

**Control Cabinet / Maintenance Box / Lighting Box**  
**XK Series / XX Series / XM Series**

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# XK Series Control Cabinet / XX Series Maintenance Box / XM Series Lighting Box

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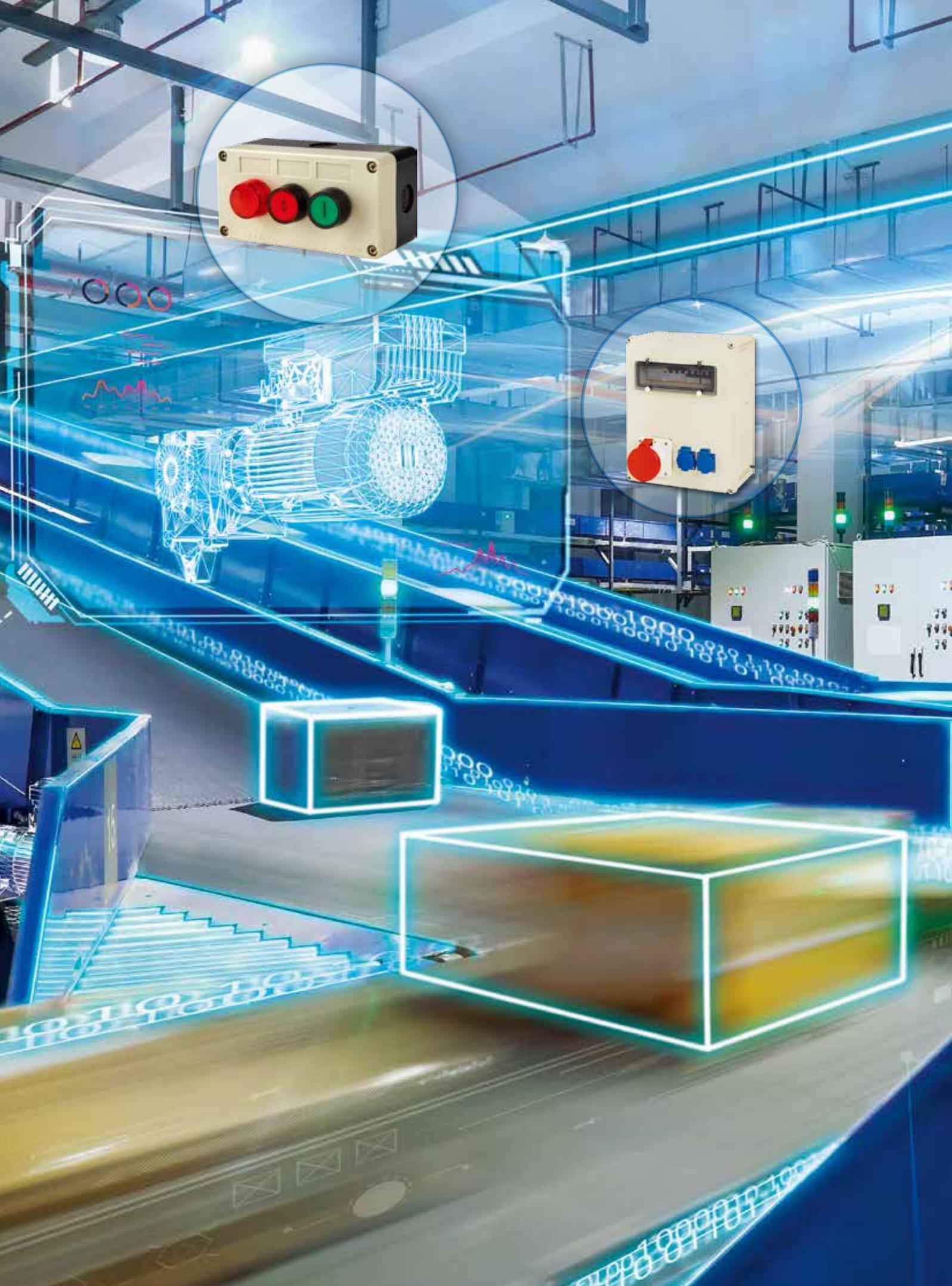
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# APT

**Control Cabinet / Maintenance  
Box / Lighting Box**

XK Series / XX Series / XM Series

CCC CE RoHS



## Company Profile

APT has been established in 1993. Today it is now a Chinese leading manufacturer of low-voltage components and has been specialized in the manufacturing of low voltage products such as pushbuttons, indicators, cam switches and general-purpose relays. In August 2008, Siemens Electrical Apparatus Ltd. Suzhou (hereinafter referred to as “Siemens”) made the wholly-owned acquisition of APT, putting the APT brand and related products under the operation of Siemens. With unified quality control and R&D resources of Siemens, APT focuses on manufacturing pushbuttons, indicators and other important low-voltage products such as tower lights, control cabinets, combined lights, current transformers and limit switches etc.

Through over 20 years of promotion and application, the APT products have been widely serving dozens of industrial fields in China including power, energy, rail transit, elevator, logistics, machine tool, etc. They have been successively selected and applied in Qinshan Nuclear Power Plant, the Three Gorges Project, Shenzhou V Spacecraft, Qinghai-Tibet Railway locomotives, “Harmony” Electric Multiple Unit, “Fuxing” Electric Multiple Unit, international airports and urban metros and have become the preferred brand for national key projects. At the same time, Siemens gives full play to its international operation experience to continuously enhance the management and business development of APT and better serve the Chinese market through advanced technology and improved product line.



## **XK / XX/ XM Series Description**

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## **XK Series Control Cabinet**

XK-(A/B/C/6/7/8/9/10/11/12/13/14/15/16) Series

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## **XX Series Maintenance Box**

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## **XM Series Lighting Box**

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## **Accessories**

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### ◎ Protection class IP

IP grading reflects the ability of the enclosure to resist solid substances and liquid by two digits. It is suitable for all products.

The 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 a diameter more than 50mm	1	Prevent vertically dropping water, allow the entry of a small amount of water
2	Prevent the entry of spherical objects with a diameter more than 12mm	2	Prevent dripping water with inclination less than 15°, allow the entry of a small amount of water
3	Prevent the entry of objects with a diameter more than 2.5mm	3	Prevent sprinkling water with inclination less than 60°, allow the entry of a small amount of water
4	Prevent the entry of objects with a diameter more than 1.2mm	4	Prevent splashing water from any direction, allow the entry of a small amount of water
5	Allow limited dust to enter (without harmful deposition)	5	Prevent spray water, allow the entry of a small amount of water
6	Completely prevent the entry of dust	6	Prevent strong spray water, allow the entry of a small amount of water
		7	Prevent the influence by water immersion of 15mm - 1m depth
		8	Prevent long-term water immersion under pressure

### ◎ Selection of operating environment

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

Item content	Product series	Min. temperature (°C)	Max. continuous temperature (°C)	Flame retardant rating	Halogen-free	Cadmium-free
Material: PC	XK	-50	+115	V <sub>2</sub>	Yes	Yes
	XX	-50	+115	V <sub>2</sub>	Yes	Yes
	XM	-50	+115	V <sub>2</sub>	Yes	Yes
Material: ABS	XK	-40	+70	V <sub>0</sub>	Yes	Yes
	XX	-40	+70	V <sub>0</sub>	Yes	Yes
	XM	-40	+70	V <sub>0</sub>	Yes	Yes

Item content	Chemical resistance performance	Anti-UV performance	Resistance to seawater corrosion	Surface resistivity (Ω)	Impact resistance J	Protection class IP
Material: PC	Good	Good	Very good	10 <sup>14</sup>	6	65
	Good	Good	Very good	10 <sup>14</sup>	6	54
	Good	Good	Very good	10 <sup>14</sup>	6	44
Material: ABS	Good	Ordinary	Very good	10 <sup>14</sup>	5	65
	Good	Ordinary	Very good	10 <sup>14</sup>	5	54
	Good	Ordinary	Very good	10 <sup>14</sup>	5	44

### ◎ Meaning of flame retardant rating (Flame-retardant rating and its meaning)

V<sub>0</sub>: <10s residual flame, <30s ash fire, no combustion particles, the bar may not be fully burnt.

V<sub>2</sub>: <30s residual flame, <30s ash fire, with combustion particles, the bar may not be fully burnt.

## Order code description

X □ – □ □ / □ – □ □ □ – □ – □  
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

### ① Control cabinet order code

### ② Purpose code (see the table below)

Purpose description	Control cabinet purpose	Maintenance box purpose	Light box purpose
Purpose code	K	X	M

### ③ Primary specification code (see the table below)

Primary specification code applicable for control cabinet purpose					
Primary specification code	A	B	C	6	7
Primary specification dimensions	L×72.5×58.5	L×80×85	L×90×64	207×157×92	150×100×80
Primary specification code	8	9	10	11	12
Primary specification dimensions	320×220×140	420×320×225	420×320×170	120×120×85	180×130×85
Primary specification code	13	14	15	16	
Primary specification dimensions	260×180×150	370×270×175	500×400×180	500×400×210	

Primary specification code applicable for lighting box purpose					
Primary specification code	9	12	24		
Primary specification dimensions	280×227×125	315×297×125	630×297×125		

Note: when the primary specification code is A, B or C, the primary specification dimension L is selected as per the requirements in auxiliary specification codes

### ④ Auxiliary specification code (see the table below)

Corresponding auxiliary specification code when the primary specification code is “A”					
Auxiliary specification code	1	2	3	4	5
Dimension “L” in the primary specification	72.5	105.5	138.5	171.5	204.5

Corresponding auxiliary specification code when the primary specification code is “B”					
Auxiliary specification code	1	2	3	4	5
Dimension “L” in the primary specification	80	120	160	200	250

Corresponding auxiliary specification code when the primary specification code is “C”					
Auxiliary specification code	1	2	3	4	
Dimension “L” in the primary specification	90	130	170	210	

Note

# DESCRIPTION **XK / XX / XM**

series CONTROL CABINET / MAINTENANCE BOX / LIGHTING BOX

## ⑤ Color code

- The default color of the end cap is grey and the end cap will be provided in default color if not marked;
- The default color of the base of XK-A series is black and that of other series is grey; the base will be provided in default color if not marked;
- The end cap or base in other colors can be customized as required; the color code is as below:

Code description	Yellow	Transparent	Black
Color code	h	t	k

## ⑥ Function code

If no function code is marked, it indicates an ordinary control cabinet (only including necessary accessories such as end cap, base, screw etc.); other codes are as below:

Function code	Code description	Applicable scope of function code
W	No knockout	XK-6series XK-8series XK-9series XK-10series XK-12series
D	With upper mounting plate	XK-13series XK-14series XK-15series XK-16series
P	With lower mounting plate	XK-6series XK-8series XK-9series XK-10series XK-13series XK-14series XK-15series XK-16series
J	With guide rail	Applicable for all order codes except for XK-A, XK-15 and XK-16 series
F	Flip (with hinge)	XK-13series XK-14series XK-15series XK-16series
S	Flap (the mounting plate can be turned over)	XK-13series XK-14series XK-15series XK-16series
A	Standard buckle	XK-13series XK-14series XK-15series XK-16series
B	1 standard buckle and 1 padlock buckle	XK-13series XK-14series XK-15series XK-16series
C	2 padlock buckles	XK-13series XK-14series XK-15series XK-16series

- Different function codes can be combined together to form a new function code, but they shall be arranged as per the above table from up to down.
- Some function codes in above table cannot coexist in the same order code, such as “P” and “J” cannot coexist, “A”, “B” and “C” cannot coexist.
- Function codes “A”, “B” and “C” shall be used together with “F”, otherwise they are meaningless.
- Function code “S” shall be used together with “D”, otherwise it is meaningless.
- Bases of XK-A, XK-B, XK-C, XK-7, and XK-11 series control cabinets have knockout, but those of XK-13, XK-14, XK-15 and XK-16 series don't.

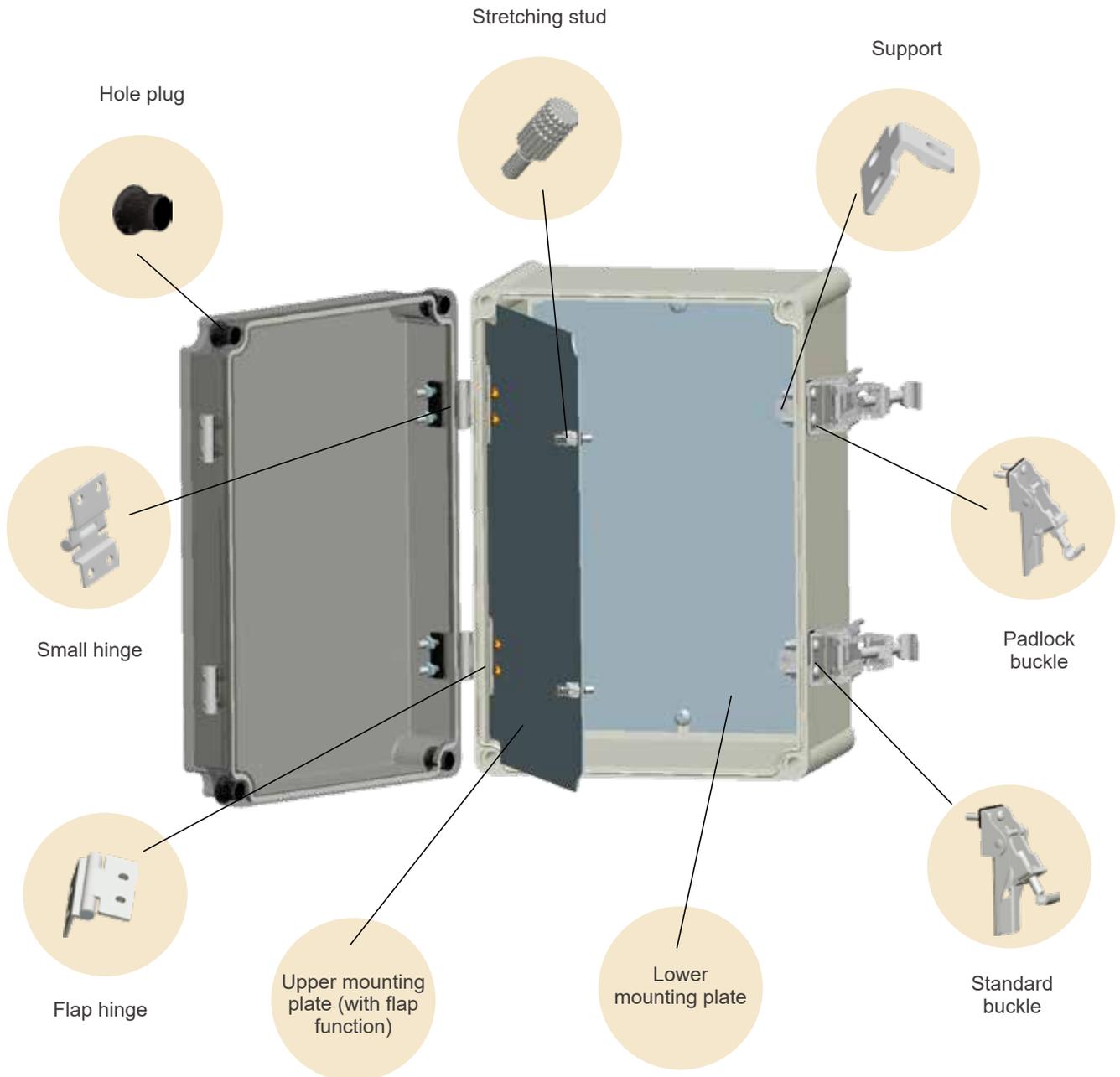
## ⑦ Hole code

“Y” indicates that the enclosure of control cabinet shall have a hole; “N” indicates that no hole is needed on the enclosure of control cabinet.

## ⑧ Auxiliary code (different codes are separately from each other with “-”)

- No marking: supply based on normal order code
- With marking: marked as required, the marked code is composed of 2-10 numbers and/or letters, for marking supply information

Note



**Note**

# APT



## XK Series Control Cabinet

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### Product feature

- Multiple dimensions, 2 kinds of materials.
- Protection class IP65.
- Holes can be customized based on customer requirements.
- Rich accessories are optional for customers to meet their different use demands.

XX



## ◎ XK-A order code selection

Order code	Configuration				
	Number of round holes	Black base	Upper cover color		Guide rail
			Yellow	Grey	
XK-A1/h-Y	1	√	√		
XK-A1/-Y	1	√		√	
XK-A1/-N	0	√		√	
XK-A2/h-Y	2	√	√		
XK-A2/-Y	2	√		√	
XK-A2/-N	0	√		√	
XK-A3/-Y	3	√		√	
XK-A3/-N	0	√		√	
XK-A4/-Y	4	√		√	
XK-A4/-N	0	√		√	
XK-A5/-Y	5	√		√	
XK-A5/-N	0	√		√	

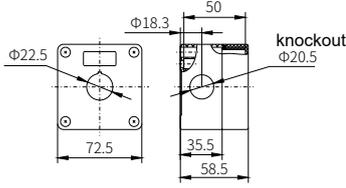
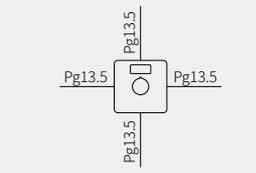
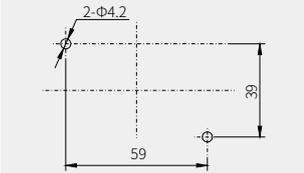
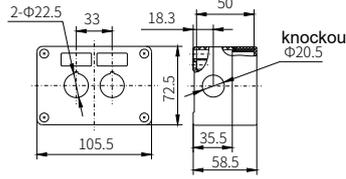
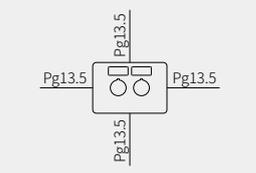
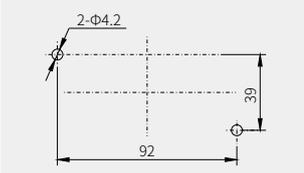
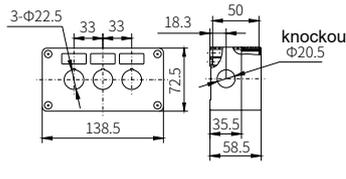
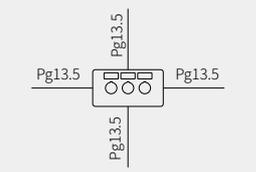
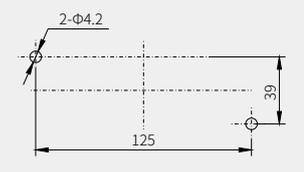
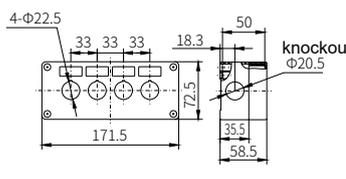
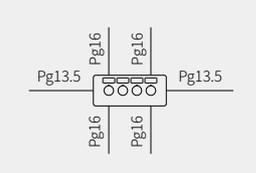
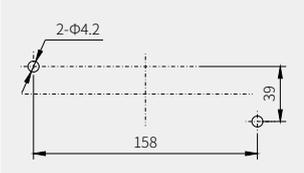
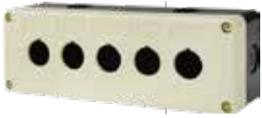
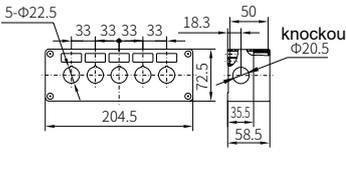
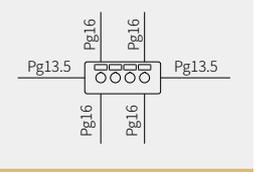
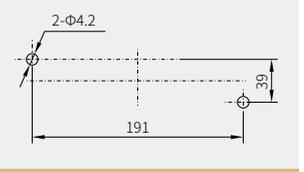
Note: number indicates corresponding hole quantity, √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## ◎ Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M4 metal screws	
Enclosure installation	There are two Ø 4.2 holes at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover; no installation fixing pin on the base. Inside the cabinet, the guide rail cannot be installed, for general wiring only.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension

**XK-A series**

				<b>XK-A1</b>
				<b>XK-A2</b>
				<b>XK-A3</b>
				<b>XK-A4</b>
				<b>XK-A5</b>

## Product feature

- 5 kinds of dimensions, 2 kinds of materials.
- Black base, grey cover.
- XK-A series may be installed with LA39 pushbutton with a section of contact module, LW39-10 cam switch (2 pairs of contacts), LW39-16B cam switch (2 pairs of contacts, positioning type; except for XK-A1) and AD16-22 series indicators.
- For horizontal installation, the pushbutton indicator signage frame may be equipped; for vertical installation, the pushbutton indicator signage frame may not be equipped.

## ◎ XK-B order code selection

Order code	Configuration				
	Number of round holes	Grey base	Upper cover color		Guide rail
			Yellow	Grey	
XK-B1/-Y	1	√		√	
XK-B1/-N	0	√		√	
XK-B1/J-Y	1	√		√	√
XK-B1/J-N	0	√		√	√
XK-B1/h-Y	1	√	√		
XK-B1/hJ-Y	1	√	√		√
XK-B2/-Y	2	√		√	
XK-B2/-N	0	√		√	
XK-B2/J-Y	2	√		√	√
XK-B2/J-N	0	√		√	√
XK-B3/-Y	3	√		√	
XK-B3/-N	0	√		√	
XK-B3/J-Y	3	√		√	√
XK-B3/J-N	0	√		√	√
XK-B4/-Y	4	√		√	
XK-B4/-N	0	√		√	
XK-B4/J-Y	4	√		√	√
XK-B4/J-N	0	√		√	√
XK-B5/-Y	5	√		√	
XK-B5/-N	0	√		√	
XK-B5/J-Y	5	√		√	√
XK-B5/J-N	0	√		√	√

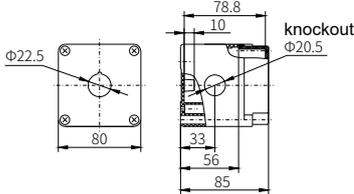
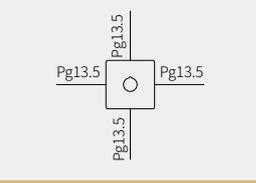
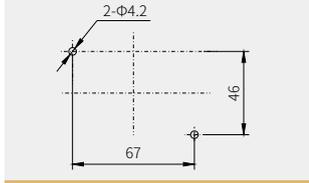
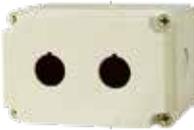
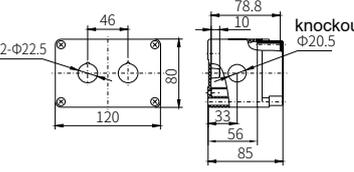
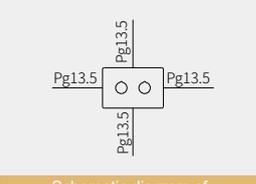
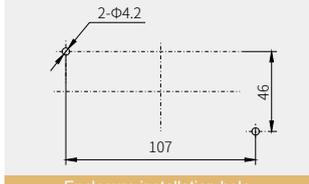
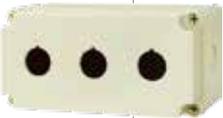
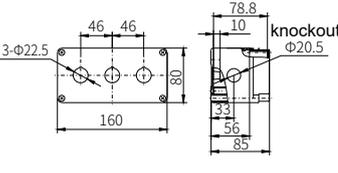
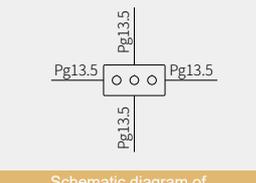
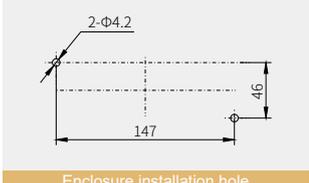
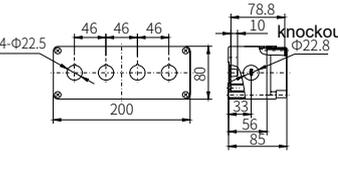
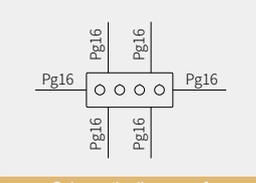
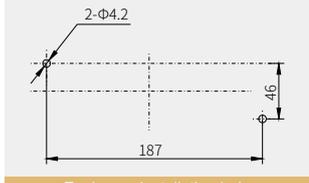
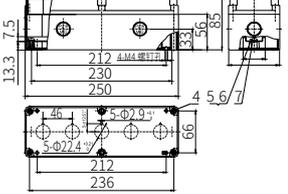
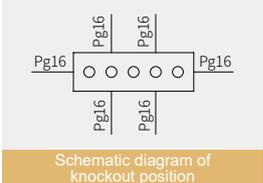
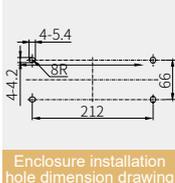
Note: number indicates corresponding hole quantity, √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## ◎ Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M6 nylon screws	
Enclosure installation	There are two elliptical holes ( $\geq\varnothing 4.2$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover; there are two fixing pins with holes at the bottom of the base, suitable for ST4.8X9.5-F self-tapping screw installation.	
Material	ABS (general)	PC (customized)
Temperature range	-40°C ~ +70 °C	-50°C ~ +115°C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension

**XK-B series**

				<b>XK-B1</b>	
				<b>XK-B2</b>	
				<b>XK-B3</b>	
				<b>XK-B4</b>	
					<b>XK-B5</b>

## Product feature

- 5 kinds of dimensions, 2 kinds of materials.
- Both the base and the cover are grey.
- XK-B series may be installed with LA39 pushbutton with two sections of contact module or illuminated pushbutton with a section of contact module, LW39-10 cam switch (4 pairs of contacts), LW39-16C cam switch (4 pairs of contacts), LW39-16B cam switch (4 pairs of contacts) and AD16-22 series indicators.
- A -shaped TS35X7.5 (also known as TH35X7.5) guide rail may be selected for XK-B series for wiring terminal installation by the user.

## ◎ XK-C order code selection

Order code	Configuration			
	Number of round holes	Grey base	Grey upper cover	Guide rail
XK-C1/-Y	1	√	√	
XK-C1/-N	0	√	√	
XK-C1/J-Y	1	√	√	√
XK-C1/J-N	0	√	√	√
XK-C2/-Y	2	√	√	
XK-C2/-N	0	√	√	
XK-C2/J-Y	2	√	√	√
XK-C2/J-N	0	√	√	√
XK-C3/-Y	3	√	√	
XK-C3/-N	0	√	√	
XK-C3/J-Y	3	√	√	√
XK-C3/J-N	0	√	√	√
XK-C4/-Y	4	√	√	
XK-C4/-N	0	√	√	
XK-C4/J-Y	4	√	√	√
XK-C4/J-N	0	√	√	√

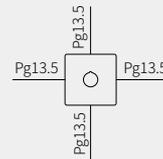
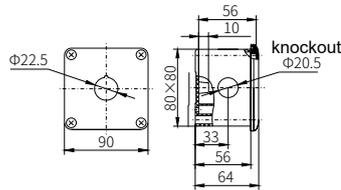
Note: number indicates corresponding hole quantity, √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## ◎ Technical feature

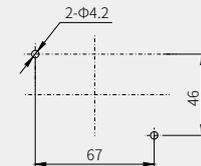
Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M6 nylon screws	
Enclosure installation	There are two elliptical holes ( $\geq \varnothing 4.2$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover; there are two fixing pins with holes at the bottom of the base, suitable for ST4.8X9.5-F self-tapping screw installation.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension

XK-C series

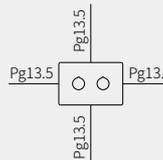
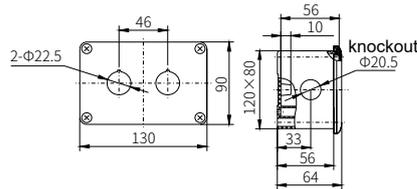


Schematic diagram of knockout position

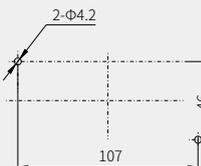


Enclosure installation hole dimension drawing

XK-C1

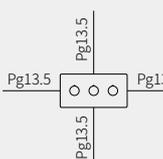
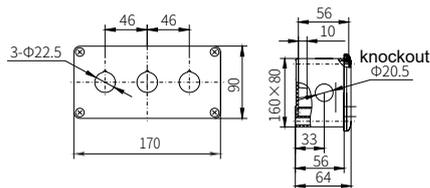
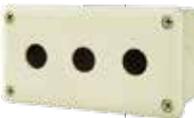


Schematic diagram of knockout position

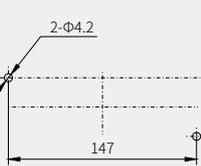


Enclosure installation hole dimension drawing

XK-C2

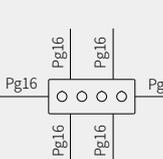
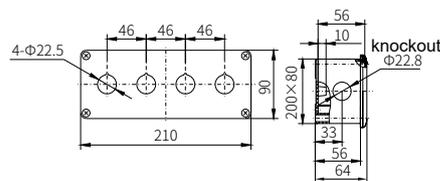
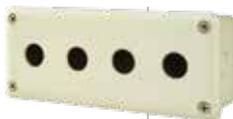


Schematic diagram of knockout position



Enclosure installation hole dimension drawing

XK-C3



Schematic diagram of knockout position



Enclosure installation hole dimension drawing

XK-C4

XK-C

## Product feature

- 4 kinds of dimensions, 2 kinds of materials.
- Both the base and the cover are grey.
- XK-C series may be installed with LA39 pushbutton with a section of contact module, LW39-10 cam switch (2 pairs of contacts), and AD16-22 series indicators.
- A-shaped TS35X7.5 (also known as TH35X7.5) guide rail may be selected for XK-C series for wiring terminal installation by the user.

## ◎ XK-6 order code selection

Order code	Configuration								
	Base color		Upper cover color	Base knockout		Lower mounting plate	Guide rail	Upper cover hole	
	Black	Grey	Grey	Yes	No			Yes	No
XK-6/kP-Y	√		√	√		√		√	
XK-6/kP-N	√		√	√		√			√
XK-6/kJ-Y	√		√	√			√	√	
XK-6/kJ-N	√		√	√			√		√
XK-6/k-Y	√		√	√				√	
XK-6/k-N	√		√	√					√
XK-6/P-Y		√	√	√		√		√	
XK-6/P-N		√	√	√		√			√
XK-6/J-Y		√	√	√			√	√	
XK-6/J-N		√	√	√			√		√
XK-6/-Y		√	√	√				√	
XK-6/-N		√	√	√					√
XK-6/kWP-Y	√		√		√	√		√	
XK-6/kWP-N	√		√		√	√			√
XK-6/kWJ-Y	√		√		√		√	√	
XK-6/kWJ-N	√		√		√		√		√
XK-6/kW-Y	√		√		√			√	
XK-6/kW-N	√		√		√				√

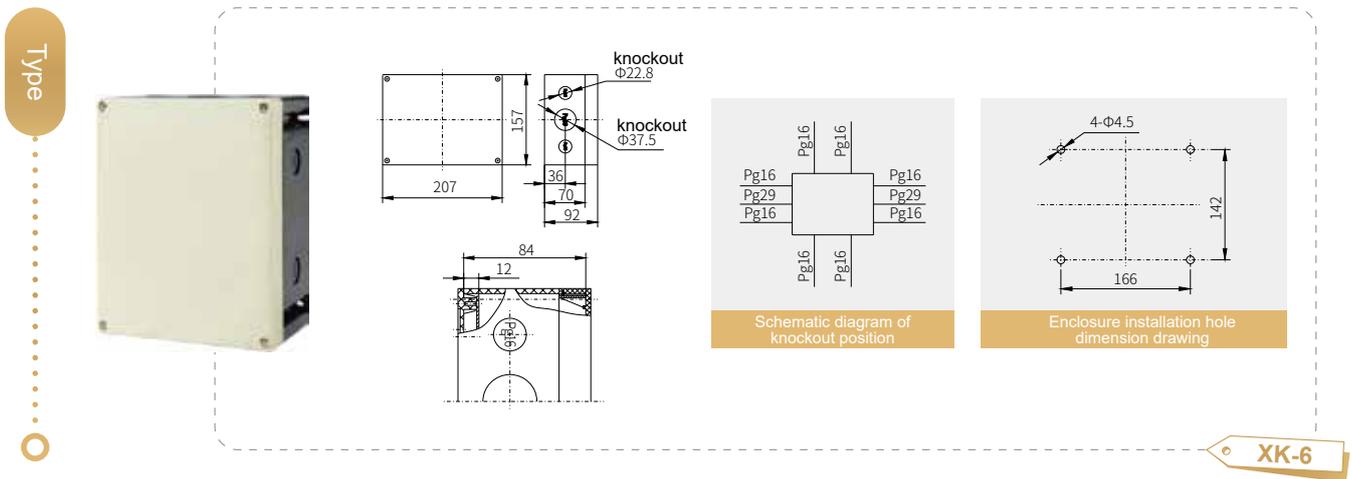
Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

For XK-6 series provided with guide rail, it is the short side provided with guide rail by default; if the long side needs to be provided with guide rail, add JL behind order code.

## ◎ Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M4 metal screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \varnothing 4.5$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension



## Hole opening scheme table

Scheme No.	001	002	003	004	005
XK-6					
	Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators	Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators	Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators	Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons, AD16-22 series indicators and LW39-16B series cam switches	Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons, AD16-22 series indicators and LW39-16B series cam switches

XK-6

## ◎ XK-7 order code selection

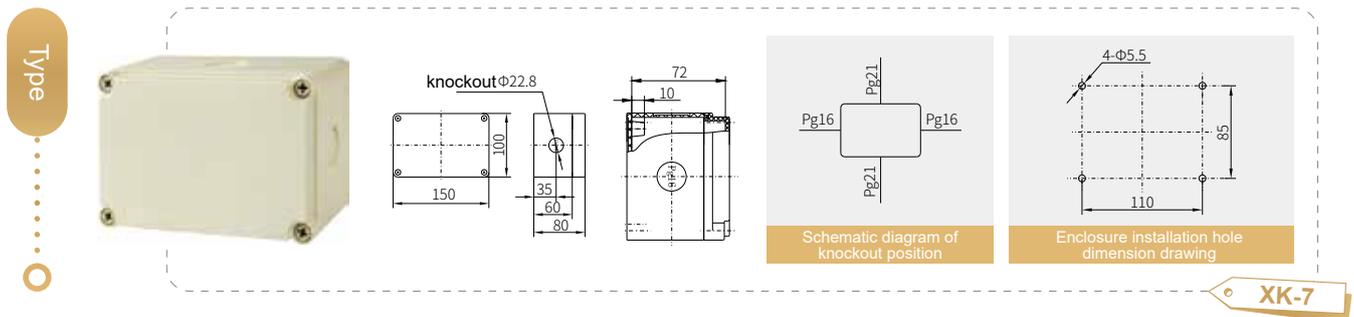
Order code	Configuration						
	Grey base	Grey upper cover	Base knockout		Guide rail	Upper cover hole	
			Yes	No		Yes	No
XK-7/-Y	√	√	√			√	
XK-7/-N	√	√	√				√
XK-7/J-Y	√	√	√		√	√	
XK-7/J-N	√	√	√		√		√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## ◎ Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M6 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \Phi 5.5$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## ◎ Dimension



## ◎ Hole opening scheme table

Scheme No.	001	002	003	004	005
XK-7	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators</p>	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators</p>	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators</p>	<p>Note: the holes are used for the installation of LA39-E, LA39-G series pushbuttons and AD16-16 series indicators</p>	<p>Note: the holes are used for the installation of LA39-E, LA39-G series pushbuttons, AD16-16 series indicators and LW39-16B series cam switches</p>

## ◎ XK-8 order code selection

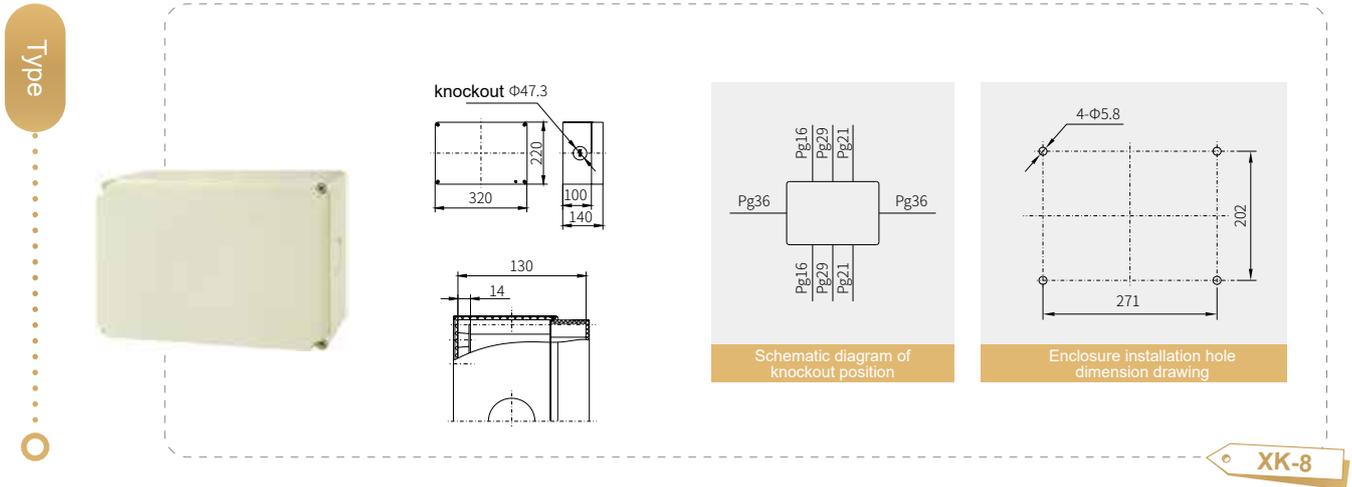
Order code	Configuration							
	Grey base	Grey upper cover	Base knockout		Lower mounting plate	Guide rail	Upper cover hole	
			Yes	No			Yes	No
XK-8/P-Y	√	√	√		√		√	
XK-8/P-N	√	√	√		√			√
XK-8/J-Y	√	√	√			√	√	
XK-8/J-N	√	√	√			√		√
XK-8/-Y	√	√	√				√	
XK-8/-N	√	√	√					√
XK-8/WP-Y	√	√		√	√		√	
XK-8/WP-N	√	√		√	√			√
XK-8/WJ-Y	√	√		√		√	√	
XK-8/WJ-N	√	√		√		√		√
XK-8/W-Y	√	√		√			√	
XK-8/W-N	√	√		√				√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## ◎ Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M8 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \varnothing 5.8$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension



## Hole opening scheme table

Scheme No.	001	002	003	004
XK-8	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators</p>	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons, AD16-22 series indicators and LW39-16B series cam switches</p>	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons, AD16-22 series indicators, LW39-16B series cam switches and the instrument with holes of 45×45</p>	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons, AD16-22 series indicators, LW39-16B series cam switches and the instrument with holes of 45×45</p>

## XK-9 order code selection

Order code	Configuration								
	Grey base	Grey upper cover	Transparent protective cover	Base knockout		Lower mounting plate	Guide rail	Upper cover hole	
				Yes	No			Yes	No
XK-9/P-Y	√	√	√	√		√		√	
XK-9/P-N	√	√	√	√		√			√
XK-9/J-Y	√	√	√	√			√	√	
XK-9/J-N	√	√	√	√			√		√

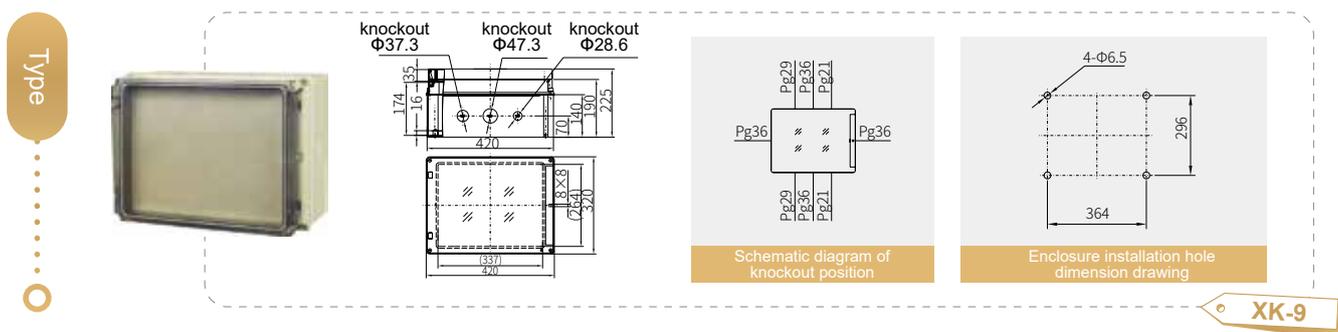
Order code	Configuration								
	Grey base	Grey upper cover	Transparent protective cover	Base knockout		Lower mounting plate	Guide rail	Upper cover hole	
				Yes	No			Yes	No
XK-9/-Y	√	√	√	√				√	
XK-9/-N	√	√	√	√					√
XK-9/WP-Y	√	√	√		√	√		√	
XK-9/WP-N	√	√	√		√	√			√
XK-9/WJ-Y	√	√	√		√		√	√	
XK-9/WJ-N	√	√	√		√		√		√
XK-9/W-Y	√	√	√		√			√	
XK-9/W-N	√	√	√		√				√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M10 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \varnothing 6.5$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP 65 for enclosure; IP40 for transparent protective cover.	

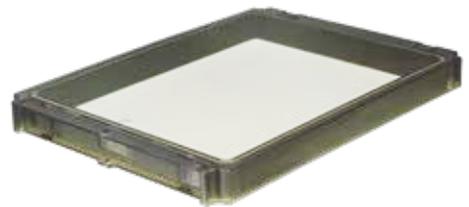
## Dimension



## Product feature

- The control cabinet 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.
- 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.
- When installing the enclosure, it is unnecessary to open the cover. Just directly install enclosure outside the cabinet.

© **XK-9 enclosure assembly schematic diagram**



XK-9

## ◎ XK-10 order code selection

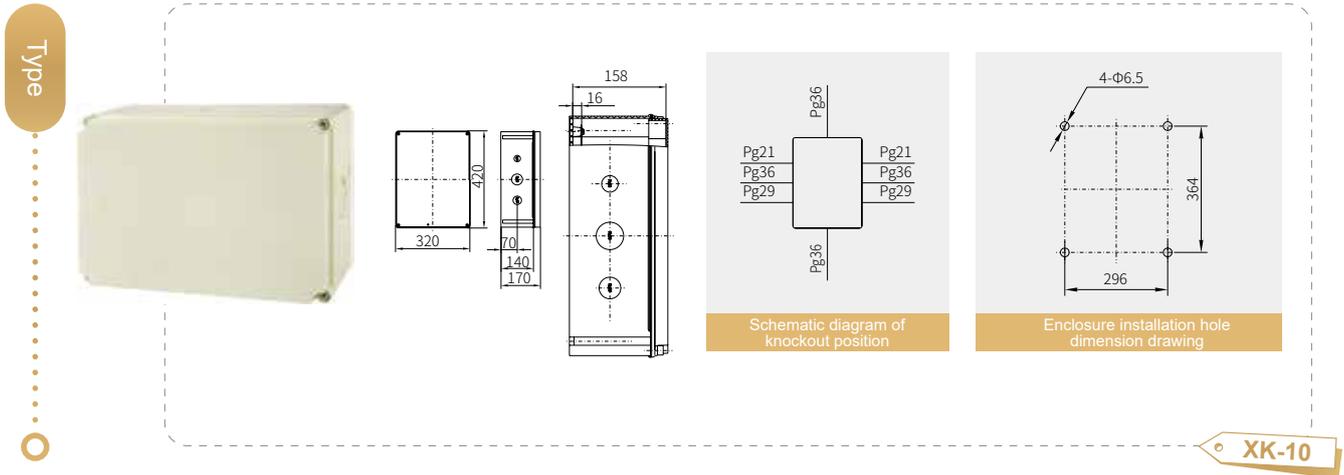
Order code	Configuration							
	Grey base	Grey upper cover	Base knockout		Lower mounting plate	Guide rail	Upper cover hole	
			Yes	No			Yes	No
XK-10/P-Y	√	√	√		√		√	
XK-10/P-N	√	√	√		√			√
XK-10/J-Y	√	√	√			√	√	
XK-10/J-N	√	√	√			√		√
XK-10/-Y	√	√	√				√	
XK-10/-N	√	√	√					√
XK-10/WP-Y	√	√		√	√		√	
XK-10/WP-N	√	√		√	√			√
XK-10/WJ-Y	√	√		√		√	√	
XK-10/WJ-N	√	√		√		√		√
XK-10/W-Y	√	√		√			√	
XK-10/W-N	√	√		√				√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## ◎ Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M10 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \varnothing 6.5$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension



## Hole opening scheme table

Scheme No.	001	002	003
XK-10	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators</p>	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons, AD16-22 series indicators, LW39-16B series cam switches and the instrument with holes of 92×92</p>	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons, AD16-22 series indicators, and the instrument with holes of 150×75</p>

## ☉ XK-11 order code selection

Order code	Configuration								
	Grey base	Upper cover color		Base knockout		Lower mounting plate	Guide rail	Hole	
		Grey	Transparent	Yes	No			Yes	No
XK-11/J-Y	√	√		√			√	√	
XK-11/J-N	√	√		√			√		√
XK-11/-Y	√	√		√				√	
XK-11/-N	√	√		√					√
XK-11/tJ-Y	√		√	√			√	√	
XK-11/tJ-N	√		√	√			√		√
XK-11/t-Y	√		√	√				√	
XK-11/t-N	√		√	√					√

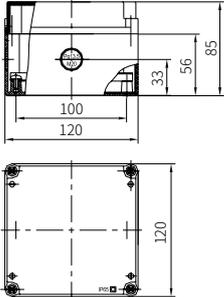
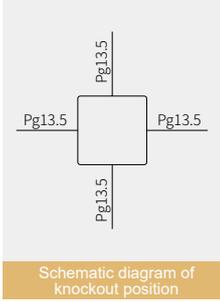
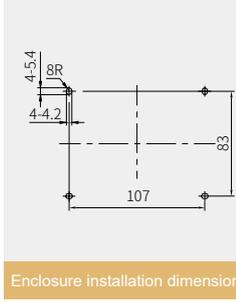
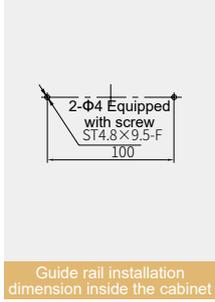
Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## ☉ Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M6 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \varnothing 4.2$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension

Type

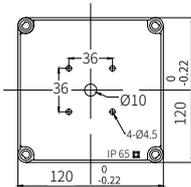
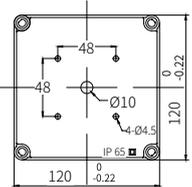
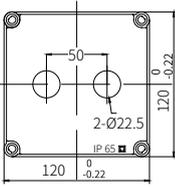
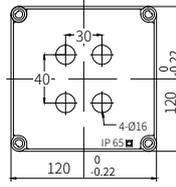
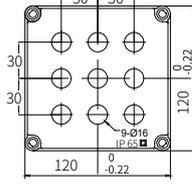
Schematic diagram of knockout position

Enclosure installation dimension

Guide rail installation dimension inside the cabinet

**XK-11**

## Hole opening scheme table

Scheme No.	001	002	003	004	005
XK-11					
	Note: the holes are used for the installation of LW39-16A series cam switches	Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators	Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators	Note: the holes are used for the installation of LA39-E, LA39-G series pushbuttons and AD16-16 series indicators	Note: the holes are used for the installation of LA39-E, LA39-G series pushbuttons and AD16-16 series indicators

## ☉ XK-12 order code selection code

Order code	Configuration								
	Grey base	Upper cover color		Base knockout		Lower mounting plate	Guide rail	Hole	
		Grey	Transparent	Yes	No			Yes	No
XK-12/-Y	√	√		√				√	
XK-12/-N	√	√		√					√
XK-12/J-Y	√	√		√			√	√	
XK-12/J-N	√	√		√			√		√
XK-12/W-Y	√	√			√			√	
XK-12/W-N	√	√			√				√
XK-12/WJ-Y	√	√			√		√	√	
XK-12/WJ-N	√	√			√		√		√
XK-12/t-Y	√		√	√				√	
XK-12/t-N	√		√	√					√
XK-12/tJ-Y	√		√	√			√	√	
XK-12/tJ-N	√		√	√			√		√
XK-12/tW-Y	√		√		√			√	
XK-12/tW-N	√		√		√				√
XK-12/tWJ-Y	√		√		√		√	√	
XK-12/tWJ-N	√		√		√		√		√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

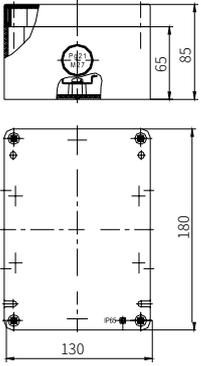
## ☉ Technical feature

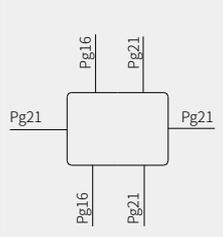
Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M6 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \varnothing 5.2$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40°C ~ +70°C	-50°C ~ +115°C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension

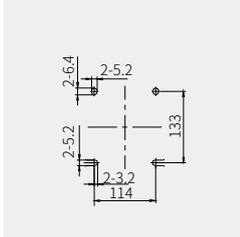
Type



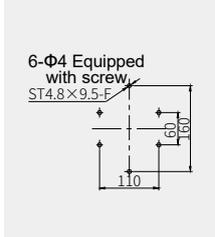




Schematic diagram of knockout position



Enclosure installation dimension

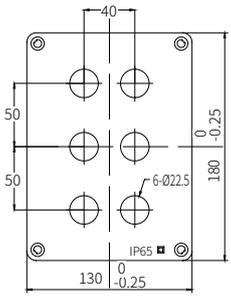
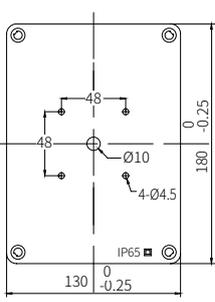
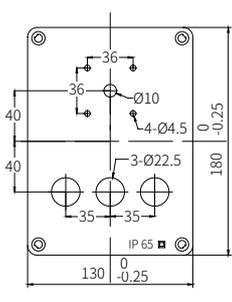
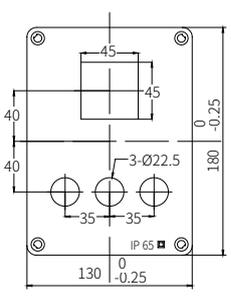


6-Φ4 Equipped with screw  
ST4.8x9.5-F

Guide rail installation dimension inside the cabinet

XK-12

## Hole opening scheme table

Scheme No.	001	002	003	004
XK-12				
	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons and AD16-22 series indicators</p>	<p>Note: the holes are used for the installation of LW39-16A series cam switches</p>	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons, AD16-22 series indicators and LW39-16B series cam switches</p>	<p>Note: the holes are used for the installation of LA39-A, LA39-B series pushbuttons, AD16-22 series indicators and the instrument with holes of 45x45</p>

XK / 28

Control Cabinet / Maintenance Box / Lighting Box  
XK Series / XX Series / XM Series

© **XK-13 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-13/-Y	√	√		√										√	
XK-13/-N	√	√		√											√
XK-13/P-Y	√	√		√		√								√	
XK-13/P-N	√	√		√		√									√
XK-13/J-Y	√	√		√			√							√	
XK-13/J-N	√	√		√			√								√
XK-13/FA-Y	√	√			√						√			√	
XK-13/FA-N	√	√			√						√				√
XK-13/FB-Y	√	√			√					√		√		√	
XK-13/FB-N	√	√			√					√		√			√
XK-13/FC-Y	√	√			√								√	√	
XK-13/FC-N	√	√			√								√		√
XK-13/PFA-Y	√	√			√	√					√			√	
XK-13/PFA-N	√	√			√	√					√				√
XK-13/PFB-Y	√	√			√	√				√		√		√	
XK-13/PFB-N	√	√			√	√				√		√			√
XK-13/PFC-Y	√	√			√	√							√	√	
XK-13/PFC-N	√	√			√	√							√		√
XK-13/JFA-Y	√	√			√		√				√			√	
XK-13/JFA-N	√	√			√		√				√				√
XK-13/JFB-Y	√	√			√		√			√		√		√	
XK-13/JFB-N	√	√			√		√			√		√			√
XK-13/JFC-Y	√	√			√		√						√	√	
XK-13/JFC-N	√	√			√		√						√		√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

**XK-13**

## © XK-13 order code selection code

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle quantity		Padlock buckle quantity		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-13/t-Y	√		√	√										√	
XK-13/t-N	√		√	√											√
XK-13/tP-Y	√		√	√		√								√	
XK-13/tP-N	√		√	√		√									√
XK-13/tD-Y	√		√	√				√						√	
XK-13/tD-N	√		√	√				√							√
XK-13/tJ-Y	√		√	√			√							√	
XK-13/tJ-N	√		√	√			√								√
XK-13/tDP-Y	√		√	√		√		√						√	
XK-13/tDP-N	√		√	√		√		√							√
XK-13/tDJ-Y	√		√	√			√	√						√	
XK-13/tDJ-N	√		√	√			√	√							√
XK-13/tFA-Y	√		√		√					√				√	
XK-13/tFA-N	√		√		√					√					√
XK-13/tFB-Y	√		√		√				√		√			√	
XK-13/tFB-N	√		√		√				√		√				√
XK-13/tFC-Y	√		√		√							√	√		
XK-13/tFC-N	√		√		√							√			√
XK-13/tPFA-Y	√		√		√	√				√				√	
XK-13/tPFA-N	√		√		√	√				√					√
XK-13/tPFB-Y	√		√		√	√			√		√			√	
XK-13/tPFB-N	√		√		√	√			√		√				√
XK-13/tPFC-Y	√		√		√	√						√	√		
XK-13/tPFC-N	√		√		√	√						√			√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

For XK-13 series provided with guide rail, it is the short side provided with guide rail by default; if the long side needs to be provided with guide rail, add JL behind order code.

© **XK-13 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-13/tJFA-Y	√		√		√		√				√			√	
XK-13/tJFA-N	√		√		√		√				√				√
XK-13/tJFB-Y	√		√		√		√			√		√		√	
XK-13/tJFB-N	√		√		√		√			√		√			√
XK-13/tJFC-Y	√		√		√		√						√	√	
XK-13/tJFC-N	√		√		√		√						√		√
XK-13/tDPS-Y	√		√	√		√			√					√	
XK-13/tDPS-N	√		√	√		√			√						√
XK-13/tDJS-Y	√		√	√			√		√					√	
XK-13/tDJS-N	√		√	√			√		√						√
XK-13/tDS-Y	√		√	√					√					√	
XK-13/tDS-N	√		√	√					√						√
XK-13/tDFA-Y	√		√		√			√			√			√	
XK-13/tDFA-N	√		√		√			√			√				√
XK-13/tDFB-Y	√		√		√			√		√		√		√	
XK-13/tDFB-N	√		√		√			√		√		√			√
XK-13/tDFC-Y	√		√		√			√					√	√	
XK-13/tDFC-N	√		√		√			√					√		√
XK-13/tDPFA-Y	√		√		√	√		√			√			√	
XK-13/tDPFA-N	√		√		√	√		√			√				√
XK-13/tDPFB-Y	√		√		√	√		√		√		√		√	
XK-13/tDPFB-N	√		√		√	√		√		√		√			√
XK-13/tDPFC-Y	√		√		√	√		√					√	√	
XK-13/tDPFC-N	√		√		√	√		√					√		√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

For XK-13 series provided with guide rail, it is the short side provided with guide rail by default; if the long side needs to be provided with guide rail, add JL behind order code.

XK-13

## © XK-13 order code selection code

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-13/tDJFA-Y	√		√		√		√	√			√			√	
XK-13/tDJFA-N	√		√		√		√	√			√				√
XK-13/tDJFB-Y	√		√		√		√	√		√		√		√	
XK-13/tDJFB-N	√		√		√		√	√		√		√			√
XK-13/tDJFC-Y	√		√		√		√	√				√		√	
XK-13/tDJFC-N	√		√		√		√	√				√			√
XK-13/tDFSA-Y	√		√		√			√		√				√	
XK-13/tDFSA-N	√		√		√			√		√					√
XK-13/tDFSB-Y	√		√		√			√	√		√			√	
XK-13/tDFSB-N	√		√		√			√	√		√				√
XK-13/tDFSC-Y	√		√		√			√				√		√	
XK-13/tDFSC-N	√		√		√			√				√			√
XK-13/tDPFSA-Y	√		√		√	√		√		√				√	
XK-13/tDPFSA-N	√		√		√	√		√		√					√
XK-13/tDPFSB-Y	√		√		√	√		√	√		√			√	
XK-13/tDPFSB-N	√		√		√	√		√	√		√				√
XK-13/tDPFSC-Y	√		√		√	√		√				√		√	
XK-13/tDPFSC-N	√		√		√	√		√				√			√
XK-13/tDJFSA-Y	√		√		√		√	√		√				√	
XK-13/tDJFSA-N	√		√		√		√	√		√					√
XK-13/tDJFSB-Y	√		√		√		√	√	√		√			√	
XK-13/tDJFSB-N	√		√		√		√	√	√		√				√
XK-13/tDJFSC-Y	√		√		√		√	√				√		√	
XK-13/tDJFSC-N	√		√		√		√	√				√			√

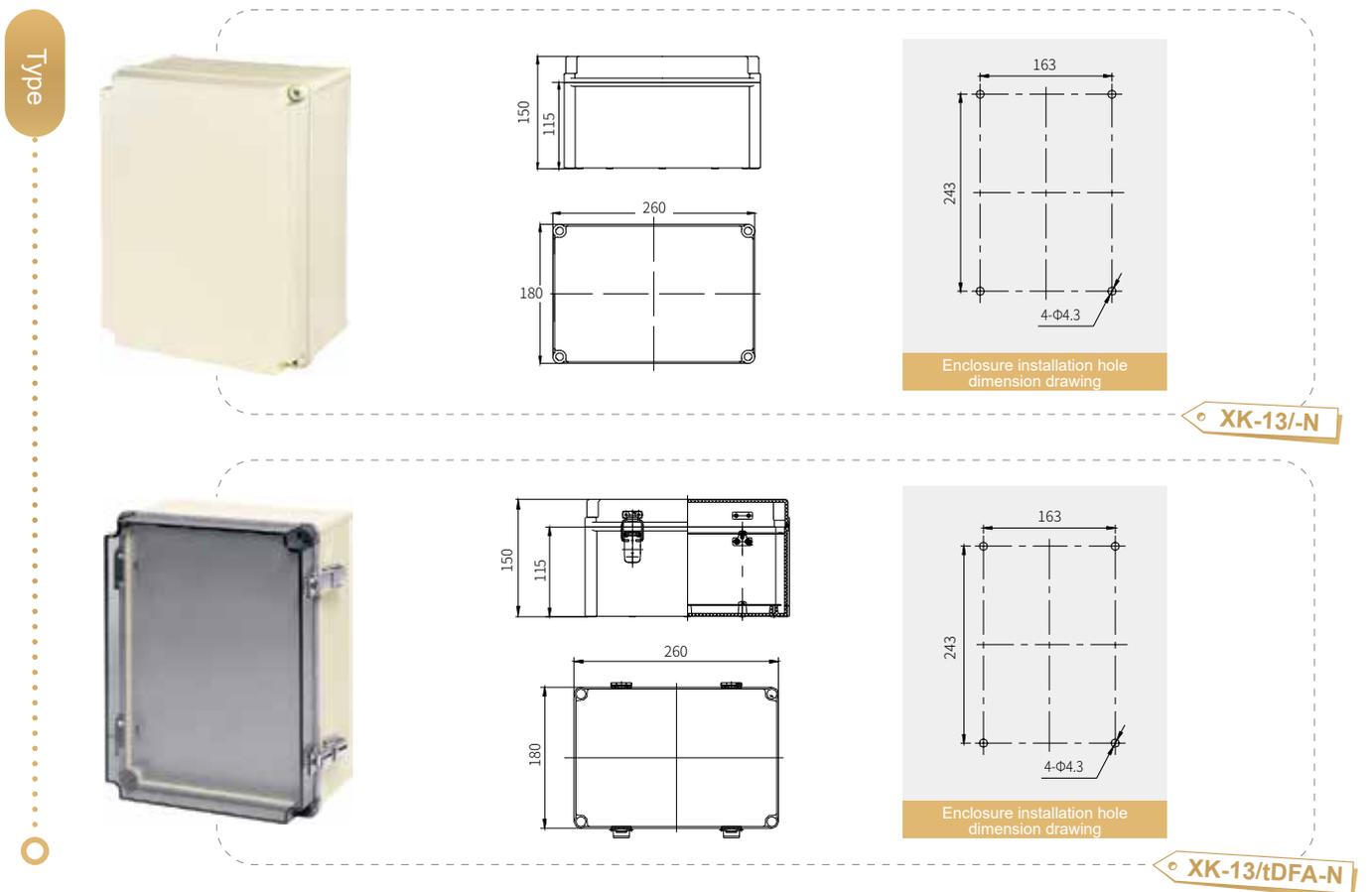
Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

For XK-13 series provided with guide rail, it is the short side provided with guide rail by default; if the long side needs to be provided with guide rail, add JL behind order code.

## Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M10 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \varnothing 4.3$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension



No hole can be opened on the transparent upper cover.

## © XK-14 order code selectioncode

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-14/-Y	√	√		√										√	
XK-14/-N	√	√		√											√
XK-14/P-Y	√	√		√		√								√	
XK-14/P-N	√	√		√		√									√
XK-14/J-Y	√	√		√			√							√	
XK-14/J-N	√	√		√			√								√
XK-14/FA-Y	√	√			√						√			√	
XK-14/FA-N	√	√			√						√				√
XK-14/FB-Y	√	√			√					√		√		√	
XK-14/FB-N	√	√			√					√		√			√
XK-14/FC-Y	√	√			√								√	√	
XK-14/FC-N	√	√			√								√		√
XK-14/PFA-Y	√	√			√	√					√			√	
XK-14/PFA-N	√	√			√	√					√				√
XK-14/PFB-Y	√	√			√	√				√		√		√	
XK-14/PFB-N	√	√			√	√				√		√			√
XK-14/PFC-Y	√	√			√	√							√	√	
XK-14/PFC-N	√	√			√	√							√		√
XK-14/JFA-Y	√	√			√		√				√			√	
XK-14/JFA-N	√	√			√		√				√				√
XK-14/JFB-Y	√	√			√		√			√		√		√	
XK-14/JFB-N	√	√			√		√			√		√			√
XK-14/JFC-Y	√	√			√		√						√	√	
XK-14/JFC-N	√	√			√		√						√		√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

© **XK-14 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-14/t-Y	√		√	√										√	
XK-14/t-N	√		√	√											√
XK-14/tP-Y	√		√	√		√								√	
XK-14/tP-N	√		√	√		√									√
XK-14/tD-Y	√		√	√				√						√	
XK-14/tD-N	√		√	√				√							√
XK-14/tJ-Y	√		√	√			√							√	
XK-14/tJ-N	√		√	√			√								√
XK-14/tDP-Y	√		√	√		√		√						√	
XK-14/tDP-N	√		√	√		√		√							√
XK-14/tDJ-Y	√		√	√			√	√						√	
XK-14/tDJ-N	√		√	√			√	√							√
XK-14/tFA-Y	√		√		√						√			√	
XK-14/tFA-N	√		√		√						√				√
XK-14/tFB-Y	√		√		√					√		√		√	
XK-14/tFB-N	√		√		√					√		√			√
XK-14/tFC-Y	√		√		√								√	√	
XK-14/tFC-N	√		√		√								√		√
XK-14/tPFA-Y	√		√		√	√					√			√	
XK-14/tPFA-N	√		√		√	√					√				√
XK-14/tPFB-Y	√		√		√	√				√		√		√	
XK-14/tPFB-N	√		√		√	√				√		√			√
XK-14/tPFC-Y	√		√		√	√							√	√	
XK-14/tPFC-N	√		√		√	√							√		√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

**XK-14**

© **XK-14 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-14/tJFA-Y	√		√		√		√				√			√	
XK-14/tJFA-N	√		√		√		√				√				√
XK-14/tJFB-Y	√		√		√		√			√		√		√	
XK-14/tJFB-N	√		√		√		√			√		√			√
XK-14/tJFC-Y	√		√		√		√						√	√	
XK-14/tJFC-N	√		√		√		√						√		√
XK-14/tDPS-Y	√		√	√		√			√					√	
XK-14/tDPS-N	√		√	√		√			√						√
XK-14/tDJS-Y	√		√	√			√		√					√	
XK-14/tDJS-N	√		√	√			√		√						√
XK-14/tDS-Y	√		√	√					√					√	
XK-14/tDS-N	√		√	√					√						√
XK-14/tDFA-Y	√		√		√				√		√			√	
XK-14/tDFA-N	√		√		√				√		√				√
XK-14/tDFB-Y	√		√		√				√		√			√	
XK-14/tDFB-N	√		√		√				√		√				√
XK-14/tDFC-Y	√		√		√				√				√	√	
XK-14/tDFC-N	√		√		√				√				√		√
XK-14/tDPFA-Y	√		√		√	√			√		√			√	
XK-14/tDPFA-N	√		√		√	√			√		√				√
XK-14/tDPFB-Y	√		√		√	√			√		√			√	
XK-14/tDPFB-N	√		√		√	√			√		√				√
XK-14/tDPFC-Y	√		√		√	√			√				√	√	
XK-14/tDPFC-N	√		√		√	√			√				√		√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

XK-14

© **XK-14 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-14/tDJFA-Y	√		√		√		√	√			√			√	
XK-14/tDJFA-N	√		√		√		√	√			√				√
XK-14/tDJFB-Y	√		√		√		√	√		√		√		√	
XK-14/tDJFB-N	√		√		√		√	√		√		√			√
XK-14/tDJFC-Y	√		√		√		√	√				√	√		
XK-14/tDJFC-N	√		√		√		√	√				√			√
XK-14/tDFSA-Y	√		√		√				√		√			√	
XK-14/tDFSA-N	√		√		√				√		√				√
XK-14/tDFSB-Y	√		√		√				√	√		√		√	
XK-14/tDFSB-N	√		√		√				√	√		√			√
XK-14/tDFSC-Y	√		√		√				√				√	√	
XK-14/tDFSC-N	√		√		√				√				√		√
XK-14/tDPFSA-Y	√		√		√	√			√		√			√	
XK-14/tDPFSA-N	√		√		√	√			√		√				√
XK-14/tDPFSB-Y	√		√		√	√			√	√		√		√	
XK-14/tDPFSB-N	√		√		√	√			√	√		√			√
XK-14/tDPFSC-Y	√		√		√	√			√				√	√	
XK-14/tDPFSC-N	√		√		√	√			√				√		√
XK-14/tDJFSA-Y	√		√		√		√		√		√			√	
XK-14/tDJFSA-N	√		√		√		√		√		√				√
XK-14/tDJFSB-Y	√		√		√		√		√	√		√		√	
XK-14/tDJFSB-N	√		√		√		√		√	√		√			√
XK-14/tDJFSC-Y	√		√		√		√		√				√	√	
XK-14/tDJFSC-N	√		√		√		√		√				√		√

XK-14

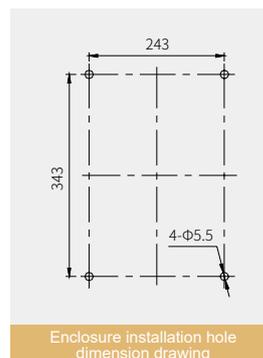
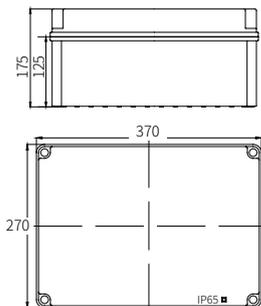
Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## Technical feature

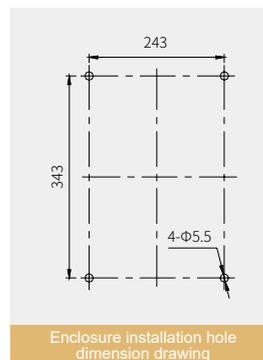
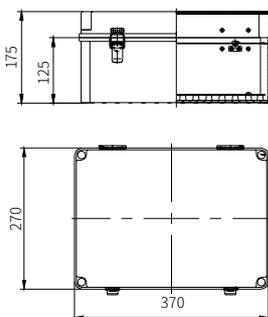
Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M12 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \phi 5.3$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension

Type



XK-14-N



XK-14/tDFA-N

No hole can be opened on the transparent upper cover.

© **XK-15 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-15/-Y	√	√		√										√	
XK-15/-N	√	√		√											√
XK-15/P-Y	√	√		√		√								√	
XK-15/P-N	√	√		√		√									√
XK-15/FA-Y	√	√			√						√			√	
XK-15/FA-N	√	√			√						√				√
XK-15/FB-Y	√	√			√					√		√		√	
XK-15/FB-N	√	√			√					√		√			√
XK-15/FC-Y	√	√			√								√	√	
XK-15/FC-N	√	√			√								√		√
XK-15/PFA-Y	√	√			√	√					√			√	
XK-15/PFA-N	√	√			√	√					√				√
XK-15/PFB-Y	√	√			√	√				√		√		√	
XK-15/PFB-N	√	√			√	√				√		√			√
XK-15/PFC-Y	√	√			√	√							√	√	
XK-15/PFC-N	√	√			√	√							√		√
XK-15/t-Y	√		√	√										√	
XK-15/t-N	√		√	√											√
XK-15/tP-Y	√		√	√		√								√	
XK-15/tP-N	√		√	√		√									√
XK-15/tD-Y	√		√	√				√						√	
XK-15/tD-N	√		√	√				√							√
XK-15/tDP-Y	√		√	√		√		√						√	
XK-15/tDP-N	√		√	√		√		√							√

**XK-15**

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

☉ **XK-15 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-15/tFA-Y	√		√		√						√			√	
XK-15/tFA-N	√		√		√						√				√
XK-15/tFB-Y	√		√		√					√		√		√	
XK-15/tFB-N	√		√		√					√		√			√
XK-15/tFC-Y	√		√		√								√	√	
XK-15/tFC-N	√		√		√								√		√
XK-15/tPFA-Y	√		√		√	√					√			√	
XK-15/tPFA-N	√		√		√	√					√				√
XK-15/tPFB-Y	√		√		√	√				√		√		√	
XK-15/tPFB-N	√		√		√	√				√		√			√
XK-15/tPFC-Y	√		√		√	√							√	√	
XK-15/tPFC-N	√		√		√	√							√		√
XK-15/tDPS-Y	√		√	√		√			√					√	
XK-15/tDPS-N	√		√	√		√			√						√
XK-15/tDS-Y	√		√	√					√					√	
XK-15/tDS-N	√		√	√					√						√
XK-15/tDFA-Y	√		√		√			√			√			√	
XK-15/tDFA-N	√		√		√			√			√				√
XK-15/tDFB-Y	√		√		√			√		√		√		√	
XK-15/tDFB-N	√		√		√			√		√		√			√
XK-15/tDFC-Y	√		√		√			√					√	√	
XK-15/tDFC-N	√		√		√			√					√		√
XK-15/tDPFA-Y	√		√		√	√		√			√			√	
XK-15/tDPFA-N	√		√		√	√		√			√				√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

XK-15

© **XK-15 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-15/tDPFB-Y	√		√		√	√		√		√		√		√	
XK-15/tDPFB-N	√		√		√	√		√		√		√			√
XK-15/tDPFC-Y	√		√		√	√		√					√	√	
XK-15/tDPFC-N	√		√		√	√		√					√		√
XK-15/tDFSA-Y	√		√		√				√		√			√	
XK-15/tDFSA-N	√		√		√				√		√				√
XK-15/tDFSB-Y	√		√		√				√	√		√		√	
XK-15/tDFSB-N	√		√		√				√	√		√			√
XK-15/tDFSC-Y	√		√		√				√				√	√	
XK-15/tDFSC-N	√		√		√				√				√		√
XK-15/tDPFSA-Y	√		√		√	√			√		√			√	
XK-15/tDPFSA-N	√		√		√	√			√		√				√
XK-15/tDPFSB-Y	√		√		√	√			√	√		√		√	
XK-15/tDPFSB-N	√		√		√	√			√	√		√			√
XK-15/tDPFSC-Y	√		√		√	√			√				√	√	
XK-15/tDPFSC-N	√		√		√	√			√				√		√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

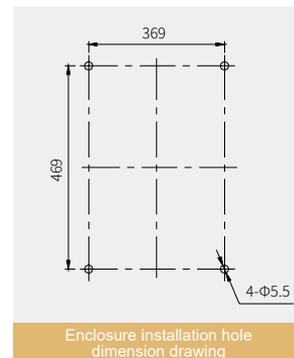
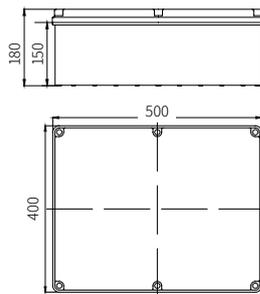
**XK-15**

## Technical feature

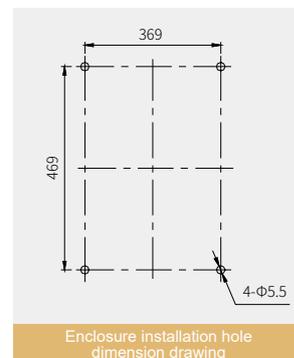
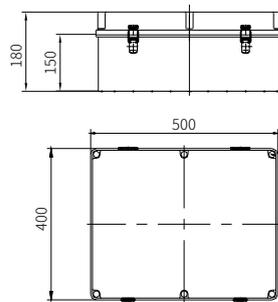
Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M12 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \phi 5.5$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension

Type



XK-15-N



XK-15/tDFA-N

No hole can be opened on the transparent upper cover.

© **XK-16 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-16/-Y	√	√		√										√	
XK-16/-N	√	√		√											√
XK-16/P-Y	√	√		√		√								√	
XK-16/P-N	√	√		√		√									√
XK-16/FA-Y	√	√			√						√			√	
XK-16/FA-N	√	√			√						√				√
XK-16/FB-Y	√	√			√					√		√		√	
XK-16/FB-N	√	√			√					√		√			√
XK-16/FC-Y	√	√			√								√	√	
XK-16/FC-N	√	√			√								√		√
XK-16/PFA-Y	√	√			√	√					√			√	
XK-16/PFA-N	√	√			√	√					√				√
XK-16/PFB-Y	√	√			√	√				√		√		√	
XK-16/PFB-N	√	√			√	√				√		√			√
XK-16/PFC-Y	√	√			√	√							√	√	
XK-16/PFC-N	√	√			√	√							√		√
XK-16/t-Y	√		√	√										√	
XK-16/t-N	√		√	√											√
XK-16/tP-Y	√		√	√		√								√	
XK-16/tP-N	√		√	√		√									√
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XK-16/tDP-N	√		√	√		√		√							√

**XK-16**

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

## ☉ XK-16 order code selection code

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-16/tFA-Y	√		√		√									√	
XK-16/tFA-N	√		√		√										√
XK-16/tFB-Y	√		√		√					√		√		√	
XK-16/tFB-N	√		√		√					√		√			√
XK-16/tFC-Y	√		√		√								√	√	
XK-16/tFC-N	√		√		√								√		√
XK-16/tPFA-Y	√		√		√	√								√	
XK-16/tPFA-N	√		√		√	√									√
XK-16/tPFB-Y	√		√		√	√				√		√		√	
XK-16/tPFB-N	√		√		√	√				√		√			√
XK-16/tPFC-Y	√		√		√	√							√	√	
XK-16/tPFC-N	√		√		√	√							√		√
XK-16/tDPS-Y	√		√	√		√			√					√	
XK-16/tDPS-N	√		√	√		√			√						√
XK-16/tDS-Y	√		√	√					√					√	
XK-16/tDS-N	√		√	√					√						√
XK-16/tDFA-Y	√		√		√				√					√	
XK-16/tDFA-N	√		√		√				√						√
XK-16/tDFB-Y	√		√		√				√		√			√	
XK-16/tDFB-N	√		√		√				√		√				√
XK-16/tDFC-Y	√		√		√				√				√	√	
XK-16/tDFC-N	√		√		√				√				√		√
XK-16/tDPFA-Y	√		√		√	√			√					√	
XK-16/tDPFA-N	√		√		√	√			√						√

Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

© **XK-16 order code selectioncode**

Order code	Configuration														
	Grey base	Upper cover color		Upper cover function		Lower mounting plate	Guide rail	Function of upper mounting plate		Buckle q' ty		Padlock buckle q' ty		Hole	
		Grey	Transparent	Fixed	Turnable			Fixed	Turnable	1	2	1	2	Yes	No
XK-16/tDPFB-Y	√		√		√	√		√		√		√		√	
XK-16/tDPFB-N	√		√		√	√		√		√		√			√
XK-16/tDPFC-Y	√		√		√	√		√					√	√	
XK-16/tDPFC-N	√		√		√	√		√					√		√
XK-16/tDFSA-Y	√		√		√				√		√			√	
XK-16/tDFSA-N	√		√		√				√		√				√
XK-16/tDFSB-Y	√		√		√				√	√		√		√	
XK-16/tDFSB-N	√		√		√				√	√		√			√
XK-16/tDFSC-Y	√		√		√				√				√	√	
XK-16/tDFSC-N	√		√		√				√				√		√
XK-16/tDPFSA-Y	√		√		√	√			√		√			√	
XK-16/tDPFSA-N	√		√		√	√			√		√				√
XK-16/tDPFSB-Y	√		√		√	√			√	√		√		√	
XK-16/tDPFSB-N	√		√		√	√			√	√		√			√
XK-16/tDPFSC-Y	√		√		√	√			√				√	√	
XK-16/tDPFSC-N	√		√		√	√			√				√		√

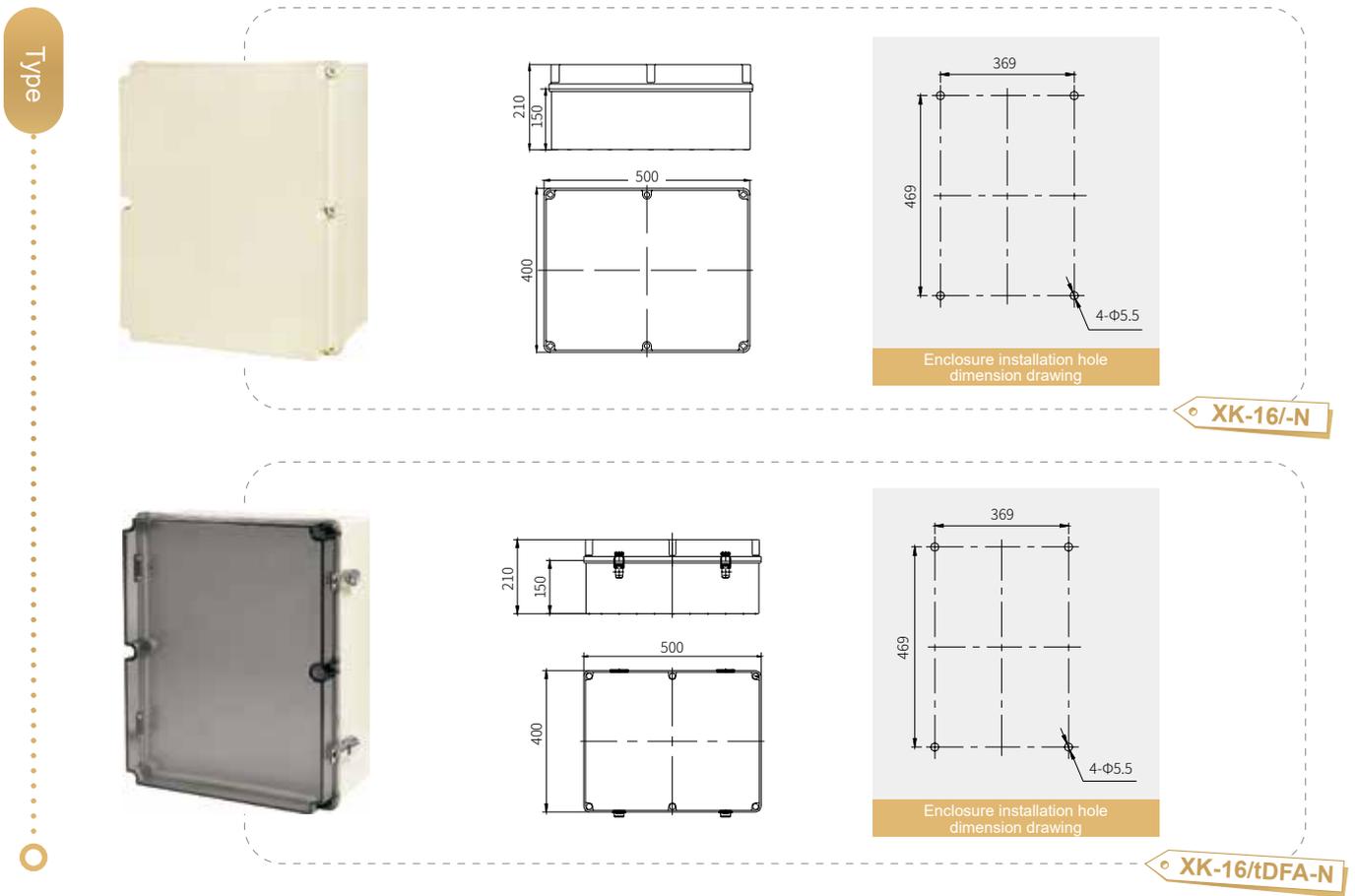
Note: √ indicates that the corresponding configuration is provided and blank indicates that corresponding configuration is not provided.

**XK-16**

## Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M12 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \text{Ø} 6.6$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Components will be directly installed on the cabinet cover. The bottom of the base is designed with pillars with holes for fixing of mounting plate and guide rail.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-60 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP65	IP65

## Dimension



No hole can be opened on the transparent upper cover.

# APTO



## XX Series Maintenance Box

### Product feature

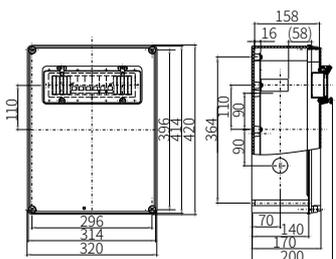
- A miniature breaker operating window is configured at the upper part of the enclosure, with a transparent protective cover.
- After two T-shaped TS45X7.5 (also known as TH45X7.5) guide rails are installed inside the enclosure, the miniature breaker and wiring terminal may be installed.
- Suitable for being used as power box at various fixed occasions and mobile temporary occasions for maintenance.
- The cover may be configured with various kinds of industrial sockets, meters and other components.

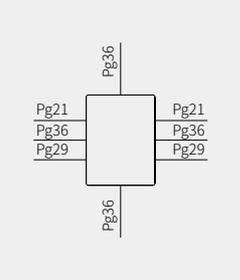
◎ **Technical feature**

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M10 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \phi 6.5$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Mounting iron plate and support are provided inside the enclosure; two guide rails are also provided. After guide rail installation, the miniature breaker and wiring terminal may be installed.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP54	IP54

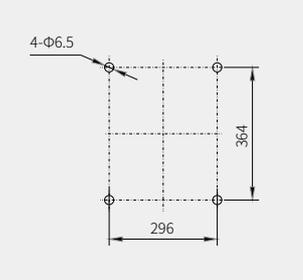
◎ **Dimension**

Type



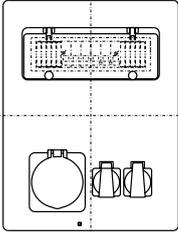
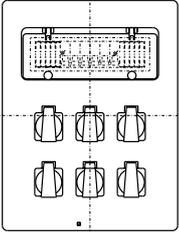
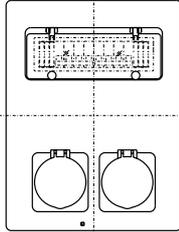
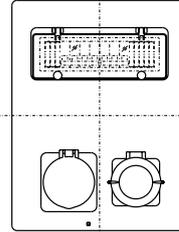
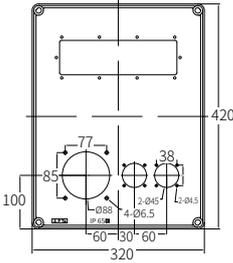
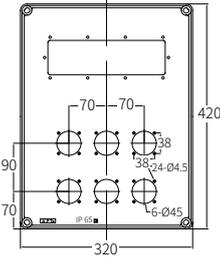
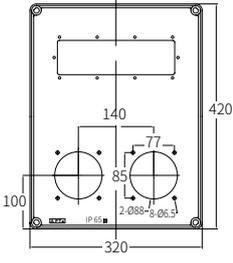
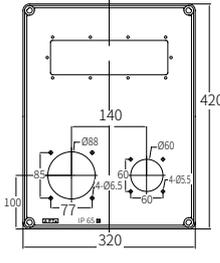
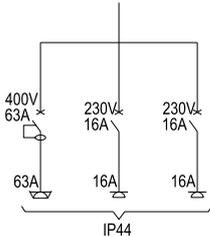
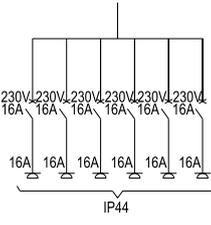
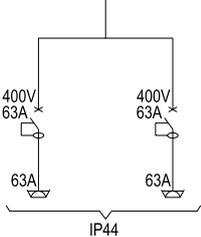
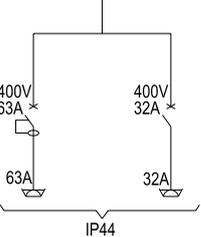
Schematic diagram of knockout position



Enclosure installation hole dimension drawing

XX

◎ **XX maintenance box scheme examples**

Order code	XX-001	XX-002	XX-003	XX-004
Type				
Hole opening drawing				
Circuit scheme drawing				
Purpose	For indoor and outdoor power distribution	For indoor and outdoor power distribution	For indoor and outdoor power distribution	For indoor and outdoor power distribution
Rated operating current (A)	100A	100A	140A	100A
Main components	Leakage switch	63A 1pc	63A 2pcs	63A 1pc
	Miniature breaker	16A 2pcs	16A 6pcs	32A 1pc
	Output socket 63A (5P)	1pc		1pc
	Output socket 32A (4P)			1pc
	Output socket 16A (3P)	2pcs	6pcs	

Note: the order code of the socket configured in the drawing XX-001 is WEIPU 5923 & 1601.  
 The order code of the socket configured in the drawing XX-002 is WEIPU 1601.  
 The order code of the socket configured in the drawing XX-003 is WEIPU 5923.  
 The order code of the socket configured in the drawing XX-004 is WEIPU 5923 & 5819.

For the configuration above, our company will not provide the breaker.





## XM Series Lighting Box

### Product feature

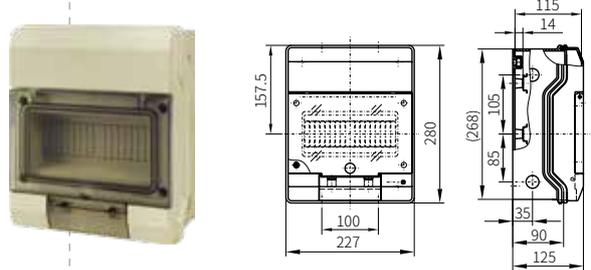
- This product has full plastic enclosure and is mainly used as lighting control box in petroleum, chemistry and other sectors at occasions with much dust and small corrosion hazard.
- XM-9 and XM-12 have been installed with two  $\text{TS45X7.5}$  (also known as  $\text{TH45X7.5}$ ) guide rails inside the enclosure; XM-24 has been installed with four guide rails inside the enclosure for the user to install miniature breaker and wiring terminals.
- The face guard is made of light black transparent PC material; the enclosure is in grey. The general material of the enclosure is ABS; PC may also be customized.

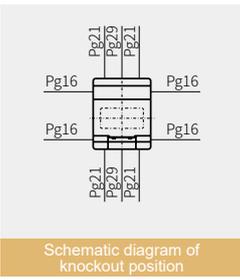
## Technical feature

Seal ring	Silicone sponge rubber	
Connection between the cover and the base	Four M8 nylon screws	
Enclosure installation	There are four kidney-shaped holes ( $\geq \varnothing 6.4$ ) at the bottom of the base designed for enclosure installation (installation hole dimension and hole pitch dimension line are engraved outside the base)	
Internal component installation	Mounting iron plate and support are provided inside the enclosure; two guide rails are also provided. After guide rail installation, the miniature breaker and wiring terminal may be installed.	
Material	ABS (general)	PC (customized)
Temperature range	-40 °C ~ +70 °C	-50 °C ~ +115 °C
Flame retardant rating	V <sub>0</sub>	V <sub>2</sub>
Protection class	IP44	IP44

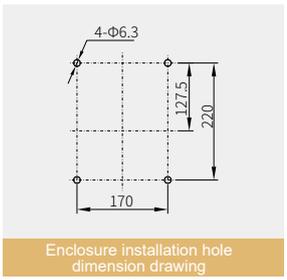
## Dimension

Type



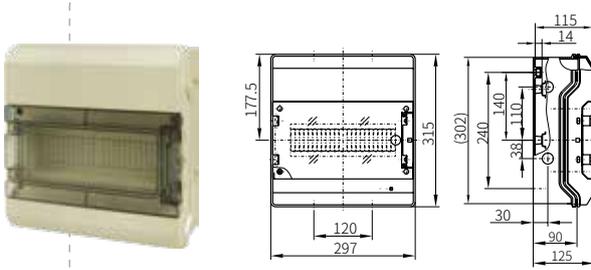


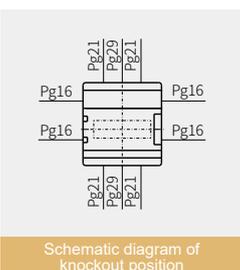
Schematic diagram of knockout position



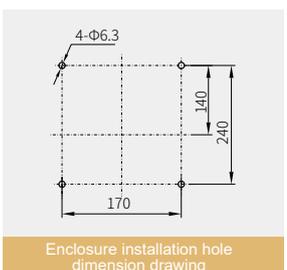
Enclosure installation hole dimension drawing

XM-9



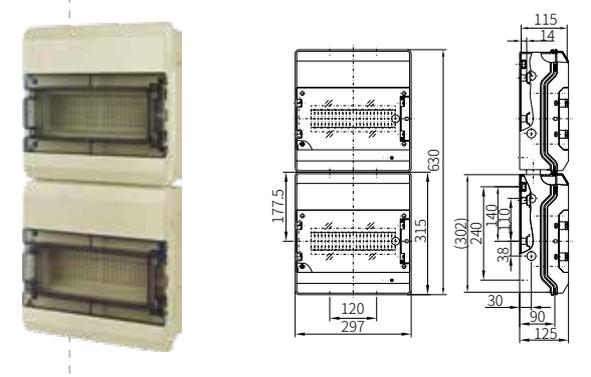


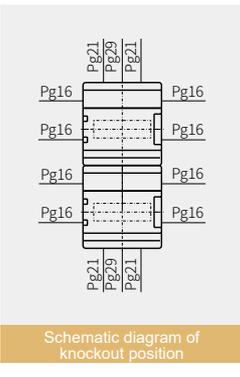
Schematic diagram of knockout position



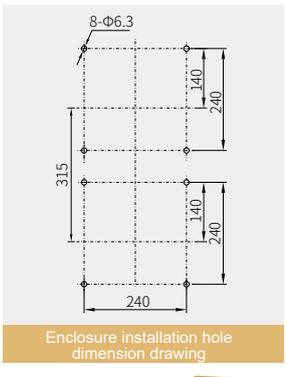
Enclosure installation hole dimension drawing

XM-12





Schematic diagram of knockout position

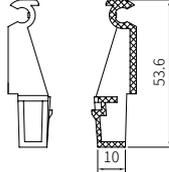
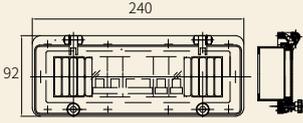
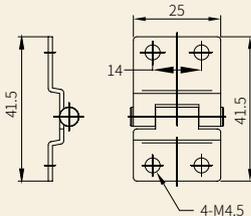
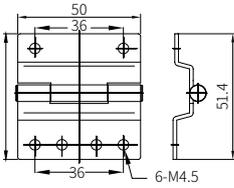


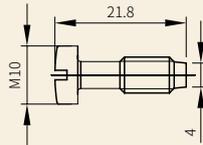
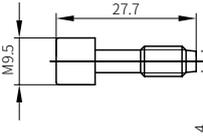
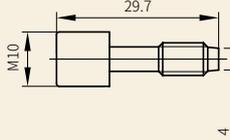
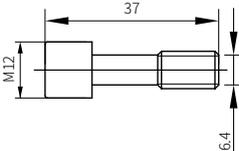
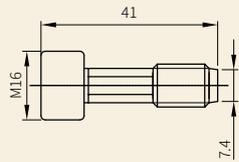
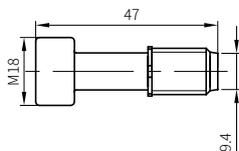
Enclosure installation hole dimension drawing

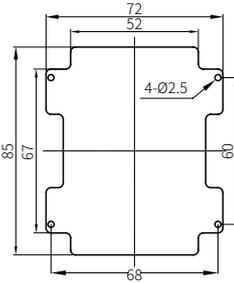
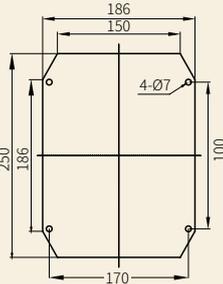
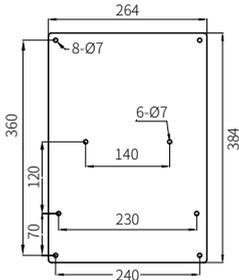
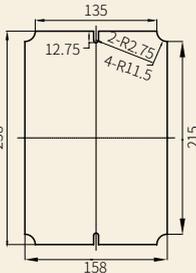
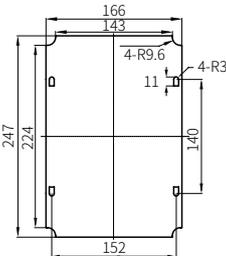
XM-24

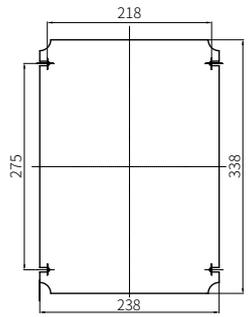
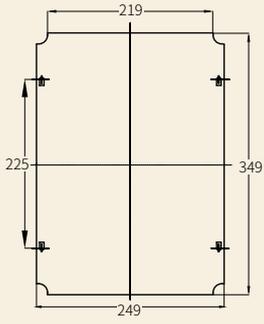
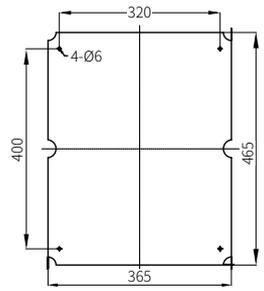
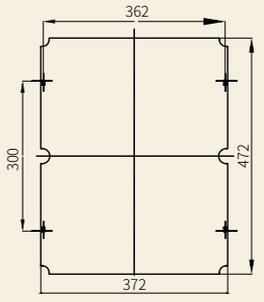
XM

### ◎ Accessories

Name & photo (or sketch)	Order code	Material	Dimension	Applicable product
Support 	19F-01	PC		XK-9
Operating window (maintenance box) 	19F-03	Base: ABS Transparent cover: PC		XX (maintenance box)
Sealing tape (wearing part) 	19F-05	Silicon sponge sealing tape	Φ2.5	XK-A1~XK-A5 XK-B1~XK-B5 XK-C1~XK-C4
	19F-06	Silicon sponge sealing tape	Φ3	XK-7
	19F-07	Silicon sponge sealing tape	Φ3.5	XK-8
	19F-08	Silicon sponge sealing tape	Φ4	XK-9, XK-10, XX
	19F-09	Silicon sponge sealing tape	Φ4.5	XK-B1~XK-B5 XK-C1~XK-C4
Hinge 	19F-10	Q235		XK-13
Hinge 	19F-11	Q235		XK-14, XK-15, XK-16

Name & photo (or sketch)	Order code	Material	Dimension	Applicable product
Cross recessed pan head self-tapping screw GB845 	19F-12	Q235		For fixing guide rail and mounting plate (except for XK-6 series)
Screw (spherical pan head cross recess) 	19F-16	Nylon		XK-C1~XK-C5
Screw (cylinder head cross recess) 	19F-17	Nylon		XK-B1~XK-B5, XK-11
Screw (cylinder head cross recess) 	19F-18	Nylon		XK-12
Screw (cylinder head cross recess) 	19F-19	Nylon		XK-8, XM-9, XM-12
Screw (cylinder head cross recess) 	19F-20	Nylon		XK-9, XK-10, XX, XK-13
Screw (cylinder head cross recess) 	19F-21	Nylon		XK-14, XK-15, XK-16

Name & photo (or sketch)	Order code	Material	Dimension	Applicable product
Bottom plate (used inside the enclosure) 	19F-13	Q235		XK-6
Bottom plate (used inside the enclosure) 	19F-14	Q235		XK-8
Bottom plate (used inside the enclosure) 	19F-15	Q235		XK-9, XK-10, XX
Lower mounting plate 	19F-28	Q235		XK-13
Upper mounting plate 	19F-29	Q235		XK-13

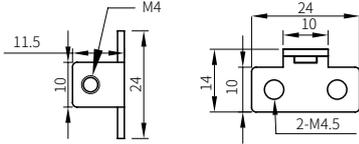
Name & photo (or sketch)	Order code	Material	Dimension	Applicable product
<p>Lower mounting plate</p> 	19F-32	Q235		XK-14
<p>Upper mounting plate</p> 	19F-33	Q235		XK-14
<p>Lower mounting plate</p> 	19F-34	Q235		XK-15、XK-16
<p>Upper mounting plate</p> 	19F-35	Q235		XK-15、XK-16

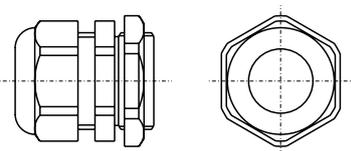
# ACCESSORIES

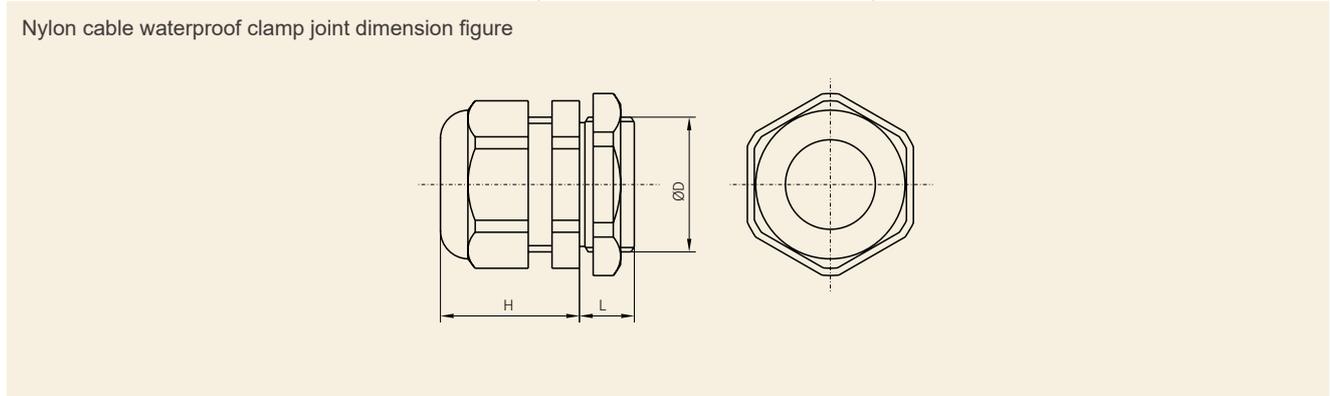
XK / XX / XM

series

CONTROL CABINET / MAINTENANCE BOX / LIGHTING BOX

Name & photo (or sketch)	Order code	Material	Dimension	Applicable product
Supporting plate 	19F-27	Q235		XK-8、XK-12、 XK-13、XK-14、 XK-15、XK-16
Big hole plug 	19F-30	ABS	Φ13	XK-14、XK-16、 XK-15
Small hole plug 	19F-31 PH10	ABS	Φ10	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

Name & photo (or sketch)	Specification	Material
Waterproof joint of the cable  	pg13.5	Main part: Nylon; Sealing element: NBR
	pg16	
	pg21	
	pg29	
	pg36	



Order code Ordinary pg thread	Bayonet range mm	Φ Dmm	L mm	H mm
HSK-P, pg7	3 ~ 6.5	12.5	8	20
HSK-P, pg9	4 ~ 8	15.2	8	22
HSK-P, pg11	5 ~ 10	18.6	8	24
HSK-P, pg13.5	6 ~ 12	20.4	9	27
HSK-P, pg16	10 ~ 14	22.5	10	28

Order code Ordinary pg thread	Bayonet range mm	Φ Dmm	L mm	H mm
HSK-P, pg21	13 ~ 18	28.3	11	30
HSK-P, pg29	18 ~ 25	37	11	38
HSK-P, pg36	22 ~ 32	47	13	45
HSK-P, pg42	32 ~ 38	54	13	47
HSK-P, pg48	37 ~ 44	59.3	14	47