XK Enclosure Siemens APT

Ingress Protection

IP grading reflects the ability of the enclosure to resist against solid substances and liquid by two digits. It is suitable for all products. Protection class is not equivalent to the anti-corrosion class.

IP grading is as below as per GB4208:

The first digit	The class to prevent the entry of solid foreign matters	The second digit	The class to prevent the entry of water
0	No protection	0	No protection
1	Prevent the entry of spherical objects with diameter more than 50mm	1	Prevent vertically dropping water, allow the entry of a little water drop
2	Prevent the entry of spherical objects with diameter more than 12mm	2	Prevent dropping water with inclination less than 15°, allow the entry of a little water drop
3	Prevent the entry of objects with diameter more than 2.5mm	3	Prevent sprinkling water with inclination less than 60°, allow the entry of a little water
4	Prevent the entry of objects with diameter more than 1.2mm	4	Prevent splashing water from any direction, allow the entry of a little water
5	Allow limited dust to enter (without harmful deposition)	5	Prevent spray water, allow the entry of a little water
6	Completely prevent the entry of dust	6	Prevent strong spray water, allow the entry of a little water
		7	Prevent the influence by soaking of 15mm - 1m depth
		8	Prevent long-term soaking under pressure

Selection of Operating Environment

Before enclosure selection, please first determine your operating environment before which material and enclosure size can be selected (performance comparison of different materials are specified below).

Material	Product series	Min. temperature (°C)	Max. continuous temperature (°C)	Flame retardant rating	Halogen-free	Cadmium-free	Chemical resistance performance	Anti-UV performance	Resistance to seawater corrosion	Surface resistivity(Ω)	Resistance to impact force J	Protection class IP
Steel (galvanized)	PZ30	-40	+85		Yes	Yes	Good	Ok	N/A		4	40
Stainless steel	N/A	-40	+85		Yes	Yes	Very good	Very good	Very good		7	40
PC	XK	-50	+120	V_2	Yes	Yes	Good	Good	Very good	10^{14}	6	65
PC	XJ	-50	+120	V_2	Yes	Yes	Good	Good	Very good	10^{14}	6	65
PC	XX	-50	+120	V_2	Yes	Yes	Good	Good	Very good	10^{14}	6	54
PC	XM	-50	+120	V_2	Yes	Yes	Good	Good	Very good	10^{14}	6	44
ABS	XK	-40	+80	V_0	Yes	Yes	Good	Ordinary	Very good	10^{14}	5	65
ABS	XJ	-40	+80	V_0	Yes	Yes	Good	Ordinary	Very good	10^{14}	5	65
ABS	XX	-40	+80	V_0	Yes	Yes	Good	Ordinary	Very good	10^{14}	5	54
ABS	XM	-40	+80	V_0	Yes	Yes	Good	Ordinary	Very good	10^{14}	5	44

Meaning of flame retardant rating (Flame retardant rating and its meaning)

V_0: <10s residual flame, <30s ash fire, no combustion particles, the bar may not be fully burnt.
V_2: <30s residual flame, <30s ash fire, have combustion particles, the bar may not be fully burnt.

XKA Series Enclosure

Empty enclosure with holes XKA-1~5

Empty enclosure without holes XJA-1~5 (Holes may be opened upon customer's requests)

Product Features

- 5 kinds of external sizes, 2 kinds of materials.
- Black base, grey cover.
- XKA-1~5 may be directly installed with LA39 pushbutton with a section of contact module, LW39-10 universal changeover (2 contacts) switch, LW39-16C universal changeover (2 contacts) switch, LW39-16B universal changeover (2 contacts) switch and AD16-22 series indicator lights.
- XJA-1~5 enclosures are free from wiring terminal, guide rail or fixing pin inside; they are for general wiring only.
- For horizontal installation, the pushbutton indicator light label frame may be equipped; for vertical installation, the pushbutton indicator light label frame may not be equipped.
- The general enclosure material is ABS.

Technical Specifications

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M4 metal screws	
Enclosure installation	There are two Ø4.2 holes at the bottom of the base designed for enclosure installation (installation hole size and hole pitch dimension line are engraved outside the base)	
Internal component installation	XKA-1~5 components will be directly installed on the enclosure cover; no installation fixing pin on the base. Inside XJA-1~5 enclosures, the guide rail cannot be installed, for general wiring only.	
Material	PC (custom-made)	ABS (general)
Temperature range	-50° - +120 °	-40° - +80 °
Flame retardant rating	V_2	V_0
Protection class	IP65	

XKA Series Enclosure

XKA-1~5 Dimension Drawing

Model	External size and internal height dimension drawing	Schematic diagram of knock-off hole position	Enclosure installation hole size drawing
XKA-1 XJA-1 (without hole)			
XKA-2 XJA-2 (without hole)			
XKA-3 XJA-3 (without hole)			
XKA-4 XJA-4 (without hole)			
XKA-5 XJA-5 (without hole)			

Ordering Instruction

- XKA-1~5 and XJA-1~5 have the same external size. The only difference is that there are Ø22 holes on XKA-1~5 and XJA-1~5 do not have holes.
- When selecting model and ordering, please specify the model and accessory model directly; if only the model is given, goods of general types will be supplied.

XKB Series Enclosure

Empty enclosure with holes XKB-1~5

Empty enclosure without holes XJB-1~5 (Holes may be opened upon customer's requests)

Product Features

- 5 kinds of external sizes, 2 kinds of materials.
- Black base, grey cover.
- XKA-1~5 may be directly installed with LA39 pushbutton with a section of contact module, LW39-10 universal changeover (2 contacts) switch, LW39-16C universal changeover (2 contacts) switch, LW39-16B universal changeover (2 contacts) switch and AD16-22 series indicator lights.
- XJA-1~5 enclosures are free from wiring terminal, guide rail or fixing pin inside; they are for general wiring only.
- For horizontal installation, the pushbutton indicator light label frame may be equipped; for vertical installation, the pushbutton indicator light label frame may not be equipped.
- The general enclosure material is ABS.

Technical Specifications

| Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M6 nylon screws	
Enclosure installation	There are two elliptical holes (≥Ø4.5) at the bottom of the base designed for enclosure installation (installation hole and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the enclosure cover; there are two fixing pins with holes at the inner bottom of the base, suitable for ST4.8X9.5-F self-tapping screw installation.	
Material	PC (custom-made)	ABS (general)
Temperature range	-50° - $+120^o$	-40° - $+80^o$
Flame retardant rating	V_2	V_0
Protection class	IP65	

XKB Series Enclosure

XKB-1~4 Dimension Drawing

Model	External size and internal height dimension drawing	Schematic diagram of knock-off hole position	Enclosure installation hole size drawing
XKB-1 XJB-1 (without hole)			
XKB-2 XJB-2 (without hole)			
XKB-3 XJB-3 (without hole)			
XKB-4 XJB-4 (without hole)			
XKB-5 XJB-5 (without hole)			Enclosure installation size Guide rail installation size inside the enclosure

Ordering Instruction

- When selecting model and ordering, please specify the model and accessory model directly; if only the model is given, goods of general types will be supplied.
- XKB-1~5 and XJB-1~5 are the same except for the only difference that there are Ø22 holes on XKB-1~5 and XJB-1~5 do not have holes.

XKR Series Enclosure
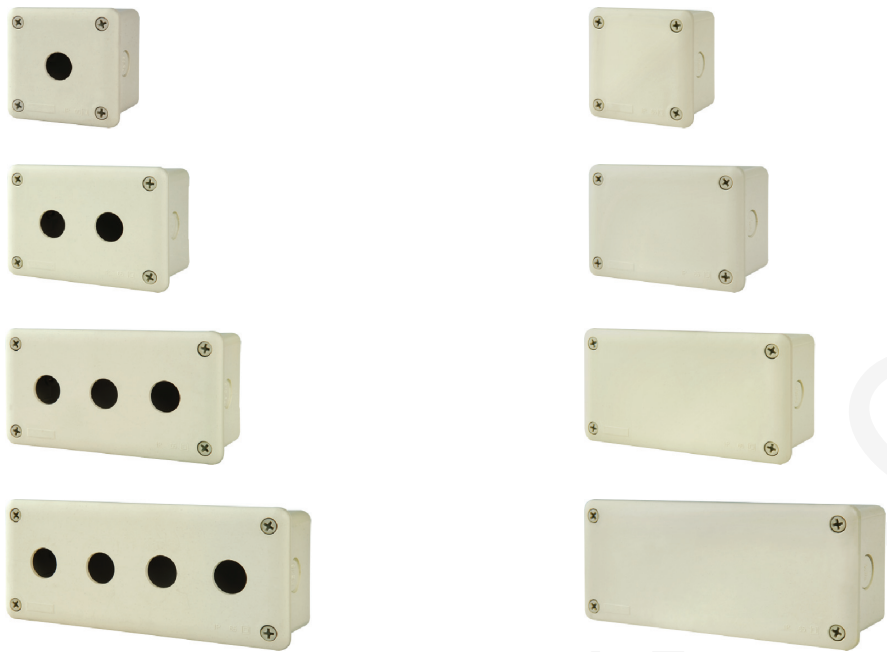
Empty enclosure with holes XKR-1~4

Empty enclosure without holes XJR-1~4 (Holes may be opened upon customer's requests)

Product Features

- 4 kinds of external sizes, 2 kinds of materials.
- Both the base and the cover are grey.
- It may be directly installed with LA39 pushbutton with a section of contact module, LW39-10 universal changeover (2 contacts) switch, LW39-16C universal changeover (2 contacts) switch, and AD16-22 series indicator lights.
- The pushbutton indicator light label frame may be equipped for XKR-1~4 no matter it is installed horizontally or vertically.
- XJR-1~4 is free from internal wiring terminal; a ⊥ shape TS35X7.5 (also known as TH35X7.5) guide rail may be selected for wiring terminal installation by the user.
- This series enclosures are suitable for embedded installation method.
- The general enclosure material is ABS.

Technical Specifications

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M6 nylon screws	
Enclosure installation	There are two elliptical holes (≥Ø4.5) at the bottom of the base designed for enclosure installation (installation hole and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the enclosure cover; there are two fixing pins with holes on the inner bottom of the base, suitable for ST4.8X9.5-F self-tapping screw installation.	
Material	PC (custom-made)	ABS (general)
Temperature range	-50° - +120 $^\circ$	-40° - +80 $^\circ$
Flame retardant rating	V_2	V_0
Protection class	IP65	

XKR Series Enclosure

XKR-1~4 Dimension Drawing

Model	External size and internal height dimension drawing	Schematic diagram of knock-off hole position	Enclosure installation hole size drawing
XKR-1 XJR-1 (without hole)			
XKR-2 XJR-2 (without hole)			
XKR-3 XJR-3 (without hole)			
XKR-4 XJR-4 (without hole)			

Ordering Instruction

• XKR-1~4 and XJR-1~4 are the same except for the only difference that there are Ø22 holes on XKR-1~4 and XJR-1~4 do not have holes.

• When selecting model and ordering, please specify the order number directly; if only the model is given, goods of general types will be supplied.

XK-6, XK-7, XK-8 Series Enclosure

(Photos of XK-6, XK-7, XK-8 empty enclosures)

Product Features

• For XK-6 made of ABS, the base is black and the cover is grey; for XK-7 and XK-8 made of ABS, both the base and the cover are grey. For XK-6, XK-7 and XK-8 made of PC, both the cover and the base are grey.

• After opening holes on the enclosure cover, they may be installed with LA39 series pushbuttons, AD16 series indicator lights, LW39 series cam switches produced by our company and multi-functional digital meters and pointer type electrical meters produced by other companies.

• For XK-6, it is unnecessary to open the cover when installing the enclosure which will be directly installed outside the enclosure; for XK-7 and XK-8 enclosure, the cover must be open for enclosure installation.

• The general enclosure material is ABS.

Technical Specifications

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M4 metal screws for XK-6, four M6 nylon screws for XK-7 and four M8 nylon screws for XK-8.	
Enclosure installation	There are four holes at the bottom of the base designed for enclosure installation (installation hole size and hole pitch dimension line are engraved outside the base) Four kidney shape holes ($\geq \varnothing$ 4.4) for XK-6, four kidney shape holes ($\geq \varnothing$ 5.5) for XK-7 and four kidney shape holes ($\geq \varnothing$ 5.8) for XK-8	
Internal component installation	Components will be directly installed on the enclosure cover. The inner bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail. XK-7 has four fixing pins with holes at the inner bottom of the base, suitable for ST4.8X9.5-F self-tapping screw installation. For XK-6 and XK-8, the mounting plate has been fixed by screws on the fixing pin.	
Material	PC (custom-made)	ABS (general)
Temperature range	-50° - +120 $^{\circ}$	-40° - +80 $^{\circ}$
Flame retardant rating	V_2	V_0
Protection class	IP65	

XK-6, XK-7, XK-8 Series Enclosure

XK-6, XK-7, XK-8 Dimension Drawing

Model	External size and internal height dimension drawing	Schematic diagram of knock-off hole position	Enclosure installation hole size drawing
XK-6 (with mounting plate inside) XKW-6 (without knock-off hole, with mounting plate inside)	Knock-off hole ∅22.8, Knock-off hole ∅37.5, 84, 12, 157, 36, 70, 92, 207	Pg16 Pg16, Pg16 Pg29 Pg16, Pg16 Pg29 Pg16, Pg16 Pg16	4-∅5.2, 142, 166
XK-7	Knock-off hole ∅22.8, 72, 10, 100, 35, 60, 80, 150	Pg21, Pg16 Pg16, Pg21	4-∅5.5, 85, 110
XK-8 (with mounting plate inside) XKW-8 (without knock-off hole, with mounting plate inside)	Knock-off hole ∅47.3, 130, 14, 220, 320, 100, 140	Pg16 Pg29 Pg21, Pg36 Pg36, Pg16 Pg29 Pg21	4-∅5.8, 202, 271

Ordering Instruction

- For XK-6 and XK-8 enclosures, when empty enclosures are ordered, the mounting plate will be supplied inside the enclosure. For XK-7 enclosure, mounting plate is not supplied.
- If you need to open holes on the enclosure cover, please select hole opening scheme number in examples given by us, or provide your enclosure cover hole opening drawing for processing.
- When selecting model and ordering, please specify the enclosure model, accessory model and hole opening scheme number. The absence of hole opening scheme number will be regarded as no hole opening requirement. If only the enclosure model is given, goods of general types will be supplied.

XK-6, XK-7, XK-8 Series Enclosure

XK-6, XK-7, XK-8 Hole Opening Scheme Examples

Scheme number	001	002	003	004	005	006	007	008
XK-6								
XK-7								
XK-8								

Note: hole opening methods may be required based on the scheme number, please specify when ordering goods.

XK-9 Enclosure

(Photo of XK-9 empty enclosure)

Product Features

- The enclosure is equipped with a transparent protective cover. The transparent protective cover and the enclosure may be locked to prevent misoperation. The protection class of the transparent protective cover is IP40.
- Material of the enclosure may be ABS or PC.
- Both the base and the cover are grey. The protective cover is in transparent black.
- To facilitate operation, the protective cover can be open to the left or right. Therefore, the plastic hinge may be installed on both sides of the enclosure.
- After opening holes on the enclosure cover under the transparent protective cover, they may be directly installed with LA39 series pushbuttons, AD16 series indicator lights, LW39 series cam switches produced by our company and multi-functional digital meters and pointer type electrical meters produced by other companies.
- Mounting plate is configured inside the enclosure. After opening holes on the mounting plate, the user may install various low voltage electrical apparatus elements such as relay, contactor, fuse, etc.
- When installing the enclosure, it is unnecessary to open the cover. Just directly install it outside the enclosure.
- Enclosure is installed in open type.
- The general enclosure material is ABS.

Technical Specifications

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M10 nylon screws	
Enclosure installation	There are four kidney shape holes ($\geq\varnothing$ 6.5) at the bottom of the base designed for enclosure installation (installation hole size and hole pitch dimension line are engraved outside the base)	
Internal component installation	Control and display components may be directly installed on the enclosure cover under the transparent protective cover; others may be installed on the mounting plate inside the enclosure.	
Material	PC (custom-made)	ABS (general)
Temperature range	-50° - $+120^\circ$	-40° - $+80^\circ$
Flame retardant rating	V_2	V_0
Protection class	IP 65 for enclosure; IP40 for transparent protective cover.	

XK-9 Enclosure

XK-9 Dimension Drawing

Model	External size and internal height dimension drawing	Schematic diagram of knock-off hole position	Enclosure installation hole size drawing
XK-9 (with mounting plate inside)			

Ordering Instruction

• When ordering an empty enclosure, the mounting plate is equipped inside. If you need to open holes on the enclosure cover, please select hole opening scheme number in the examples given by us, or provide your enclosure cover hole opening drawing for processing. When selecting model and ordering, please specify the enclosure model and accessory model directly. If only the enclosure model is given, goods of general types will be supplied.

XK-9 Hole Opening Scheme Examples

Scheme number	001	002	003	004	005	006
XK-9						

XK-9 Enclosure

XK-9 Enclosure Assembly Schematic Diagram

XK-10 Enclosure

(Photo of XK-10 empty enclosure)

Product Features

- Material of the enclosure may be ABS or PC.
- Both the base and the cover are grey.
- After opening holes on the enclosure cover, they may be directly installed with LA39 series pushbuttons, AD16 series indicator lights, LW39 series cam switches produced by our company and multi-functional digital meters and pointer type electrical meters produced by other companies.
- Mounting plate is configured inside the enclosure. After opening holes on the mounting plate, the user may install various low voltage electrical apparatus elements such as relay, contactor, fuse, etc.
- A ⊔ shape TS35X7.5 (also known as TH35X7.5) guide rail may be installed inside the enclosure.
- The general enclosure material is ABS.

Technical Specifications

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M10 nylon screws	
Enclosure installation	There are four kidney shape holes ($\geq \varnothing 6.5$) at the bottom of the base designed for enclosure installation (installation hole size and hole pitch dimension line are engraved outside the base)	
Internal component installation	Control and display components may be directly installed on the enclosure cover; others may be installed on the mounting plate inside the enclosure.	
Material	PC (custom-made)	ABS (general)
Temperature range	-50° - $+120^{\circ}$	-40° - $+80^{\circ}$
Flame retardant rating	V_2	V_0
Protection class	IP65	

XK-10 Enclosure

XK-10 Dimension Drawing

Model	External size and internal height dimension drawing	Schematic diagram of knock-off hole position	Enclosure installation hole size drawing
XK-10 (with mounting plate inside) XKW-10 (without knock-off hole, with mounting plate inside)			

Ordering Instruction

• When ordering an empty enclosure, the mounting plate is equipped inside. If you need to open holes on the enclosure cover, please select hole opening scheme number in the examples given by us, or provide your enclosure cover hole opening drawing for processing. When selecting model and ordering, please specify the enclosure model and accessory model directly. If only the enclosure model is given, goods of general types will be supplied.

XK-10 Hole Opening Scheme Examples

Scheme number	001	002	003	004	005	006	007	008
XK-10								

XK-11, XK-12 Series Enclosure

XK-11 empty enclosure
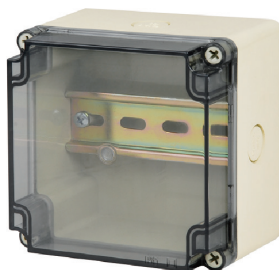
XK-11T transparent cover with guide rail

XK-12 empty enclosure
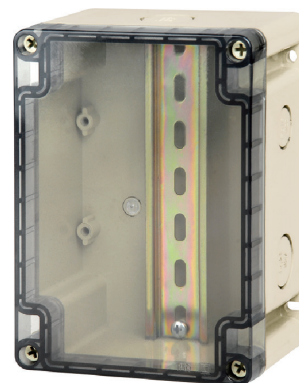
XK-12T transparent cover with guide rail

Product Features
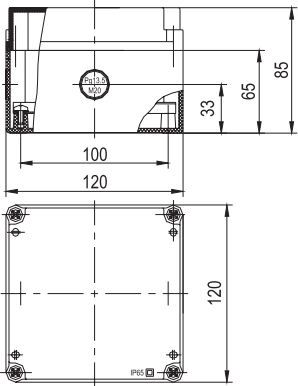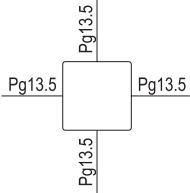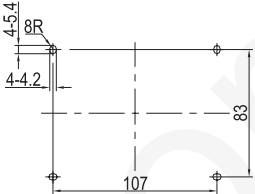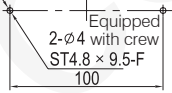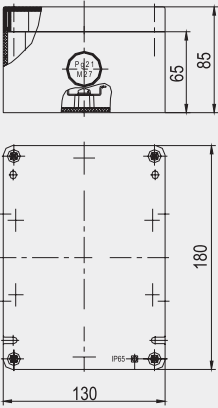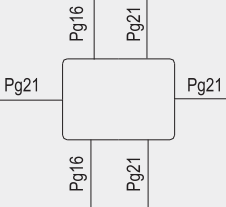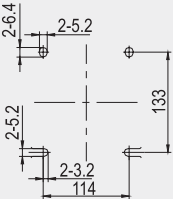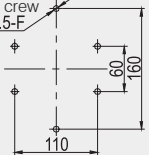
- 2 kinds of external sizes, 2 kinds of materials.
- Material of the enclosure may be ABS or PC.
- For general types of enclosure, both the base and the cover are grey.
- After opening holes on the enclosure cover, they may be directly installed with LA39 series pushbuttons, AD16 series indicator lights, LW39 series cam switches produced by our company and multi-functional digital meters and pointer type electrical meters produced by other companies.
- A ⊥ shape TS35X7.5 (also known as TH35X7.5) guide rail may be installed inside the enclosure.
- This series enclosures are suitable for embedded installation method.
- The general enclosure material is ABS; to purchase PC material, please add "-PC" behind the model, such as XK-11T-PC.

Technical Specifications

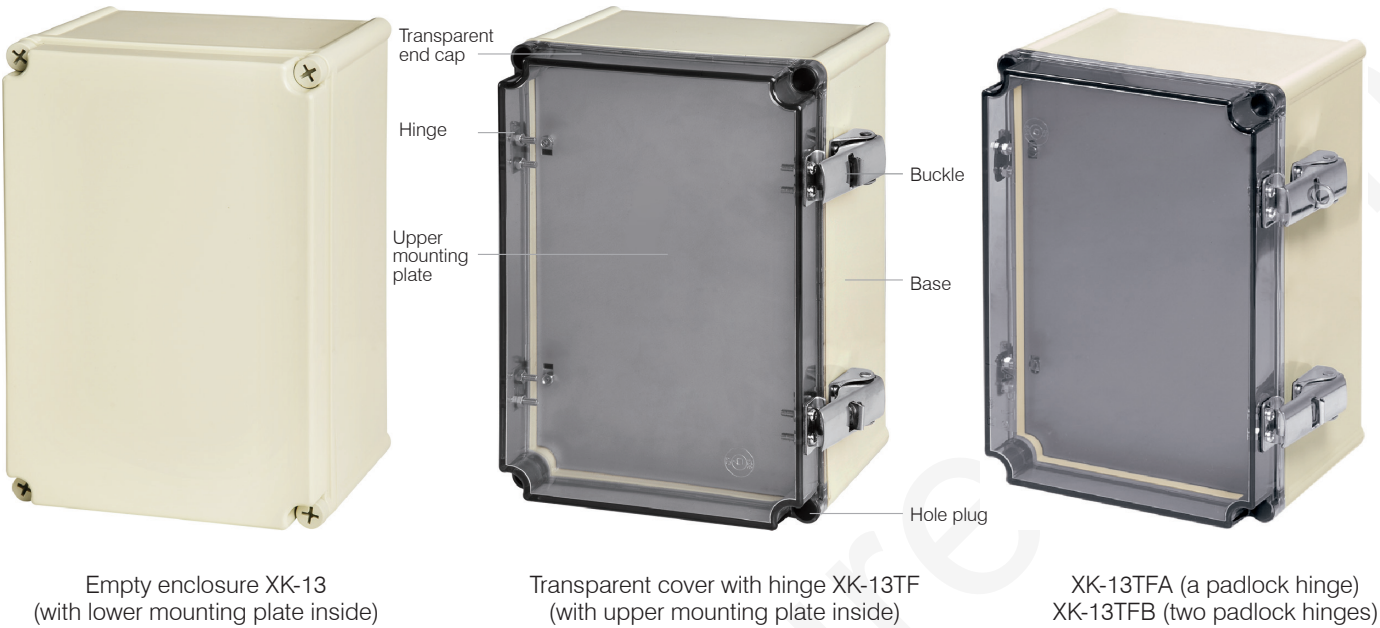| Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M6 nylon screws	
Enclosure installation	There are 4 holes on the bottom of the base for enclosure installation; for XK-11, there are four kidney shape holes ($\geq \varnothing 4.2$); for XK-12, there are four kidney shape holes ($\geq \varnothing 5.2$).	
Internal component installation	Control and display components may be directly installed on the enclosure cover; there are two or six fixing pins with holes at the inner bottom of the base, suitable for ST4.8X9.5-F self-tapping screw installation.	
Material	PC (specify when ordering)	ABS (general)
Temperature range	-50° - $+120^{o}$	-40° - $+80^{o}$
Flame retardant rating	V_2	V_0
Protection class	IP65	

XK-11, XK-12 Dimension Drawing

| Model	External size and internal height dimension drawing	Schematic diagram of knock-off hole position	Enclosure installation hole size drawing
XK-11			 Enclosure installation size Guide rail installation size inside the enclosure
XK-12 XKW-12 (without knock-off hole)			 Enclosure installation size Guide rail installation size inside the enclosure

Ordering Instruction

- When ordering empty enclosures, please provide your drawing of hole opening on the enclosure cover to facilitate the processing.
- When selecting model and ordering, please directly specify the enclosure model and the accessory model. If only the enclosure model is given, goods of general types will be supplied.

XK-13 Enclosure

Empty enclosure XK-13
(with lower mounting plate inside)

Transparent cover with hinge XK-13TF
(with upper mounting plate inside)

XK-13TFA (a padlock hinge)
XK-13TFB (two padlock hinges)

Labels: Transparent end cap, Hinge, Upper mounting plate, Buckle, Base, Hole plug

Product Features

- 1 kind of external size, 2 kinds of materials.
- Material of the enclosure may be ABS or PC.
- For general types of enclosure, both the base and the cover are grey.
- After opening holes on the enclosure cover, they may be directly installed with LA39 series pushbuttons, AD16 series indicator lights, LW39 series cam switches produced by our company and multi-functional digital meters and pointer type electrical meters produced by other companies.
- One or two ⊥ shape TS35X7.5 (also known as TH35X7.5) guide rails may be installed inside the enclosure.
- The general enclosure material is ABS; to purchase PC material, please add "-PC" behind the model, such as XK-13-PC.

Technical Specifications

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M10 nylon screws	
Enclosure installation	There are four kidney shape holes (≥Ø4.3) at the bottom of the base designed for enclosure installation (installation hole size and hole pitch dimension line are engraved outside the base)	
Internal component installation	Control and display components may be directly installed on the enclosure cover; others may be installed on the mounting plate inside the enclosure.	
Material	PC (specify when ordering)	ABS (general)
Temperature range	-50° - $+120^{\circ}$	-40° - $+80^{\circ}$
Flame retardant rating	V_2	V_0
Protection class	IP65	

XK-13 Enclosure

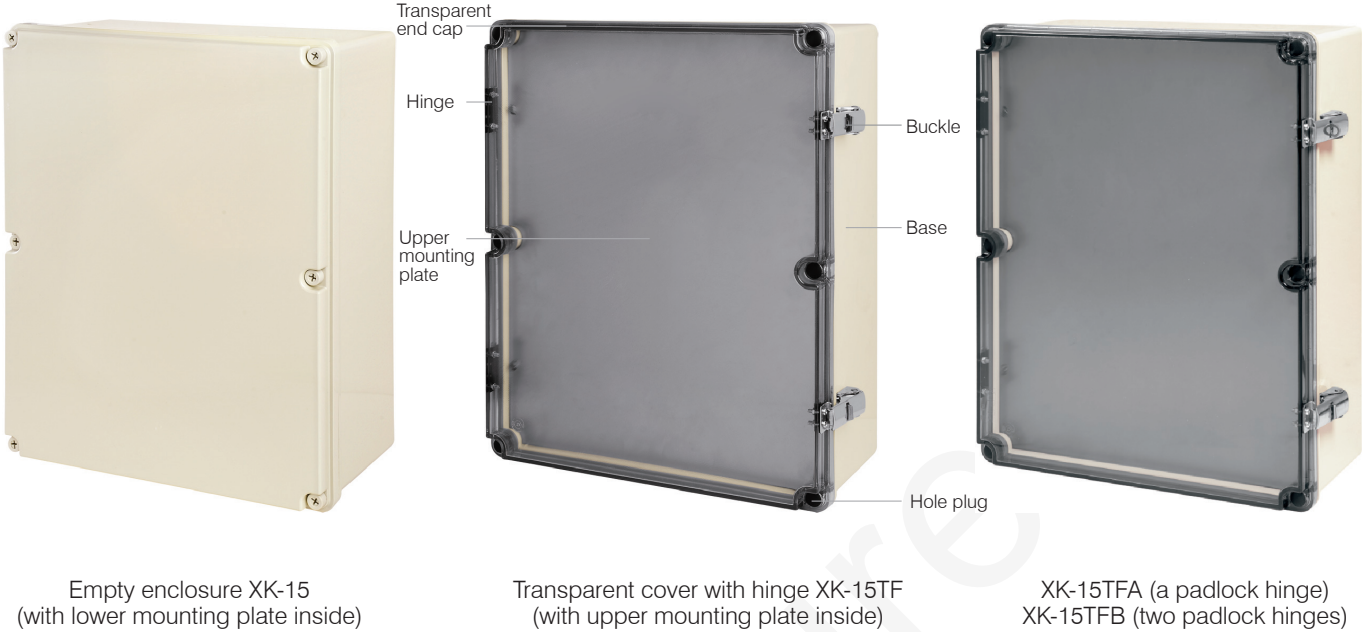## XK-13 Dimension Drawing

Model	External size and internal height dimension drawing	Enclosure installation hole size drawing
XK-13		

Ordering Instruction

- When ordering empty enclosures, please provide your drawing for hole opening on the enclosure cover to facilitate the processing. This enclosure does not have knock-off hole.
- When selecting model and ordering, please directly specify the enclosure model and the accessory model. If only the enclosure model is given, goods of general types will be supplied.

XK-14 Enclosure

Empty enclosure XK-14
(with lower mounting plate inside)

Transparent cover with hinge XK-14TF
(with upper mounting plate inside)

XK-14TFA (a padlock hinge)
XK-14TFB (two padlock hinges)
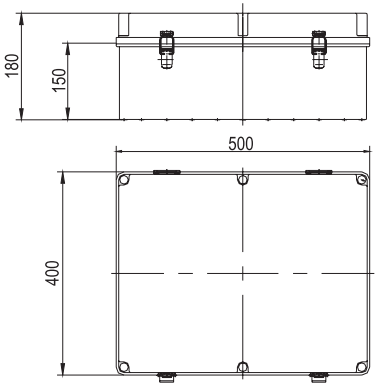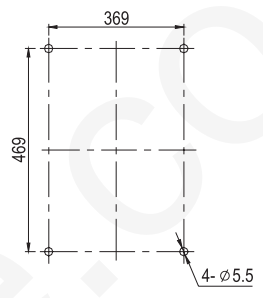
Product Features

- 1 kind of external size, 2 kinds of materials.
- Material of the enclosure may be ABS or PC.
- For general types of enclosure, both the base and the cover are grey.
- After opening holes on the enclosure cover, they may be directly installed with LA39 series pushbuttons, AD16 series indicator lights, LW39 series cam switches produced by our company and multi-functional digital meters and pointer type electrical meters produced by other companies.
- One or more ⊥ shape TS35X7.5 (also known as TH35X7.5) guide rails may be installed inside the enclosure.
- The general enclosure material is ABS; to purchase PC material, please add "-PC" behind the model, such as XK-14-PC.

Technical Specifications

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M12 nylon screws	
Enclosure installation	There are four kidney shape holes ($\geq$Ø5.5) at the bottom of the base designed for enclosure installation (installation hole size and hole pitch dimension line are engraved outside the base)	
Internal component installation	Control and display components may be directly installed on the enclosure cover; others may be installed on the mounting plate inside the enclosure.	
Material	PC (specify when ordering)	ABS (general)
Temperature range	-50° - +120°	-40° - +80°
Flame retardant rating	V_2	V_0
Protection class	IP65	

XK-14 Enclosure

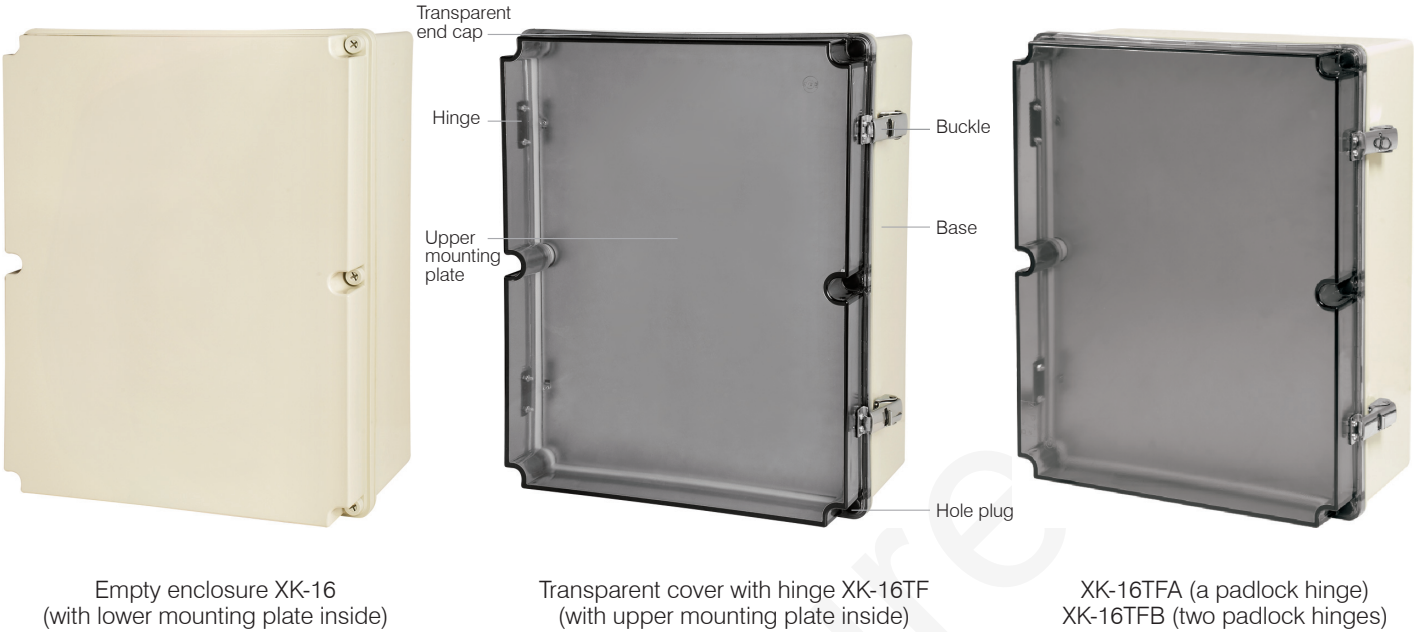## XK-14 Dimension Drawing

Model	External size and internal height dimension drawing	Enclosure installation hole size drawing
XK-14	175 125 270 370	243 343 4-⌀5.5

Ordering Instruction

• When ordering empty enclosures, please provide your drawing for hole opening on the enclosure cover to facilitate the processing. This enclosure does not have knock-off hole.

• When selecting model and ordering, please directly specify the enclosure model and the accessory model. If only the enclosure model is given, goods of general types will be supplied.

XK-15 Control Cabinet

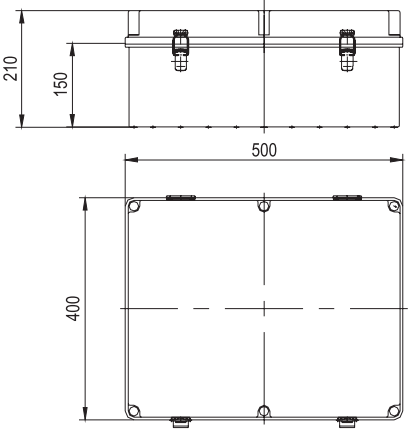|		
Transparent end cap	Hinge	Upper mounting plate
Buckle	Base	Hole plug

Empty enclosure XK-15
(with lower mounting plate inside)

Transparent cover with hinge XK-15TF
(with upper mounting plate inside)

XK-15TFA (a padlock hinge)
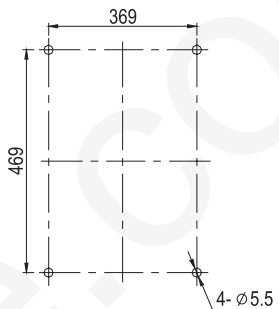XK-15TFB (two padlock hinges)

Product Features

- 1 kind of external size, 2 kinds of materials.
- Material of the enclosure may be ABS or PC.
- For general types of enclosure, both the base and the cover are grey.
- After opening holes on the enclosure cover, they may be directly installed with LA39 series pushbuttons, AD16 series indicator lights, LW39 series cam switches produced by our company and multi-functional digital meters and pointer type electrical meters produced by other companies.
- One or more ⊥ shape TS35X7.5 (also known as TH35X7.5) guide rails may be installed inside the enclosure.
- The general enclosure material is ABS; to purchase PC material, please add "-PC" behind the model, such as XK-15-PC.

Technical Specifications

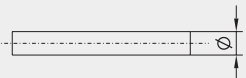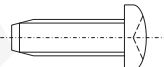|		
Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M12 nylon screws	
Enclosure installation	There are four kidney shape holes ($\geq \varnothing$ 5.5) at the bottom of the base designed for enclosure installation (installation hole size and hole pitch dimension line are engraved outside the base)	
Internal component installation	Control and display components may be directly installed on the enclosure cover; others may be installed on the mounting plate inside the enclosure.	
Material	PC (specify when ordering)	ABS (general)
Temperature range	-50° - +120 $^{\circ}$	-40° - +80 $^{\circ}$
Flame retardant rating	V$_2$	V$_0$
Protection class	IP65	

XK-15 Enclosure

XK-15 Dimension Drawing

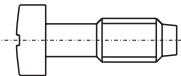| Model	External size and internal height dimension drawing	Enclosure installation hole size drawing
XK-15	180 150 500 400	369 469 4-∅5.5

Ordering Instruction

- When ordering empty enclosures, please provide your drawing for hole opening on the enclosure cover to facilitate the processing. This enclosure does not have knock-off hole.
- When selecting model and ordering, please directly specify the enclosure model and the accessory model. If only the enclosure model is given, goods of general types will be supplied.

XK-16 Control Cabinet

Empty enclosure XK-16
(with lower mounting plate inside)

Transparent cover with hinge XK-16TF
(with upper mounting plate inside)

XK-16TFA (a padlock hinge)
XK-16TFB (two padlock hinges)

Product Features

- 1 kind of external size, 2 kinds of materials.
- Material of the enclosure may be ABS or PC.
- For general types of enclosure, both the base and the cover are grey.
- After opening holes on the enclosure cover, they may be directly installed with LA39 series pushbuttons, AD16 series indicator lights, LW39 series cam switches produced by our company and multi-functional digital meters and pointer type electrical meters produced by other companies.
- One or more ⊤⊥⊤ shape TS35X7.5 (also known as TH35X7.5) guide rails may be installed inside the enclosure.
- The general enclosure material is ABS; to purchase PC material, please add "-PC" behind the model, such as XK-16-PC.

Technical Specifications

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M12 nylon screws	
Enclosure installation	There are four kidney shape holes ($\geq \varnothing 5.5$) at the bottom of the base designed for enclosure installation (installation hole size and hole pitch dimension line are engraved outside the base)	
Internal component installation	Control and display components may be directly installed on the enclosure cover; others may be installed on the mounting plate inside the enclosure.	
Material	PC (specify when ordering)	ABS (general)
Temperature range	$-50^{\circ} - +120^{\circ}$	$-40^{\circ} - +80^{\circ}$
Flame retardant rating	V_2	V_0
Protection class	IP65	

XK-16 Enclosure
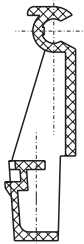
XK-16 Dimension Drawing

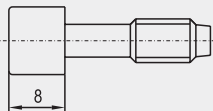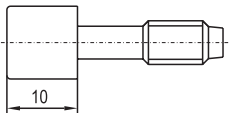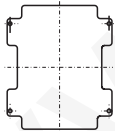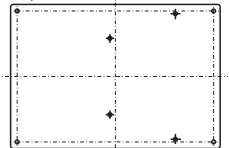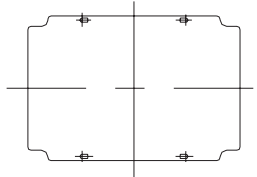| Model	External size and internal height dimension drawing	Enclosure installation hole size drawing
XK-16		

Ordering Instruction

• When ordering empty enclosures, please provide your drawing for hole opening on the enclosure cover to facilitate the processing. This enclosure does not have knock-off hole.

• When selecting model and ordering, please directly specify the enclosure model and the accessory model. If only the enclosure model is given, goods of general types will be supplied.
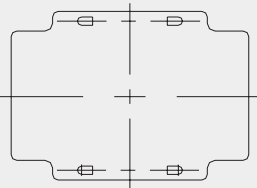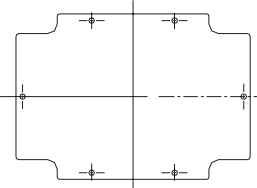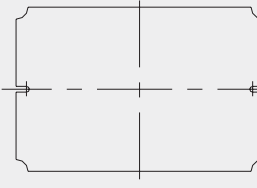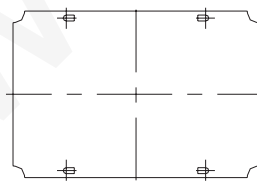
Accessory

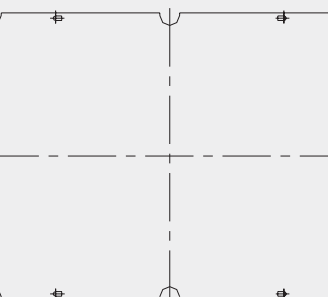| Name & photo (or sketch)	Model	Material	Size	Applicable product
Hinge	19F-01	19F-01	54×16×24	XK-9
	19F-02	19F-02	44×16×24	XM-12
Operating window (maintenance box)	19F-03	Base: ABS Transparent cover: PC	246×94×52	XX (maintenance box)
Guide rail TS35×7.5(TH35×7.5)	19F-04	19F-04	Length: 1000/pc	XJR-1 ～ 4, XJB-1 ～ 4, XJ-5 ～ 10, XX, XM-9 ～ 24
Sealant tape (wearing part)	19F-05	Silicon sponge sealant tape	Ø 2.5	XKA-1 ～ 5, XKB-1 ～ 4 XKR-1 ～ 4, XJA-1 ～ 5 XJB-1 ～ 4, XJR-1 ～ 4
	19F-06	Silicon sponge sealant tape	Ø 3	XK-7, XL-7
	19F-07	Silicon sponge sealant tape	Ø 3.5	XK-8, XL-8
	19F-08	Silicon sponge sealant tape	Ø 4	XK-9, XK-10, XJ-10, XX
	19F-09	Silicon sponge sealant tape	Ø 4.5	XM-9, XM-12, XM-24
Cross recessed pan head self-tapping screw GB845	19F-10	Q235	ST4.8×9.5-F	XKB-1 ～ 4, XKR-1 ～ 4, XK-7 XJB-1 ～ 4, XJR-1 ～ 4, XJ -7
	19F-11	Q235	ST6.3×13-F	XK-8, XJ-8
	19F-12	Q235	ST6.3×16-F	XM-9, XM-12, XM-24, XK-9, XK-10, XJ-10, XX
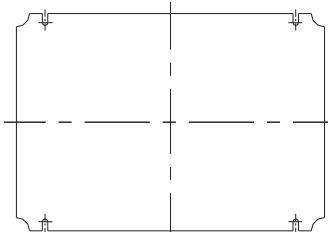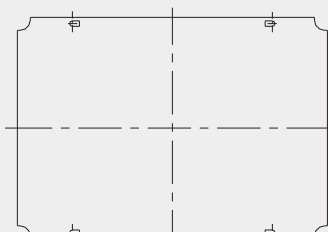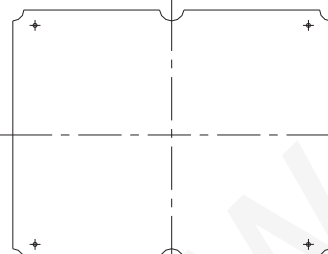
Accessory

Name & photo (or sketch)	Model	Material	Size	Applicable product
Screw (spherical pan head cross recess)	19F-16	Nylon	M6×18	XKR-1 ～ 5, XJR-1 ～ 5
Screw (cylinder head cross recess)	19F-17	Nylon	M6×20	XKB-1 ～ 4, XJB1 ～ 4
Screw (cylinder head cross recess)	19F-18	Nylon	M6×20	XK-7, XJ-7
Screw (cylinder head cross recess)	19F-19	Nylon	M8×27	XK-8, XJ-8, XM-9, XM-12
	19F-20	Nylon	M10×31	XK-9, XK-10, XJ-10, XX
Bottom plate (used inside the enclosure)	19F-13	Q235	170×144	XK-6
Bottom plate (used inside the enclosure)	19F-14	Q235	250×186	XK-8
Bottom plate (used inside the enclosure)	19F-15	Q235	384×264	XK-9, XK-10, XX

Accessory

Name & photo (or sketch)	Model	Material	Size	Applicable product
Upper mounting plate	19F-24	Q235	307×209	XK-8
Upper mounting plate	19F-25	Q235	171.8×121.8	XK-12
Lower mounting plate	19F-26	Q235	169×110	XK-12
Lower mounting plate	19F-28	Q235	238×158	XK-13
Upper mounting plate	19F-29	Q235	247×166	XK-13
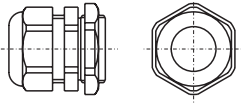
Accessory

Name & photo (or sketch)	Model	Material	Size	Applicable product
Lower mounting plate	19F-32	Q235	338×238	XK-14
Upper mounting plate	19F-33	Q235	349×249	XK-14
Lower mounting plate	19F-34 PH13	Q235	465×365	XK-15, XK-16
Upper mounting plate	19F-35 PH10	Q235	474×374	XK-15, XK-16

Accessory

Name & photo (or sketch)	Model	Material	Size	Applicable product
Supporting plate	19F-27	Q235	24×14×11.5	XK-8, XK-12, XK-13, XK-14, XK-15, XK-16
Big hole plug	19F-30 PH13	ABS	Ø 13	XK-14, XK-16, XK-15
Small hole plug	19F-31 PH10	ABS	Ø 10	XK-8, XK-12, XK-13, XK-10
Extension frame	XK-14-F50	ABS	270×370×50	XK-14
Extension frame	XK-16-F65	ABS	400×500×65	XK-15, XK-16

Accessory

Name & photo (or sketch)	Model	Specification	Material
Waterproof joint of the cable	19F-21	pg13.5	Main part: Nylon; Sealing element: BNR
	19F-22	pg16	
	19F-23	pg21	
	19F-24	pg29	
	19F-25	pg36	

Nylon cable waterproof clamp joint size figure
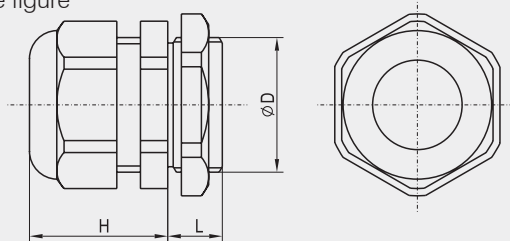
Model Ordinary pg thread	Bayonet range mm	ØD mm	L mm	H mm	Model Ordinary pg thread	Bayonet range mm	ØD mm	L mm	H mm
HSK-P, pg7	3 ～ 6.5	12.5	8	20	HSK-P, pg21	13 ～ 18	28.3	11	30
HSK-P, pg9	4 ～ 8	15.2	8	22	HSK-P, pg29	18 ～ 25	37	11	38
HSK-P, pg11	5 ～ 10	18.6	8	24	HSK-P, pg36	22 ～ 32	47	13	45
HSK-P, pg13.5	6 ～ 12	20.4	9	27	HSK-P, pg42	32 ～ 38	54	13	47
HSK-P, pg16	10 ～ 14	22.5	10	28	HSK-P, pg48	37 ～ 44	59.3	14	47