48	138/162	82/95	1	/





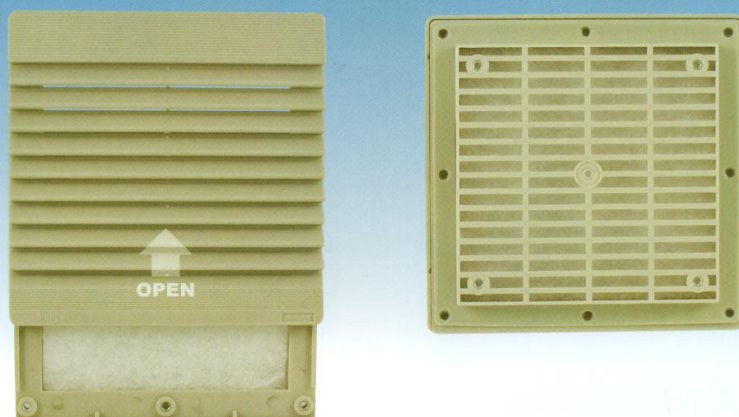
尺寸 Size: 172mmx150mmx51mm
 風量 Airflow: 272~336m³/hr
 160~198CFM
 重量 Weight: 680g
 噪音 Noise: 49~59dBA
 風葉 Impeller: PBT Thermoplastic Black, UL94-VO
 外框 Frame: Aluminum Alloy
 端子 Terminals: 0.5mm
 引線 Lead Wire: AWG#22 UL 1015(Optional)
 馬達 Motor: Shaded Pole Induction Motor
 安規認證 Certification: UL > CUL > TUV > CE >
 溫度範圍 Operation Temperature: -10°C~+65°C

型號 Model	軸承型式 Bearing System	電壓 Voltage VAC	頻率 Freq. Hz	電流 Current A	功率 Power W	轉速 Speed RPM	噪音 Noise dBA	風量 Air Flow M3/hr CFM	相數 Phase	電容 Capacitor
G17050HA,S	Sleeve	100~125	50/60	0.4	38	2600/2900	54/59	299/336 176/198	1	/
G17050HA,S		200~240	50/60	0.22	38	2600/2900	54/59	299/336 176/198	1	/
G17050HA,S		380~420	50/60	0.12	38	2600/2900	54/59	299/336 176/198	1	/
G17050HA,B	Ball	100~125	50/60	0.4	38	2600/2900	54/59	299/336 176/198	1	/
G17050HA,B		200~240	50/60	0.22	38	2600/2900	54/59	299/336 176/198	1	/
G17050HA,B		380~420	50/60	0.12	38	2600/2900	54/59	299/336 176/198	1	/

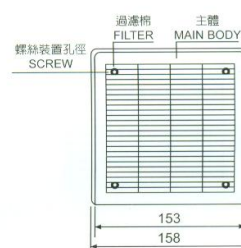
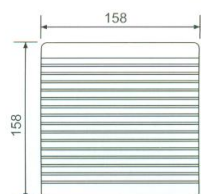


滑蓋式通風濾網組 Ventilation mesh and filtration system

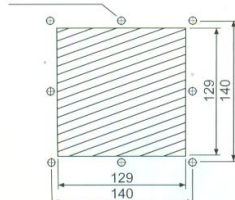
FG-4N



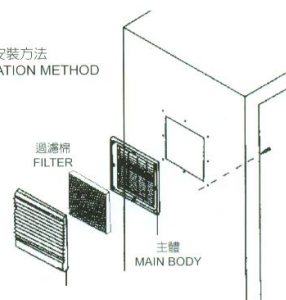
注：適用於120x120 風扇使用 / Be suitable for 120x120 fan



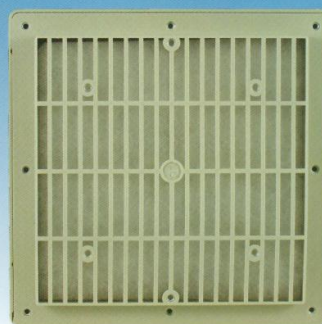
螺絲孔徑 Hole of screw
M4 x 8



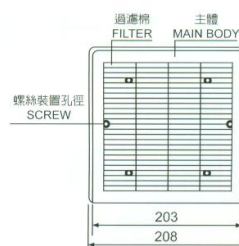
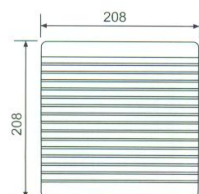
安裝方法
INSTALLATION METHOD



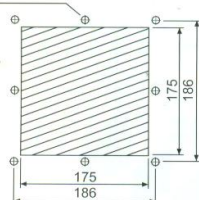
FG-6N



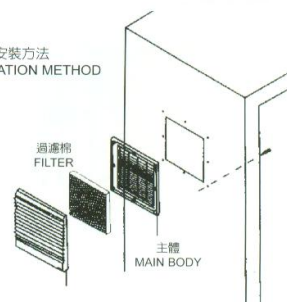
注：適用於120x120/172x150 風扇使用 / Be suitable for 120x120/172x150 fan



螺絲孔徑 Hole of screw
M4 x 8



安裝方法
INSTALLATION METHOD



● Airflow Monitor LCF 013 氣流檢測器 LCF 013



Mechanical switch contact	開關式接點
Versatile fields of application	可應用於多方面領域
Small size	輕巧
Easy to connect	容易安裝

氣流檢測器應用於檢測風扇或過濾網之流動空氣。當風扇故障或過濾網過髒，以致造成空氣沒流動，而氣流檢測器的開關便會動作。這種簡單的機械操作和複雜的電子檢測系統的選用，可以有另一種選擇使用方式。

The airflow monitor (NC/NO) is designed to indicate the loss of air movement of a fan or filter fan. The contact detects the loss of air movement caused by fan failure or blocked filter media regardless of direction of air. Its simple mechanical operation makes it a viable alternative to electronic monitoring systems.



Technical Data 技術規格:

Contact type 接點型式	reed / magnet contact (磁簧 / 磁鐵接點)
Normally Closed (NC) 常閉 (NC)	switch contact open when air is flowing 當空氣流通時接點是打開的
Normally Open (NO) 常開 (NO)	switch contact closed when air is flowing 當空氣流通時接點是閉合的
Max. switching voltage 最大切換電壓	NC: 240VDC (UL), 240V AC/DC (VDE) / NO: 60VDC
Max. switching current 最大切換電流	NC: DC 500mA / NO: DC 170mA
Max. switching capacity 最大切換功率	10W (resistive load) (電阻性負載)
Switching threshold of airflow velocity 最小氣流速度	> 2.5m/s (hysteresis 滯後: > 1m/s)
Max. airflow velocity 最大氣流速度	50m/s
Contact resistance 接點電阻	< 370m Ω (with wire) (含電線)
Max. air humidity 最大空氣濕度	70% RH (not precipitating)
Service life 壽命	>100,000 cycles
Mounting 安裝	alternatively integrated in protective grille (see table), mounting clamp or mounting clip 安裝於塑膠網或使用塑料管夾及O型夾固定
Casing 外殼	plastic according to UL94-HB, black 塑料符合 UL94-HB, 黑色
Fitting position 安裝位置	bidirectional tab perpendicular to airflow
Operating / Storage temperature 操作 / 儲存溫度	-20 to +50°C (-4 to +122°F) / -20 to +80°C (-4 to +176°F)
Protection type 保護等級	IP20

Note: The product of switching voltage and switching current must not exceed 10W. The max. voltage and max. current must not be exceeded, not even short-term (voltage/current peaks). The resulting voltage and current peaks of inductive or capacitive loads must be restricted by a contact protection circuit.

應用:

LCF 013 是使用一個接點來檢測風扇或含有過濾網之風扇。安裝於開關裡，可以直接連接於檢測系統作遠方控制或直接切換警報設備，例如LED或信號燈。若負載超過接點容量則需透過繼電器來推動氣流檢測器使用 NC 接點，當風扇故障時則接點閉合。若使用 NO 接點則當接點閉合時表示風扇正常。

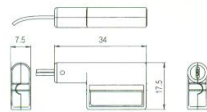
Application:

The LC 013 is used as a signal contact to monitor fans or filter fans in stationary, self-contained Protection Class I enclosures. It can be connected to monitoring systems with remote control or can directly switch alarm devices, such as LED's or signal lamps. Loads with capacities exceeding the indicated switching capacity must be switched via a relay, e.g. our electronic relay SM 010. The airflow monitor with NC contact closes upon loss of air movement, i.e. it indicates fan failure (e.g. red signal lamp). The NO contact closes when fan is in operation and serves as optical function display (e.g. green signal lamp).

氣流檢測器與格柵板組合在一起
Airflow monitor integrated in protective grille



120x120



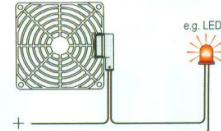
O型夾
Fixing clip



管夾
Fixing clamp



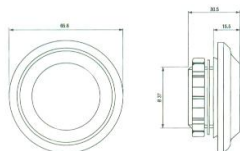
直接連接到LED
Connection example



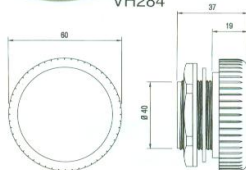
Description	Art. No. (NC)	Art. No. (NO)	Dimensions	Weight
Air monitor integrated in protective grille (plastic) LCF 013 安裝於塑料網上	LCF 013000	LCF 013001	120 x 120 X 10mm	36g



VH84



VH284

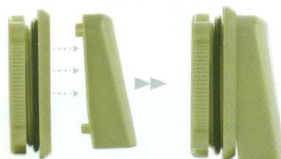


VH-40



CAP

VH-60



通風器 / Ventilator

Features / 特色

- 安裝容易。
- IP55 / IP66防護等級。
- 提供開關箱裡面之電氣設備有良好之防水防塵保護。
- Easy to install.
- High degree of protection, IP55 / IP65.
- Provide a high degree of protection for humidity and dust in order to get good environment protection for electrical devices.

TYPE / 型號 : VH84

Technical Data / 技術規格 :

- Degree of protection / 保護等級 : IP55
- Mounting / 安裝 : PG29-Ø37mm
- Depth in enclosure / 開關箱裡之深度 : 15mm
- Material / 原料 : PC, UL94V0
- Air interface / 空氣接觸面 : 7cm²
- Dimension / 尺寸 : Ø65.5x30.5mm
- Fitting position / 安裝方向 : Variable / 沒有限制
- Operating / Storage temperature / 操作, 儲存溫度 : -45~+70°C (-49~+158°F)

TYPE / 型號 : VH284

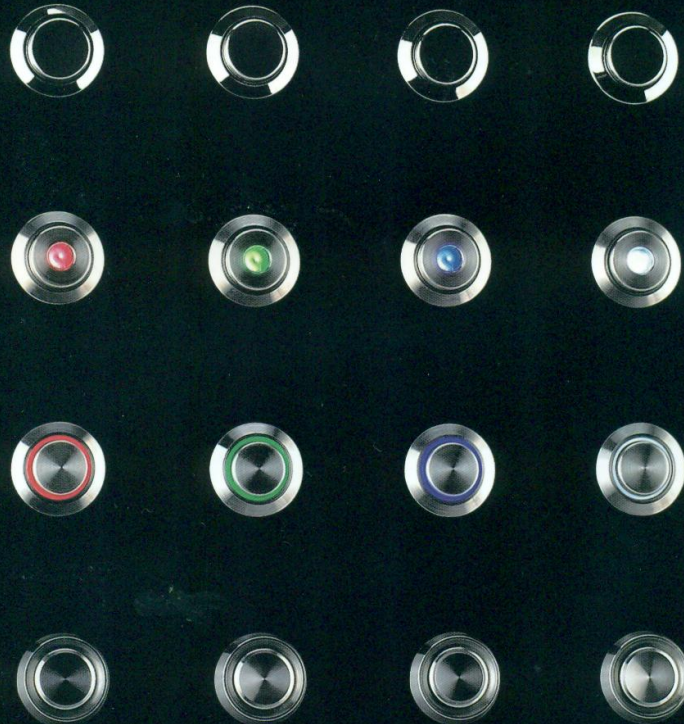
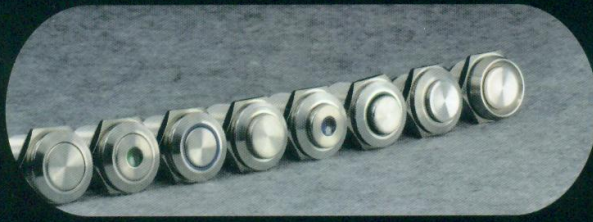
Technical Data / 技術規格 :

- Degree of protection / 保護等級 : IP66
- Mounting / 安裝 : Ø40.5mm
- Depth in enclosure / 開關箱裡之深度 : 16mm
- Material / 原料 : PC, UL94V0
- Air permeability / 空氣流量 : 1200 l/h at pressure min.
- 70 mbar, 1200 l/h 在氣壓最小 70 mbar
- Dimension / 尺寸 : Ø65.5x37mm
- Fitting position / 安裝方向 : Variable / 沒有限制
- Operating / Storage temperature / 操作, 儲存溫度 : -45~+70°C (-49~+158°F)

TYPE / 型號 : VH-40, VH-60

Technical Data / 技術規格 :

- Degree of protection / 保護等級 : IP54
- Mounting / 安裝 : VH-40 : Ø17.5mm, VH-60 : Ø62.5mm
- Depth in enclosure / 開關箱裡之深度 :
- VH-40 : 11mm, VH-60 : 11mm
- Material / 原料 : ABS, UL94V0
- Dimension / 尺寸 : VH-40 : 24x42mm, VH-60 : 75x75mm
- Fitting position / 安裝方向 : Downward / 向下
- Operating / Storage temperature / 操作, 儲存溫度 : 0~60°C (+32~+140°F)



Part-number Description 型號說明 >>

LAS2	GQ	★	—	□	■	◇	/	△	/	▲	/	◎	/	☆
Code of series 系列型號	Code name 代號	The front shape 頭部形狀	Contact structure: 接點組合	Operation mode: 操作類型	Lamp type 燈泡類型	Lamp color and colorized button: 帶燈顏色或 按鈕顏色	Lamp voltage: 燈泡電壓	The crust material: 外殼材質	IP degree: 防護等級					
		F Flat Round 平圓形 H High Round 高平圓形 G Concave Round 凹圓形 G High Concave Round 高凹圓形	11 1NO1NC 22 2NO2NC	Z Latching type 自鎖按鍵 No letter means momentary 無字母代表自鎖 按鍵	D Dot 單點 E Ring 環形	R Red 紅 G Green 綠 Y Yellow 黃 O Orange 橙 B Blue 藍 W White 白	AC/DC 6V AC/DC 12V AC/DC 24V AC/DC 110V AC/DC 220V Note: Other voltage can be made to order 其他電壓等級 可定做	N Nickel-plated Brass 黃銅鍍鎳外殼 S Stainless steel 不銹鋼外殼	IP67 No letter means IP40 無字母代表IP40					

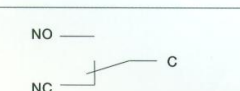
Note 注: Pls read the catalog carefully, and choose the right part-number according to the sign. 請仔細閱讀產品具體說明後，根據不同符號在該表中選取相應代號。

Lamp Ratings 燈泡規格 >>

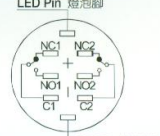
Lamp Type 燈泡類型	LED lamp (AC/DC) 雙向LED燈泡 (交流流通用)			Lamp Circuit Diagram 燈泡特效電路  ⊗ Using AC/DC LED lamp, the terminals have no difference of anode and cathode. 採用交流流通用的LED燈泡，接線端子無正負極區分 ⊗ Using inner resistance for the lamp below 60V. Using 6V lamp when the lamp voltage is above 60V, and need connect outer dropping resistance. 60V以下燈泡已內置保護電阻；60V以上時燈泡電壓採用6V燈泡，需外接降壓電阻。
LED Color 發光顏色	R G Y O B W			
Life 壽命	40000 hours (Reference) 40000小時 (參考值)			
Rated Voltage 額定電壓	AC/DC6V	AC/DC12V	AC/DC110V	
Rated Current 額定電流	AC/DC24V	AC/DC36V	AC/DC220V	
About 約 15mA		About 約 3mA		
Dropping Way 降壓方式	Inner resistance 內置電阻			
		Outer resistance when using 6V lamp 採用6V燈泡需外接電阻		

Note 注: DC LED and other voltage can be made to order. 如需單向直流LED燈泡可定製；其他電壓規格可按要求定製。

Switching Operation 開關結構說明 >>

TYPE 型式	C
Diagram 示意圖	
Sign 符號	
Explanation 說明	Using three terminals, single-break and fast-motion changeover contact. 具有三個端子的單斷點快動轉換觸頭開關

Terminal Description 引腳說明 >>

LED Pin 燈泡腳

Can use two sets at most. C1, NO1, NC1 and C2, NO2, NC2 are one set respectively. C is common used, NO is normal opened, NC is normal closed; +, - are lamp terminals, the standard LED have no difference of anode and cathode; The lamp and switch are relatively independent and can use switch or peripheral circuit to control the lamp state. 最多可配置兩組接點。 C1, NO1, NC1和C2, NO2, NC2分別為一組接點； C腳為公用腳，NO腳為常開腳，NC腳為常閉腳； +, -腳為燈泡引腳，常規燈泡配置無正負極區分； 燈泡與接點相對獨立，可通過接點或外圍電路控制燈泡狀況。

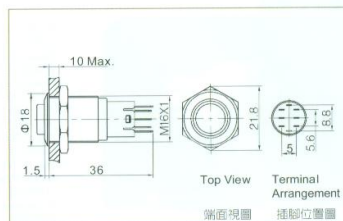
Installation Effect 安裝效果預覽 >>



Metal ring illuminated push button 金屬環形帶燈按鈕開關

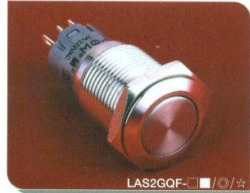


- Ø 16mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 3A/250VAC
開關額定值: 3A/250VAC
- Contact Configuration: 1NO1NC/ 2NO2NC
接點組合: 1NO1NC/ 2NO2NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Front Shape: High Round
頭部形狀: 高平圓形
- The Crust Material: Stainless Steel/
Nickel Plated Brass
外殼材質: 不銹鋼/黃銅鍍鎳
- Ring Illuminated (LED)
環形帶燈 (LED)
- IP Degree: IP40/ IP67, IK09
防護等級: IP40/ IP67, IK09

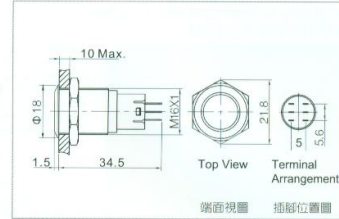


Specification 產品規格	LAS2GQF- LAS2GQH- ■/□/△/☆ ■/□/△/☆	LAS2GQF- LAS2GQH- ■/□/△/△/☆ ■/□/△/△/☆	LAS2GQF- LAS2GQH- ■/□/△/△/△/☆ ■/□/△/△/△/☆
The Front Shape 頭部形狀	Flat Round High Round 平圓形 高平圓形	Flat Round High Round 平圓形 高平圓形	Flat Round High Round 平圓形 高平圓形
Terminal Type 接線端子配置	Pin Terminal (1.8x0.4mm) 接線端子(1.8x0.4mm)	Pin Terminal (1.8x0.4mm) 接線端子(1.8x0.4mm)	Pin Terminal (1.8x0.4mm) 接線端子(1.8x0.4mm)
Switching 開關形式	C(single-break fast-motion changeover contact) C (單斷點快動轉換接點)	C(single-break fast-motion changeover contact) C (單斷點快動轉換接點)	C(single-break fast-motion changeover contact) C (單斷點快動轉換接點)
Max. Switch Rating 開關規格	1th:3A Ui:250VAC	1th:3A Ui:250VAC	1th:3A Ui:250VAC
Contact Resistance 接觸電阻	≤ 50mΩ	≤ 50mΩ	≤ 50mΩ
Insulation Resistance 絕緣電阻	≥ 1000MΩ	≥ 1000MΩ	≥ 1000MΩ
Dielectric Intensity 絕緣強度	2000VAC	2000VAC	2000VAC
Operating Temp 環境溫度	-20°C~+55°C	-20°C~+55°C	-20°C~+55°C
Mechanical Life 機械壽命	200,000 cycles	200,000 cycles	200,000 cycles
Electrical Life 電氣壽命	50,000 cycles	50,000 cycles	50,000 cycles
Panel Thickness 面板厚度	1~10mm	1~10mm	1~10mm
Torque 螺母扭矩	5~14Nm	5~14Nm	5~14Nm
Operation Pressure 操作壓力	2.5~4N	2.5~4N	2.5~4N
Operation Travel 操作行程	About 2.8mm	About 2.8mm	About 2.8mm
IP Degree 防護等級	IP40/ IP67, IK09	IP40/ IP67, IK09	IP40/ IP67, IK09
Material 材料	Contact 接點	Silver Alloy 銀合金	Silver Alloy 銀合金
	Button 按鈕	Stainless Steel/ Nickel Plated Brass 不銹鋼/ 黃銅鍍鎳	Stainless Steel/ Nickel Plated Brass 不銹鋼/ 黃銅鍍鎳
	Body 外殼	Stainless Steel/ Nickel Plated Brass 不銹鋼/ 黃銅鍍鎳	Stainless Steel/ Nickel Plated Brass 不銹鋼/ 黃銅鍍鎳
	Base 基座	PBT	PBT
LED Spec. 帶燈 部份 參數	Type 帶燈類型	Without Lamp 不帶燈	Dot Illuminated (LED) 單點帶燈 (LED)
	Rated Voltage 額定電壓	—	6V/12V/24V/110V/220V
	Color 燈泡顏色	—	R G Y O B W
	Life 燈泡壽命	—	40000 hours

Metal push button
金屬按鈕開關



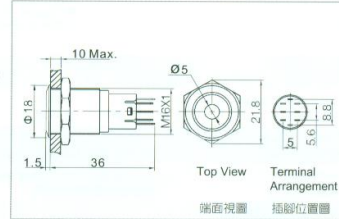
- Ø 16mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 3A/250VAC
開關額定值: 3A/250VAC
- Contact Configuration: 1NO1NC/ 2NO2NC
接點組合: 1NO1NC/ 2NO2NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Front Shape: Flat Round
頭部形狀: 平圓形
- The Crust Material: Stainless Steel/
Nickel Plated Brass
外殼材質: 不銹鋼/黃銅鍍鎳
- IP Degree: IP40/ IP67, IK09
防護等級: IP40/ IP67, IK09



Metal dot illuminated push button
金屬單點帶燈按鈕開關



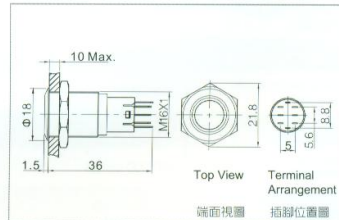
- Ø 16mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 3A/250VAC
開關額定值: 3A/250VAC
- Contact Configuration: 1NO1NC/ 2NO2NC
接點組合: 1NO1NC/ 2NO2NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Front Shape: Flat Round
頭部形狀: 平圓形
- The Crust Material: Stainless Steel/
Nickel Plated Brass
外殼材質: 不銹鋼/黃銅鍍鎳
- Dot Illuminated
帶燈方式: 單點
- IP Degree: IP40/ IP67, IK09
防護等級: IP40/ IP67, IK09



Metal ring illuminated push button
金屬環形帶燈按鈕開關



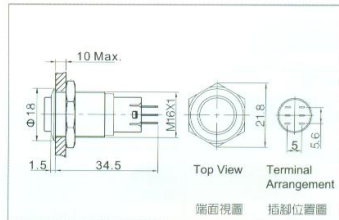
- Ø 16mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 3A/250VAC
開關額定值: 3A/250VAC
- Contact Configuration: 1NO1NC/ 2NO2NC
接點組合: 1NO1NC/ 2NO2NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Front Shape: Flat Round
頭部形狀: 平圓形
- The Crust Material: Stainless Steel/
Nickel Plated Brass
外殼材質: 不銹鋼/黃銅鍍鎳
- Ring Illuminated (LED)
環形帶燈 (LED)
- IP Degree: IP40/ IP67, IK09
防護等級: IP40/ IP67, IK09



Metal push button
金屬按鈕開關



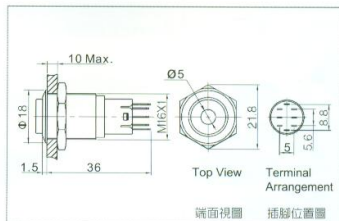
- Ø 16mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 3A/250VAC
開關額定值: 3A/250VAC
- Contact Configuration: 1NO1NC/ 2NO2NC
接點組合: 1NO1NC/ 2NO2NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Front Shape: High Round
頭部形狀: 高平圓形
- The Crust Material: Stainless Steel/
Nickel Plated Brass
外殼材質: 不銹鋼/黃銅鍍鎳
- IP Degree: IP40/ IP67, IK09
防護等級: IP40/ IP67, IK09



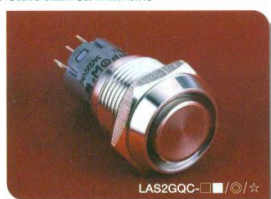
Metal dot illuminated push button
金屬單點帶燈按鈕開關



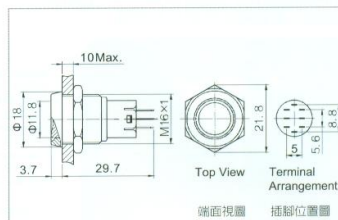
- Ø 16mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 3A/250VAC
開關額定值: 3A/250VAC
- Contact Configuration: 1NO1NC/ 2NO2NC
接點組合: 1NO1NC/ 2NO2NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Front Shape: High Round
頭部形狀: 高平圓形
- The Crust Material: Stainless Steel/
Nickel Plated Brass
外殼材質: 不銹鋼/黃銅鍍鎳
- Dot Illuminated
帶燈方式: 單點
- IP Degree: IP40/ IP67, IK09
防護等級: IP40/ IP67, IK09



Anti-vandal metal push button 高強度金屬按鈕開關



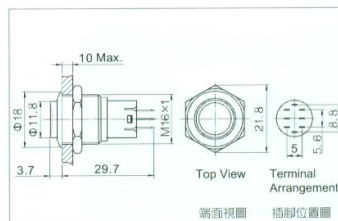
- Ø 16mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 3A/250VAC
開關額定值: 3A/250VAC
- Contact Configuration: 1NO1NC/ 2NO2NC
接點組合: 1NO1NC/ 2NO2NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Front Shape: Concave Round
頭部形狀: 凹圓形
- The Crust Material: Stainless Steel/
Nickel Plated Brass
外殼材質: 不銹鋼/黃銅鍍鎳
- IP Degree: IP40/ IP67, IK10
防護等級: IP40/ IP67, IK10



Anti-vandal metal push button 高強度金屬彩色按鈕開關



- Ø 16mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 3A/250VAC
開關額定值: 3A/250VAC
- Contact Configuration: 1NO1NC/ 2NO2NC
接點組合: 1NO1NC/ 2NO2NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Front Shape: Concave Round
頭部形狀: 凹圓形
- The Crust Material: Stainless Steel/
Nickel Plated Brass
外殼材質: 不銹鋼/黃銅鍍鎳
- IP Degree: IP40/ IP67, IK09
防護等級: IP40/ IP67, IK09
- Head Color: R/G/Y/O/B/W/N
頭部顏色: 紅/綠/黃/橙/藍/白/黑

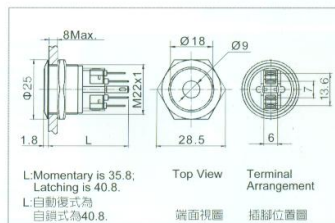


Specification 產品規格		LAS2GQC-□/□/△/☆	LAS2GQC-□/□/△/☆
The Front Shape 頭部形狀		Concave Round 凹圓形	High Concave Round 高凹圓形
Terminal Type 接點端子配置		Pin Terminal (1.8x0.4mm) 接線端子(1.8x0.4mm)	Pin Terminal (1.8x0.4mm) 接線端子(1.8x0.4mm)
Switching 開關形式		C(single-break fast-motion changeover contact) C (單斷點快動轉換接點)	C(single-break fast-motion changeover contact) C (單斷點快動轉換接點)
Max. Switch Rating 開關規格		lth:3A Ui:250VAC	lth:3A Ui:250VAC
Contact Resistance 接觸電阻		≤ 50mΩ	≤ 50mΩ
Insulation Resistance 絕緣電阻		≥ 1000MΩ	≥ 1000MΩ
Dielectric Intensity 絕緣強度		2000VAC	2000VAC
Operating Temp 環境溫度		-20°C~+55°C	-20°C~+55°C
Mechanical Life 機械壽命		200,000 cycles	200,000 cycles
Electrical Life 電器壽命		50,000 cycles	50,000 cycles
Panel Thickness 面板厚度		1~10mm	1~10mm
Torque 螺母扭矩		5~14Nm	5~14Nm
Operation Pressure 操作壓力		2.5~4N	2.5~4N
Operation Travel 操作行程		About 2.8mm	About 2.8mm
IP Degree 防護等級		IP40/ IP67, IK10	IP40/ IP67, IK09
Head color 頭部顏色		Machine brushed 本色	R G Y O B W N
Material 材料	Contact 接點	Silver Alloy 銀合金	Silver Alloy 銀合金
	Button 按鍵	Stainless Steel/ Nickel Plated Brass 不銹鋼 / 黃銅鍍鎳	Zn-Al Alloy 鋅鋁合金
	Body 外殼	Stainless Steel/ Nickel Plated Brass 不銹鋼 / 黃銅鍍鎳	Stainless Steel/ Nickel Plated Brass 不銹鋼 / 黃銅鍍鎳
	Base 底座	PBT	PBT
RoHS		Made to order 可定制	Made to order 可定制

Anti-vandal dot illuminated push button 高強度抗破壞單點帶燈按鈕開關



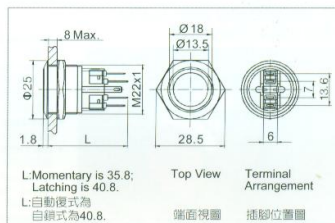
- Ø 22mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 5A/250VAC
開關額定值: 5A/250VAC
- Contact Configuration: 1NO1NC
接點組合: 1NO1NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Crust Material: Stainless Steel
外殼材質: 不銹鋼
- Dot Illuminated
帶燈方式: 單點
- IP Degree: IP65, IK10
防護等級: IP65, IK10



Anti-vandal ring illuminated push button 高強度抗破壞環點帶燈按鈕開關



- Ø 22mm Diameter
安裝孔尺寸: Ø 16mm
- Switch Rating: 5A/250VAC
開關額定值: 5A/250VAC
- Contact Configuration: 1NO1NC
接點組合: 1NO1NC
- Operation Type: Momentary/Latching
操作類型: 自復式/自鎖式
- The Crust Material: Stainless Steel
外殼材質: 不銹鋼
- Ring Illuminated
帶燈方式: 環形
- IP Degree: IP65, IK10
防護等級: IP65, IK10

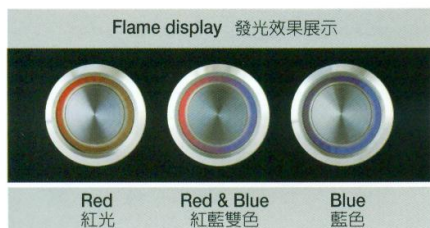
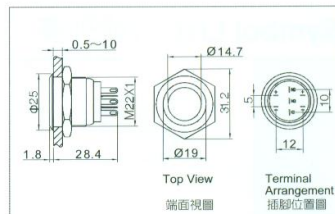


Specification 產品規格		GQ22-11-■D/△/▲	GQ22-11-■E/△/▲
The Front Shape 頭部形狀		Fiat Round 平圓形	Fiat Round 平圓形
Terminal Type 尾部配置		Pin Terminal (2.8x0.5mm) 接線插片(2.8x0.5mm)	Pin Terminal (2.8x0.5mm) 接線插片(2.8x0.5mm)
Switching 開關形式		Za(double-break fast-motion changeover contact) Za (雙斷點快動轉換接點)	Za(double-break fast-motion changeover contact) Za (雙斷點快動轉換接點)
Max. Switch Rating 開關規格		1th:5A Ui:250VAC	1th:5A Ui:250VAC
Contact Resistance 接觸電阻		≤ 50mΩ	≤ 50mΩ
Insulation Resistance 絕緣電阻		≥ 1000MΩ	≥ 1000MΩ
Dielectric Intensity 絕緣強度		2000VAC	2000VAC
Operating Temp 環境溫度		-20°C~+55°C	-20°C~+55°C
Mechanical Life 機械壽命		100,000 cycles	100,000 cycles
Electrical Life 電器壽命		50,000 cycles	50,000 cycles
Panel Thickness 面板厚度		1~8mm	1~8mm
Torque 螺母扭矩		5~14Nm	5~14Nm
Operation Pressure 操作壓力		About 5.5N	About 5.5N
Operation Travel 操作行程		About 2.5mm	About 2.5mm
IP Degree 防護等級		IP65, IK10	IP65, IK10
Material 材料	Contact 觸點	Silver Alloy 銀合金	Silver Alloy 銀合金
	Button 按鈕	Stainless Steel 不銹鋼	Stainless Steel 不銹鋼
	Body 外殼	Stainless Steel 不銹鋼	Stainless Steel 不銹鋼
	Base 底座	PA	PA
LED Spec. 帶燈部份參數	Type 帶燈類型	Dot Illuminated (LED) 單點帶燈 (LED)	Ring Illuminated(LED) 環形帶燈 (LED)
	Rated Voltage 額定電壓	6V/12V/24V/110V/220V	6V/12V/24V/110V/220V
	Color 燈泡顏色	R G Y O B W	R G Y O B W
	Life 燈泡壽命	40000 hours	40000 hours

Anti-vandal micro-travel push button 高強度微行程按鈕開關



- Ø 22mm Diameter 安裝孔尺寸: Ø 16mm
- Switch Rating: 5A/250VAC
開關額定值: 5A/250VAC
- Contact Configuration: 1NO1NC
接點組合: 1NO1NC
- Operation Type: Momentary
操作類型: 自復式
- The Crust Material: Stainless Steel
外殼材質: 不銹鋼
- Ring Illuminated 帶燈方式: 環形
- Travel: 0.5mm 行程: 0.5mm
- IP Degree: IP67 防護等級: IP67



- Feature:
- Whole sealing structure, strong waterproof;
 - Micro-travel, nice operating hand feeling;
 - Using inner switch module, reliable and sensitive connection;
 - Using two lamps; have many LED color to recognize different signal.
The same color flame in crescent ring, the different color can generate third mixed flame color at the blending place.
 - Used for low-current circuit to control the on-off signal of electronic logic circuit.

- 特點:
- 全密封結構, 防水功能強;
 - 行程小, 操作手感好;
 - 內置開關模塊, 觸點多重保護不易污染, 接觸可靠靈敏;
 - 使用雙燈泡光源, 可配置不同顏色的燈泡, 達到識別信號多樣化的功能。
同種顏色燈光呈月牙狀亮環, 不同顏色燈在交融處能產生第三種混色燈光;
 - 適用於小電流電路, 多用於控制電子邏輯電路的通斷信號。

Specification 產品規格		GQ22-11WE-△△/▲
The Front Shape 頭部形狀		Fiat Round 平圓形
Terminal Type 接線端子配置		Pin Terminal (2.4x0.3mm) 接線端子(2.4x0.3mm)
Switching 開關形式		C(single-break fast-motion changeover contact) C (單斷點快動轉換接點)
Max. Switch Rating 開關規格		0.5A / 250VAC
Contact Resistance 接觸電阻		≤30mΩ
Insulation Resistance 絕緣電阻		≥ 1000MΩ
Dielectric Intensity 絕緣強度		2000VAC
Operating Temp 環境溫度		-20°C~+55°C
Mechanical Life 機械壽命		1,000,000 cycles
Electrical Life 電器壽命		300,000 cycles
Panel Thickness 面板厚度		0.5~10mm
Torque 螺母扭矩		5~14Nm
Operation Pressure 操作壓力		About 3~6N
Operation Travel 操作行程		About 0.5mm
IP Degree 防護等級		IP67
Material 材料	Contact 觸點	Silver Alloy 銀合金
	Button 按鈕	Stainless Steel 不銹鋼
	Body 外殼	Stainless Steel 不銹鋼
	Base 基座	PA
	RoHS	Made to order 可定制
LED Spec.	Type 帶燈類型	Dot Color Ring Illuminated (LED) 雙色環形帶燈 (LED)
	Rated Voltage 額定電壓	6V/12V/24V/110V/220V
帶燈部份參數	Color 燈泡顏色	RGYOBW
	Life 燈泡壽命	40000 hours

Symbol List 符號列表

Character 文字標識	ON 1 OFF 2 UP 3 DOWN 4 STOP 5 START 6 OPEN 7 CLOSE 8 RESET 9 FAULT 10									
Number and Sign 數字及符號	1 11 2 12 3 13 4 14 5 15 6 16 7 17 8 18 9 19 0 20 ▲ 21 ▼ 22 # 23 * 24 > 25 + 26 — 27 ⚠ 28 ⚡ 29 ⏻ 30									
ISO Sign ISO符號	→ 31 Straight-line move 直線移動 ↻ 32 turn 轉動 33 start 啟動 ⊙ 34 stop 停止 ⊥ 35 start/stop 啟動 / 停止 ⊓ 36 point move 點動 ⊕ 37 pump 泵 ⊕ 38 cooling pump 冷動泵 ⊕ 39 lubricant pump 潤滑泵 ⊕ 40 hydraulic pump 液壓泵 ↻ 41 automatic or semiautomatic cycle 自動或半自動循環 → 42 spacing straightline move 限位直線移動									
Special Sign 特殊符號	🔔 43 📢 44 ⚙ 45 💡 46 ≡ 47 ≡ 48									

EB SERICE BUZZER EB 蜂鳴器系列

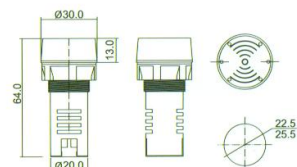
EB-22MB

Power Current	消耗電流	< 20 mA
Insulation Resistance	絕緣電阻	100MΩ 500VDC
Sound	音量	80dB

Model 型號	Voltage 電壓
EB-22MBA1	110VAC
EB-22MBA2	220VAC
EB-22MBD12	AC/DC 12V
EB-22MBD24	AC/CD 24V



EB-22MB



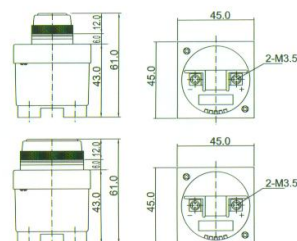
EB-PS30

Power Current	消耗電流	< 20 mA
Insulation Resistance	絕緣電阻	100MΩ 500VDC
Sound	音量	80dB

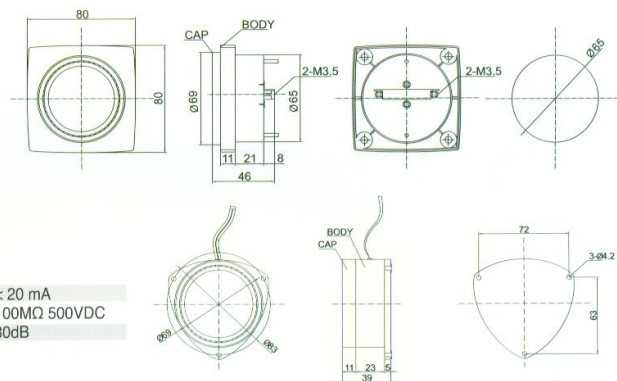
Model 型號	Voltage 電壓
EB-PS30A1	110VAC
EB-PS30A2	220VAC
EB-PS30D12	AC/DC 12V
EB-PS30D24	AC/CD 24V



EB-PS30



EB-N80 / EB-P80



EB-N80 / EB-P80

Power Current	消耗電流	< 20 mA
Insulation Resistance	絕緣電阻	100MΩ 500VDC
Sound	音量	80dB

Model 型號	Voltage 電壓
EB-N80A1	110VAC
EB-N80A2	220VAC
EB-N80D12	AC/DC 12V
EB-N80D24	AC/CD 24V

Model 型號	Voltage 電壓
EB-P80A1	110VAC
EB-P80A2	220VAC
EB-P80D12	AC/DC 12V
EB-P80D24	AC/CD 24V



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