



security door opens and closes, the Security Butler beside you!

4 Series

Various types



11 KINDS OF

Universal operating keys Except KXS Series IP65

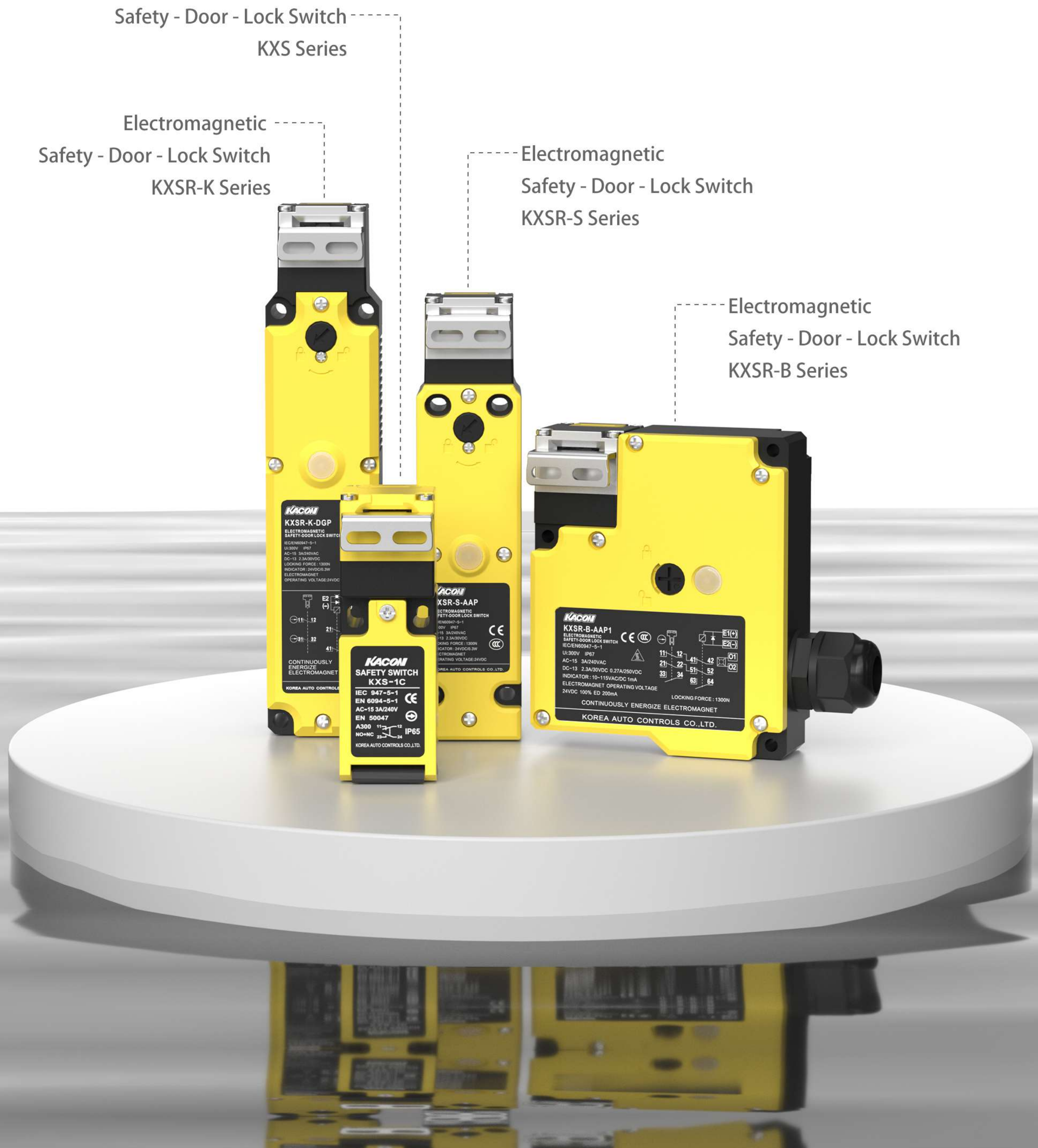
IP67

1300N

Latching force
Except KXS Series

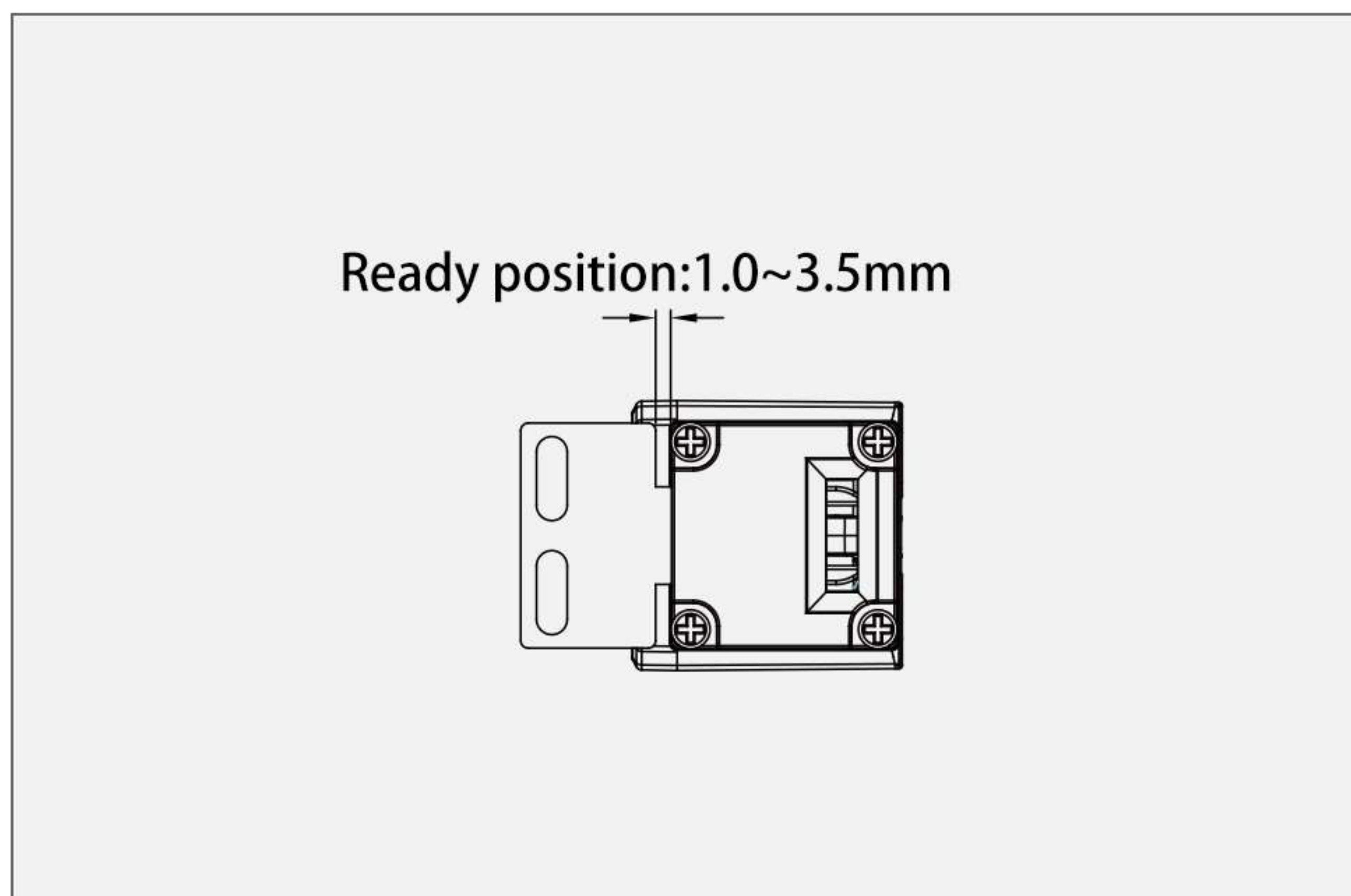
EMERGENCY RELEASE

Emergency release of the rear
Emergency release of the bottom
Without Emergency release

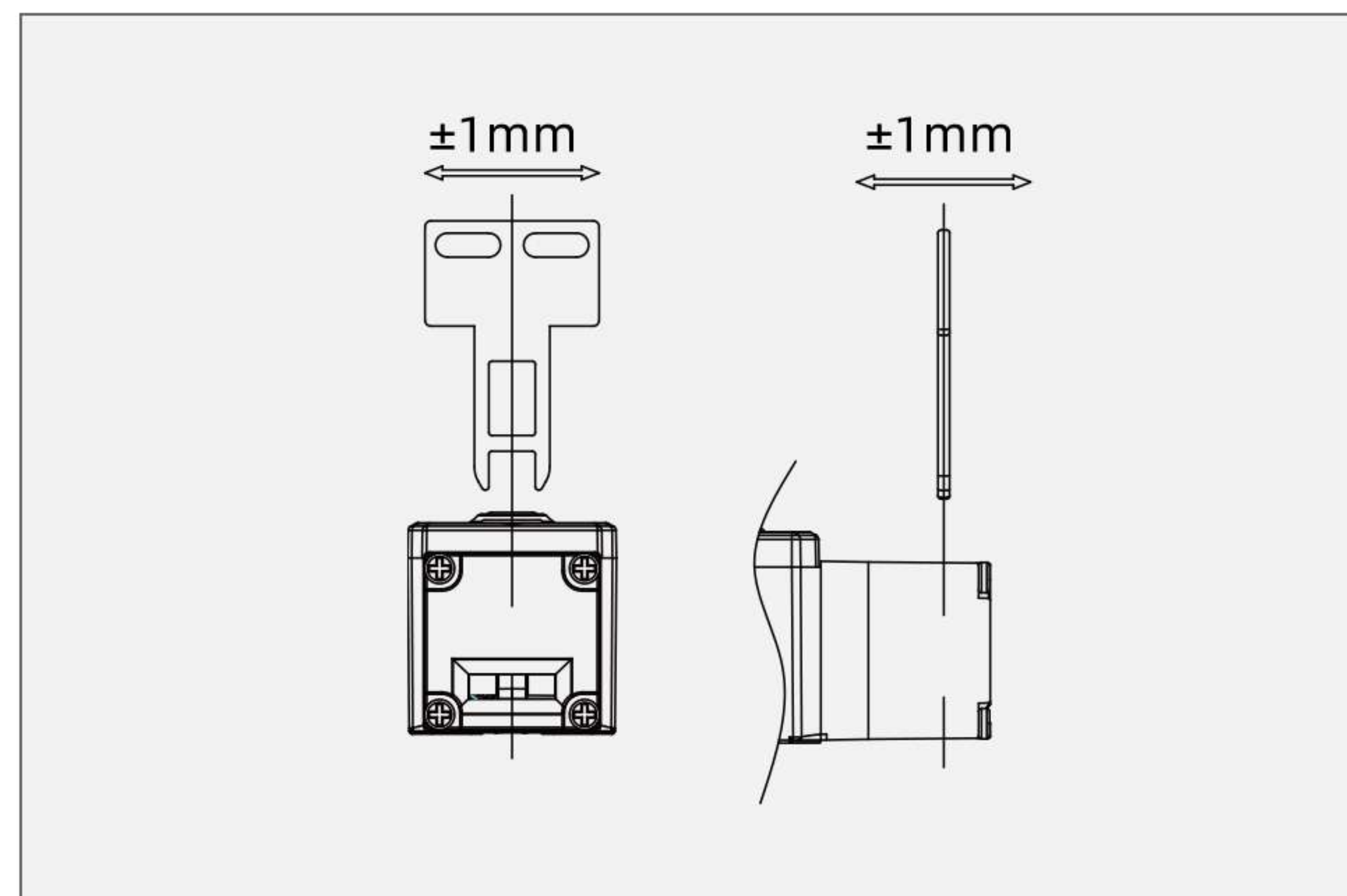


Keys are easy to insert

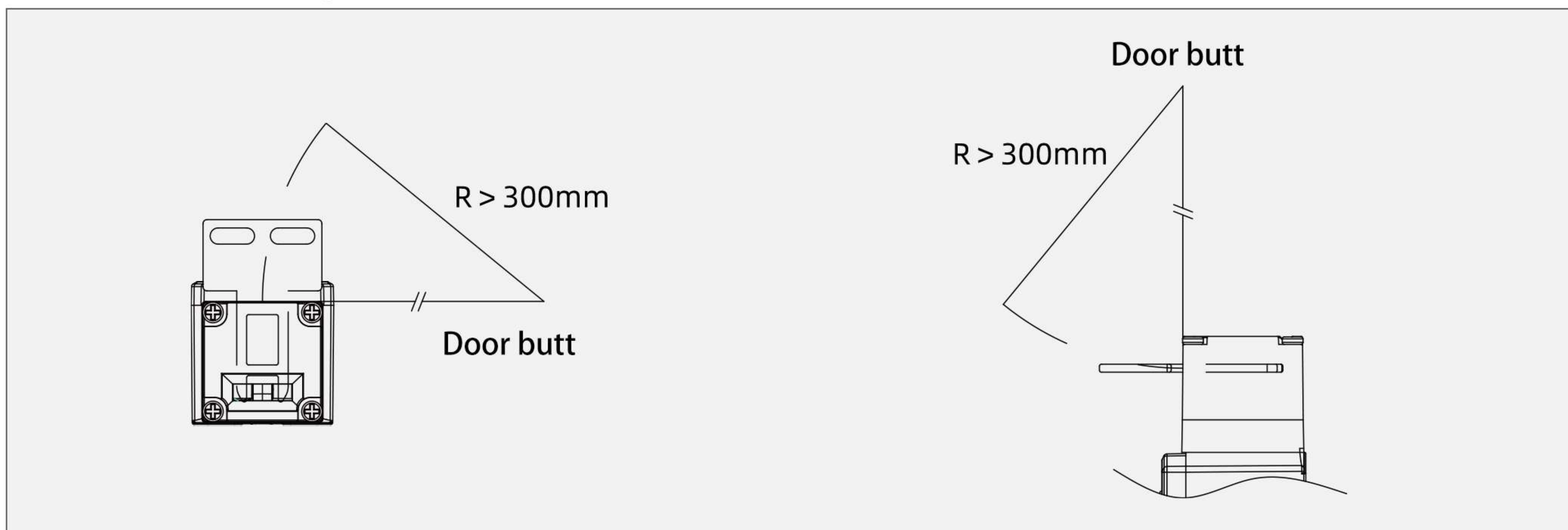
Install switches and operation keys in the required position range (1~3.5mm)



Insert hole center ± 1 mm



When installed on a horizontally opened door, the radius must be greater than the minimum.



High density and good durability

Optional Metal heads

(Except KXS Series)

Reduce wear and damage caused by looseness during insertion.



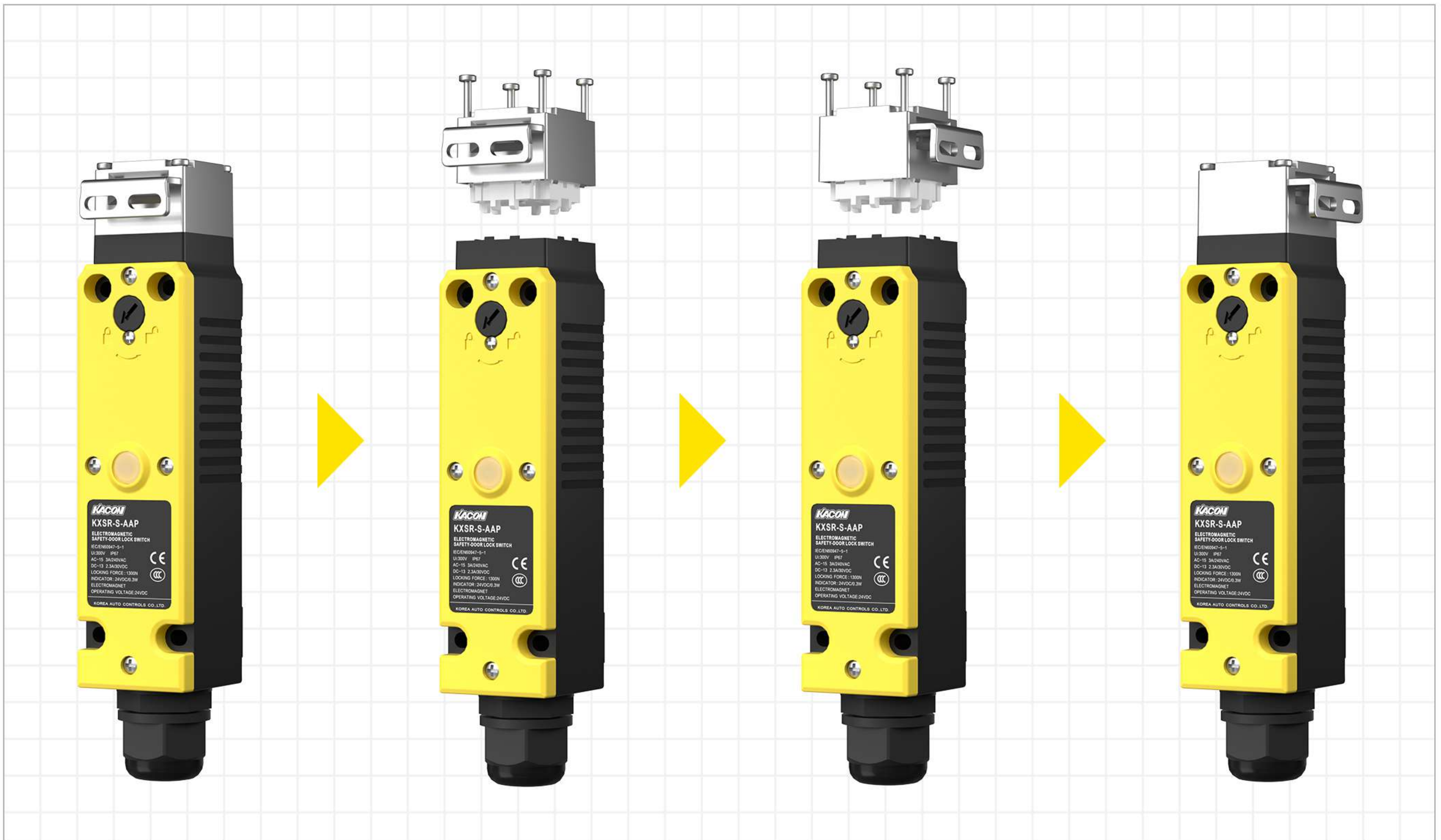
Indicator design

Check working operation

Head turning operation demonstration

Loosen the 4 screws at the top of the head, rotate the head direction, and select the appropriate operating keyhole position before mounting.

Attention please: Make sure to insert the operating key before turning the head! Otherwise, the switch will be damaged!



High quality

LED indicator

Electromagnetic
Safety - Door - Lock Switch
Bright and with long lifespan



Design to reduce man-hours



Kacon patented design

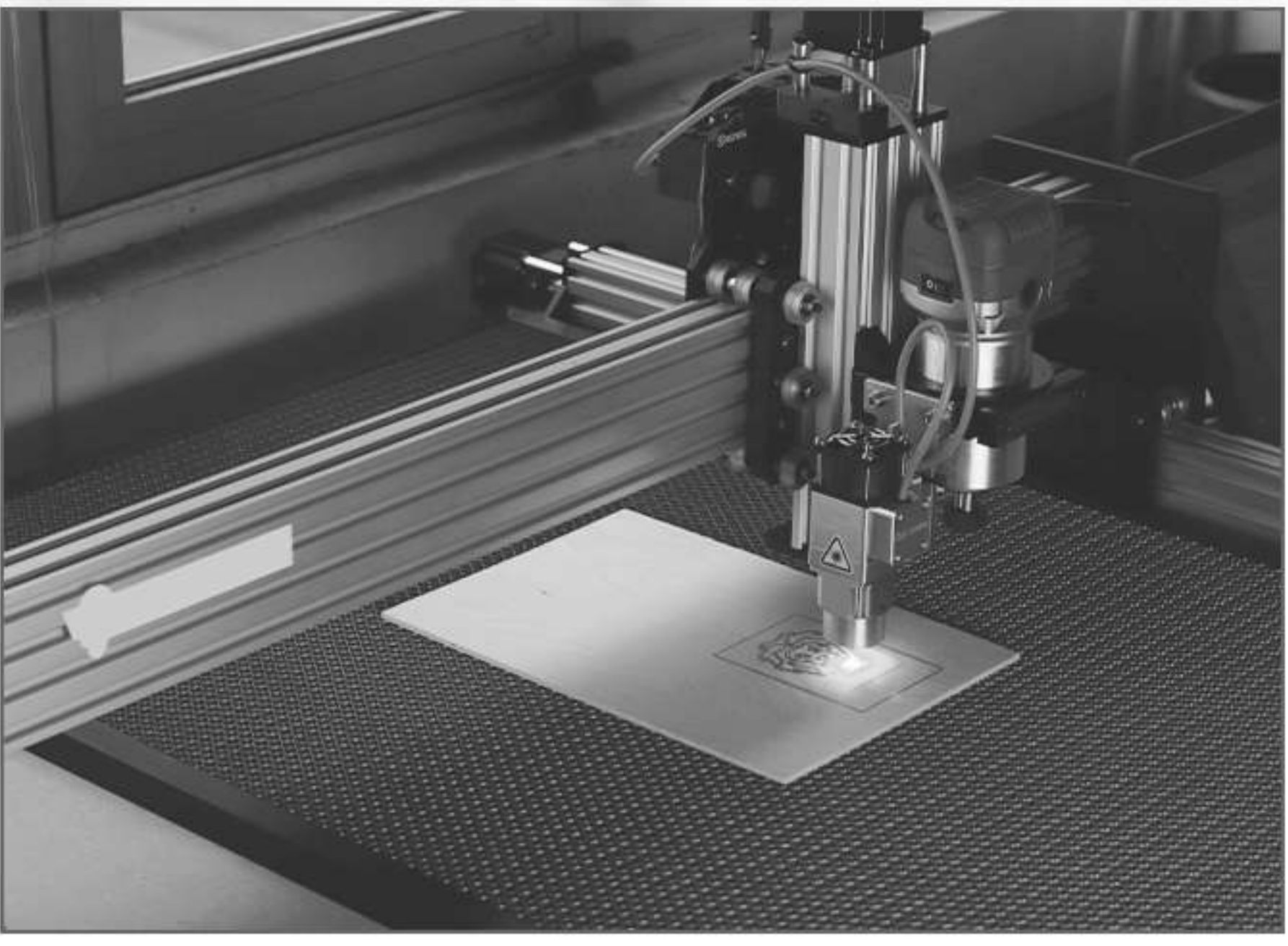
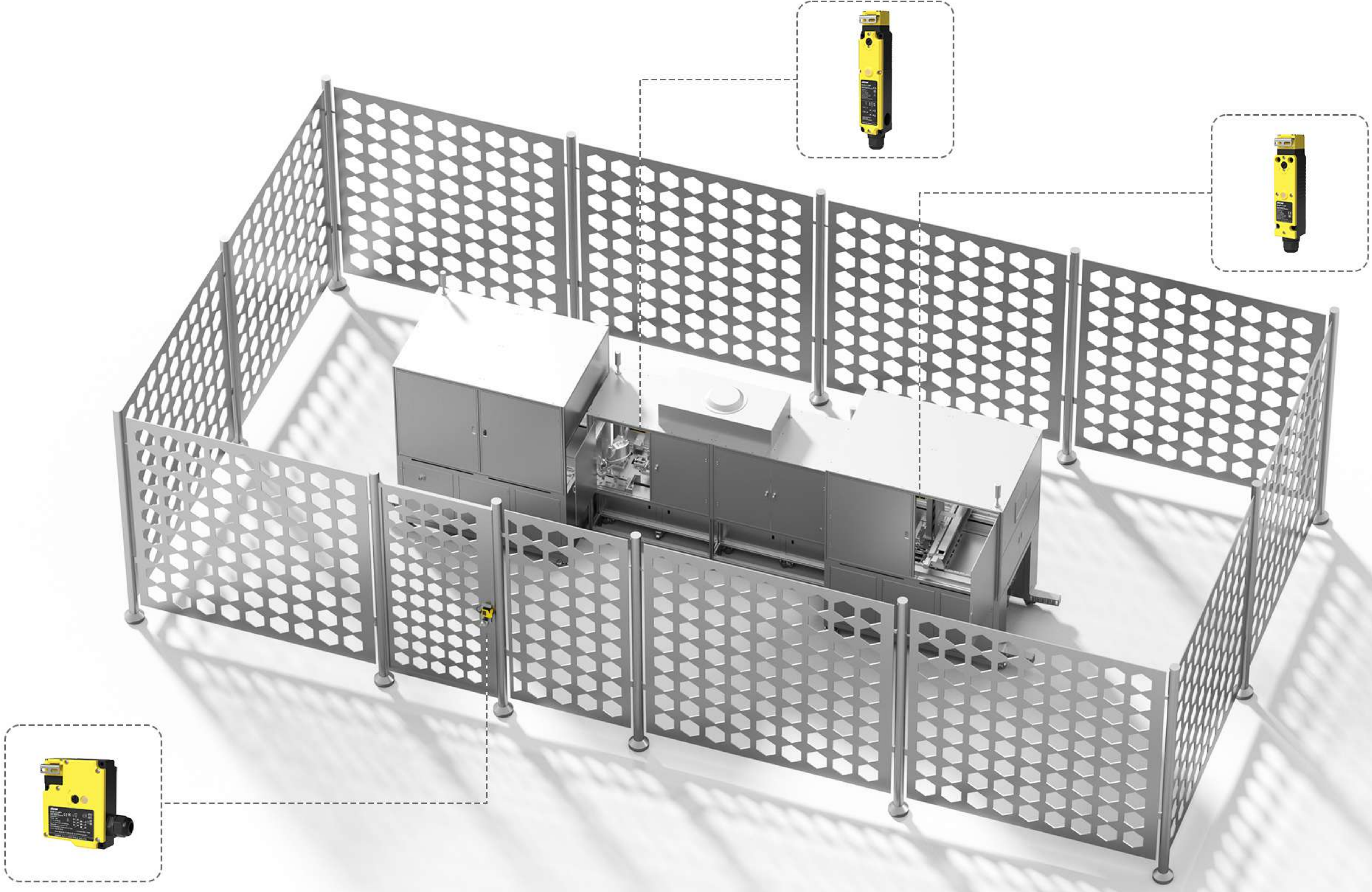
KXSR-K Series, KXSR-S Series

The contacts used for monitoring the door and the contact used for magnetic monitoring have many combinations, the following content is taken as an example, and the specific combination style is selected according to the catalog.



Applications

Safety door switches with locking function ensure that safety guards, doors and other protective covers remain safe as long as the dangerous situation is not eliminated.



Electromagnetic Safety - Door - Lock Switch

KXSR-K Series (Universal type with KXS-K2 key)



KXSR-K-① ② ③ - ④

①	Contact type (Door monitoring contact + Lock monitoring contact)	
A	1NC/1NO(slow-action contact)	+ 1NC/1NO(slow-action contact)
B	1NC/1NO(slow-action contact)	+ 2NC(slow-action contact)
C	2NC(slow-action contact)	+ 1NC/1NO(slow-action contact)
D	2NC(slow-action contact)	+ 2NC(slow-action contact)
E	2NC/1NO(slow-action contact)	+ 1NC(slow-action contact)
F	1NC/2NO(slow-action contact)	+ 1NC(slow-action contact)
G	3NC(slow-action contact)	+ 1NC(slow-action contact)
H	1NC(slow-action contact)	+ 3NC(slow-action contact)
I	1NC(slow-action contact)	+ 1NC/2NO(slow-action contact)
J	1NC(slow-action contact)	+ 2NC/1NO(slow-action contact)
W	1NO(slow-action contact)	+ 3NC(slow-action contact)
X	1NO(slow-action contact)	+ 2NC/1NO(slow-action contact)
Y	2NC(slow-action contact)	+ 2NO(slow-action contact)
Z	2NO(slow-action contact)	+ 2NC(slow-action contact)

②	Locking method
A	Mechanical locking/DC24V electromagnetic release
G	Mechanical release/DC24V electromagnetic locking

③	Head material
M	Metal
P	Plastic

④	Emergency release of the rear side
None	No
N	Yes

Electromagnetic Safety - Door - Lock Switch

KXSR-S Series (Universal type with KXS-K2 key)



KXSR-S- ① ② ③

①	Contact type (Door monitoring contact + Lock monitoring contact)	
A	1NC(slow-action contact)	+ 1NC(slow-action contact)
B	None	+ 2NC(slow-action contact)
C	2NC(slow-action contact)	+ None
D	1NC/1NO(slow-action contact)	+ None
E	1NO(slow-action contact)	+ 1NC(slow-action contact)
F	None	+ 1NC/1NO(slow-action contact)

②	Locking method
A	Mechanical locking/DC24V electromagnetic release
G	Mechanical release/DC24V electromagnetic locking

③	Head material
M	Metal
P	Plastic

Electromagnetic Safety - Door - Lock Switch

KXSR-B Series (Universal type with KXS-K2 key)



KXSR-B-① ② ③ ④ ⑤

①	Contact type (Door monitoring contact + Lock monitoring contact)
A	2NC/1NO(slow-action contact) + 2NC/1NO(slow-action contact)
F	3NC(slow-action contact) + 2NC/1NO(slow-action contact)
G	2NC/1NO(slow-action contact) + 3NC
H	3NC(slow-action contact) + 3NC

②	Locking method
A	Mechanical locking/DC24V electromagnetic release
G	Mechanical release/DC24V electromagnetic locking
B	Mechanical release/AC110V electromagnetic locking
H	AC110VMechanical locking/electromagnetic release

③	Head material
M	Metal
P	Plastic

④	Conduit size
1	M20x1.5
2	PG13.5

⑤	Key release position
None	Bottom
S	Front

Safety Switch

KXS Serise (Keys needs to be purchased separately)



KXS- ① ②

①	Contact
1C	1a+1b
2B	2b

②	Size of conduit / connector
1	M20x1.5
2	PG13.5

● KXSR-K-□□□-□

Indicator specification

Rated voltage	24VDC
Rated current	1mA
Color	Green

Built-in coil specification

Rated working voltage	DC24V ±10%
Rated current	200mA (Initial value)
Power	4.8W
Insulation degree	B degree(130°C)

Working performance

Part number	KXSR-K-□□□-□	
Head/shell material	Head: PA66 flame retardant, zinc/ Shell: P66 flame retardant	
Contact material	Silver alloy gold plated	
Protection class	IP67 (EN60947-5-1, except key operation hole)	
Lifespan	Mechanical: Min. 1 million times	
	Electrical: Min. 150,000 times	
Tensile strength at locking	1300N	
Rated insulation voltage (Ui)	300V	
Impulse withstand voltage (Uimp)	2.5kV	
Conventional free air thermal current (Ith)	10A	
Type of use	AC-15	DC-13
Rated working voltage (Ue)	240V	30V
Rated working current (Ie)	3A	2.3A
Conditional short-circuit current	1000A	
Direct releasing force	≥80N	
Direct releasing travel	≥10mm	
Allowable operating speed	0.05~0.5m/s	
Allowable operating frequency	Maximum 20 operations per minute	
Ambient temperature	-20°C~+60°C, with no ice	
Ambient humidity	≤85%RH	

● KXSR-S-□□□

Indicator specification

Rated voltage	24VDC
Rated current	1mA
Color	Green

Built-in coil specification

Rated working voltage	DC24V ±10%
Rated current	200mA (Initial value)
Power	4.8W
Insulation degree	B degree(130°C)

Working performance

Part number	KXSR-S-□□□	
Head/shell material	Head: PA66 flame retardant, zinc/ Shell: P66 flame retardant	
Contact material	Silver alloy gold plated	
Protection class	IP67 (EN60947-5-1, except key operation hole)	
Lifespan	Mechanical: Min. 1 million times	
	Electrical: Min. 150,000 times	
Tensile strength at locking	1300N	
Rated insulation voltage (Ui)	300V	
Impulse withstand voltage (Uimp)	2.5kV	
Conventional free air thermal current (Ith)	10A	
Type of use	AC-15	DC-13
Rated working voltage (Ue)	240V	30V
Rated working current (Ie)	3A	2.3A
Conditional short-circuit current	1000A	
Direct releasing force	≥60N	
Direct releasing travel	≥10mm	
Allowable operating speed	0.05~0.5m/s	
Allowable operating frequency	Maximum 20 operations per minute	
Ambient temperature	-20°C~+60°C, with no ice	
Ambient humidity	≤85%RH	

● KXSR-B-□□□□□

Indicator specification

Rated voltage	10~115VAC/DC
Rated current	1mA
Color	Green

Built-in coil specification

Rated working voltage	DC24V ±10%
Rated current	200mA (Initial value)
Power	4.8W
Insulation degree	B degree(130°C)

Working performance

Part number	KXSR-B-□□□□□		
Head/shell material	Head: PA66 flame retardant, zinc/ Shell: P66 flame retardant		
Contact material	Silver alloy gold plated		
Protection class	IP67 (EN60947-5-1, except key operation hole)		
Lifespan	Mechanical: Min. 1 million times		
	Electrical: Min. 150,000 times		
Tensile strength at locking	1300N		
Rated insulation voltage (Ui)	300V		
Impulse withstand voltage (Uimp)	2.5kV		
Conventional free air thermal current (Ith)	10A		
Type of use	AC-15	DC-13	
Rated working voltage (Ue)	240V	30V	250V
Rated working current (Ie)	3A	2.3A	0.27A
Conditional short-circuit current	1000A		
Direct releasing force	≥60N		
Direct releasing travel	≥10mm		
Allowable operating speed	0.05~0.5m/s		
Allowable operating frequency	Maximum 20 operations per minute		
Ambient temperature	-20°C~+60°C, with no ice		
Ambient humidity	≤85%RH		

● KXS-□□

Rated voltage	Non-inductive load				Inductive load			
	Resistive load		LED load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10		3	1.5	10		5	2.5
250VAC	10		2	1	10		3	1.5
400VAC	10		1.5	0.8	3		1.5	0.8
8VDC	10		6	3	10		6	6
14VDC	10		6	3	10		6	6
30VDC	6		4	3	6		4	4
125VDC	0.8		0.2	0.2	0.8		0.2	0.2
250VDC	0.4		0.1	0.1	0.4		0.1	0.1

Specification

Part number	KXS-□□
Rated current	3A 240VAC (A300)
Operating speed	0.1m~0.5m/s
Operating frequency	30 times/min
Contact resistance	≤ 25mΩ (Initial stage)
Insolation resistance	≥ 100mΩ (≤ 500VDC)
Insolation voltage	400V
Dielectric strength	AC2500V/Umip 4KV
Vibration	10 - 55Hz, 1.5mm double amplitude
Shock	Mechanical durability: Min.1000m/s ² (About Min.100G)
	Malfunction durability: Min. 300m/s ² (About Mi. 30G)
Ambient temperature	-20~+70°C (With no ice)
Ambient humidity	< 95%RH
Electrical lifespan	Min. 150,000 times
Waterproof protection class	IP65 (IEC standard)

● KXSR-K-□□□-□

Electromagnetic lock type

Action status of safety door		State 1	State 2	State 3	State 4	When unlocking manually		
		Closed	Closed	Opened	Opened	Closed	Opened	
Solenoid power supply		ON	OFF	ON	OFF	or		
Part number and Contact form	KXSR-K-AGP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	
	KXSR-K-BGP 	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42
	KXSR-K-CGP 	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44
	KXSR-K-DGP 	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42
	KXSR-K-EGP 	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42
	KXSR-K-FGP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44
	KXSR-K-GGP 	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42

Note: After manual unlocking, the safety door is open, please do not apply voltage to the electromagnet for a long time.

● KXSR-K-□□□-□

Electromagnetic lock type

Action status of safety door		State 1	State 2	State 3	State 4	When unlocking manually		
		Closed	Closed	Opened	Opened	Closed	Opened	
Solenoid power supply		ON	OFF	ON	OFF	or		
Part number and Contact form	KXSR-K-HGP 	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	
	KXSR-K-IGP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44
	KXSR-K-JGP 	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42
	KXSR-K-WGP 	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42
	KXSR-K-XGP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44
	KXSR-K-YGP 	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44
	KXSR-K-ZGP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44

Note: After manual unlocking, the safety door is open, please do not apply voltage to the electromagnet for a long time.

● KXSR-K-□□□-□

Mechanical lock type

Action status of safety door		State 1	State 2	State 3	State 4	When unlocking manually		
		Closed	Closed	Opened	Opened	Closed	Opened	
Solenoid power supply		ON	OFF	ON	OFF	or		
Part number and Contact form	KXSR-K-AAP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	
	KXSR-K-BAP 	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42
	KXSR-K-CAP 	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44	11 12 21 22 31 32 43 44
	KXSR-K-DAP 	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42
	KXSR-K-EAP 	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42
	KXSR-K-FAP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44
	KXSR-K-GAP 	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42

Note: In case of emergencies such as the operation state of the door before wiring and power-on, or power failure, the lock of the operation key can be manually released.

● KXSR-K-□□□-□

Mechanical lock type

Action status of safety door		State 1	State 2	State 3	State 4	When unlocking manually		
		Closed	Closed	Opened	Opened	Closed	Opened	
Solenoid power supply		ON	OFF	ON	OFF	or		
Part number and Contact form	KXSR-K-HAP 	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	11 12 21 22 31 32 41 42	
	KXSR-K-IAP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44
	KXSR-K-JAP 	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42
	KXSR-K-WAP 	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42	11 12 21 22 33 34 41 42
	KXSR-K-XAP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44
	KXSR-K-YAP 	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44	11 12 23 24 31 32 43 44
	KXSR-K-ZAP 	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44	11 12 21 22 33 34 43 44

Note: In case of emergencies such as the operation state of the door before wiring and power-on, or power failure, the lock of the operation key can be manually released.

● KXSR-K-□□□-□


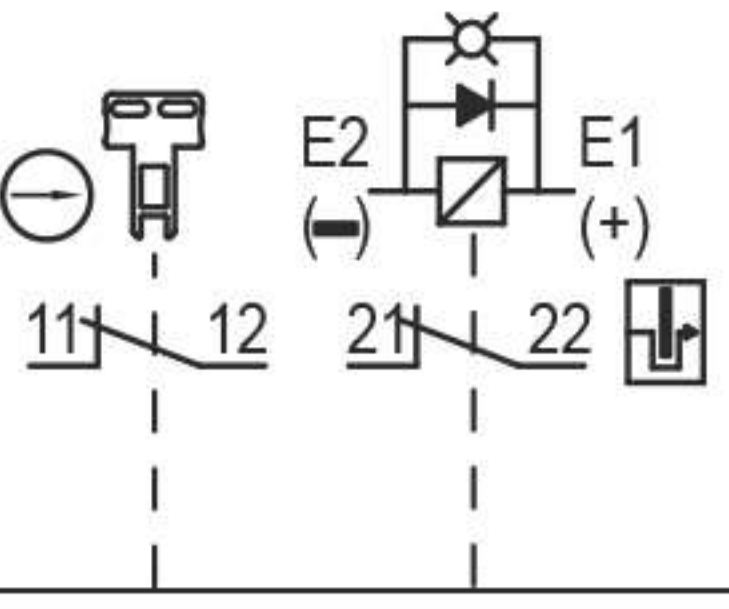
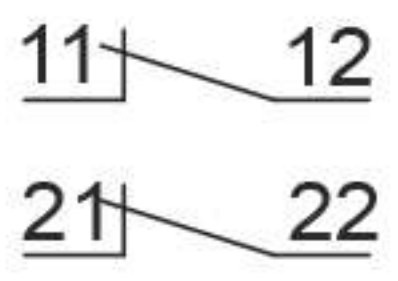
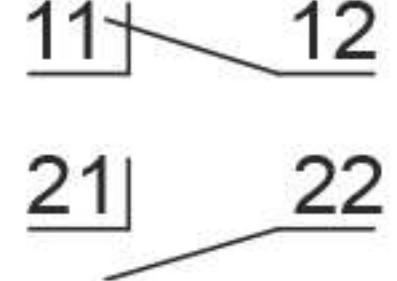
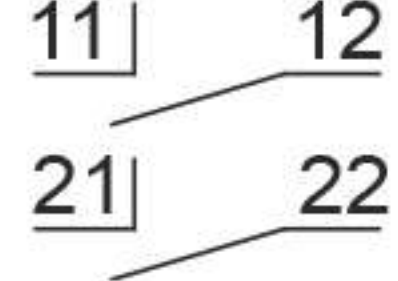
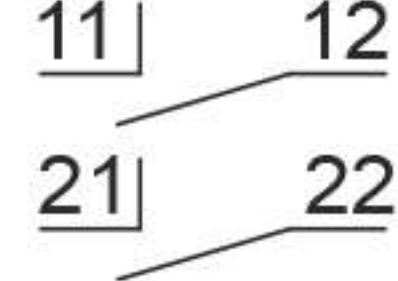
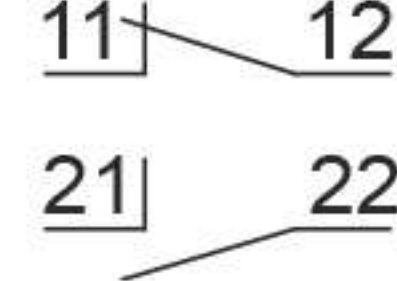
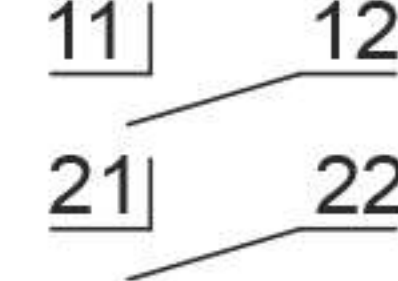
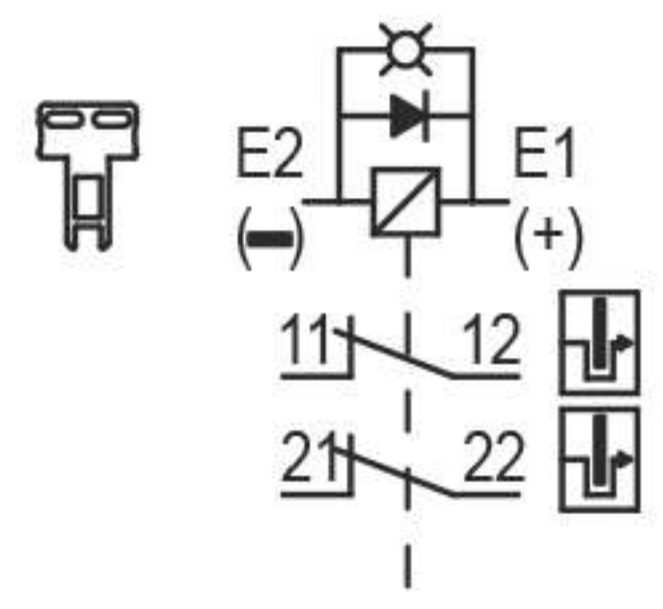
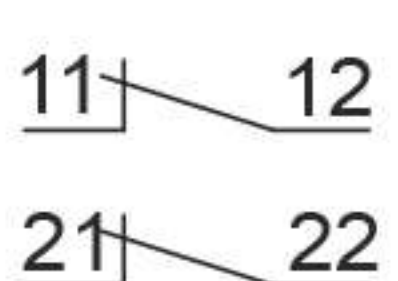
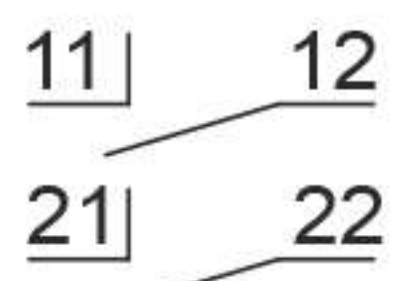
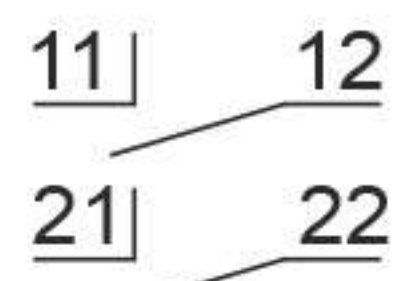
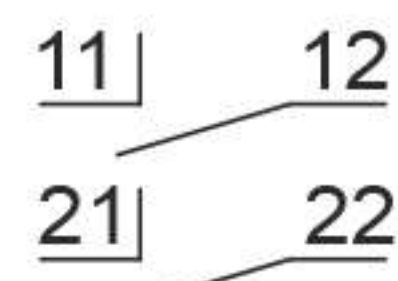
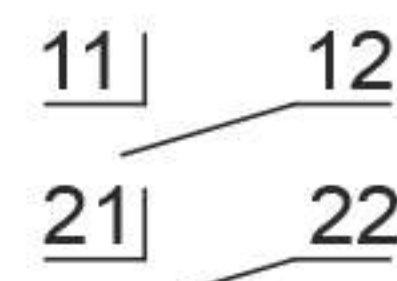
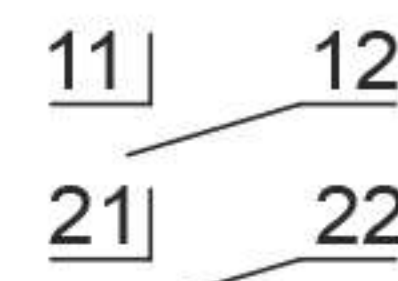
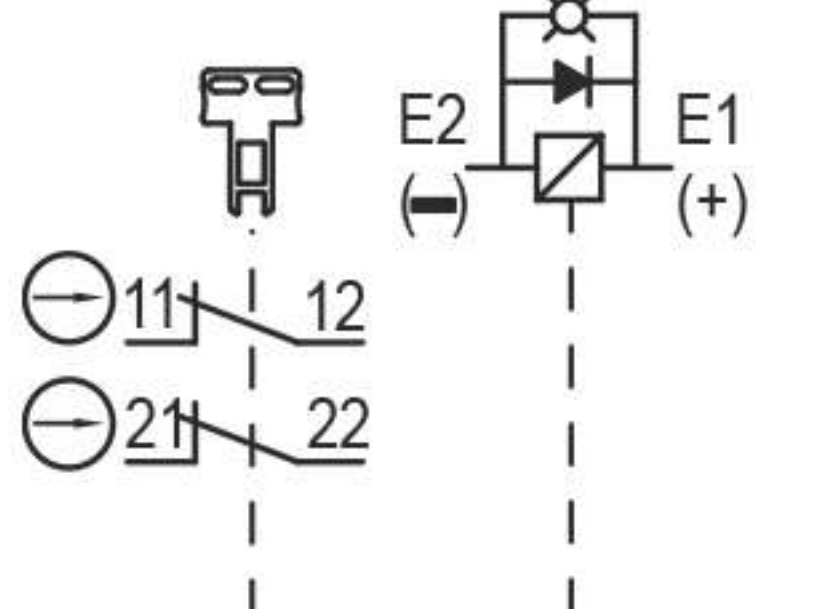
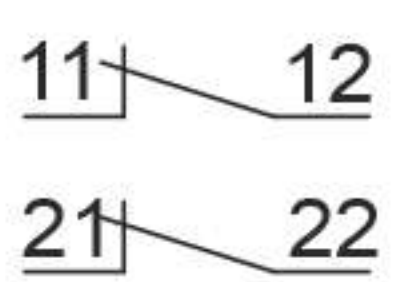
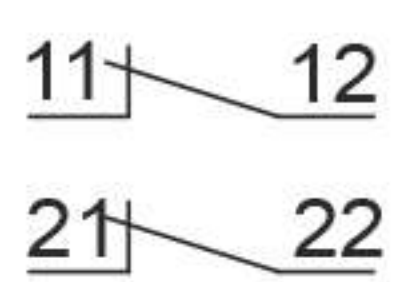
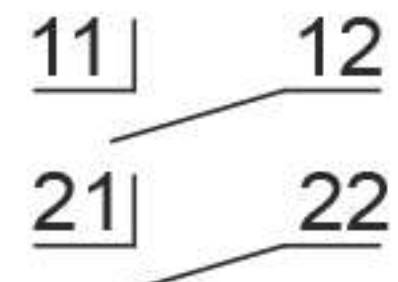
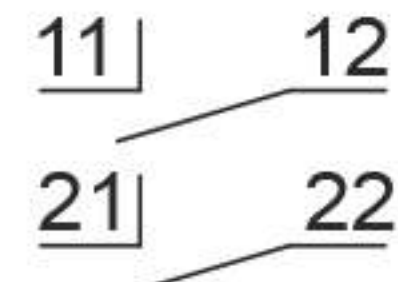
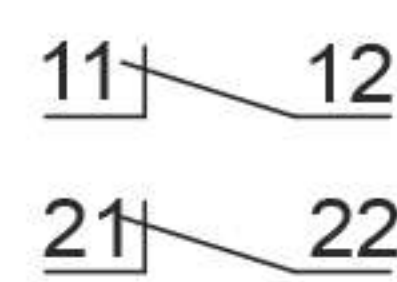
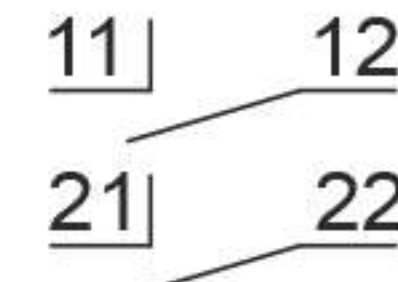
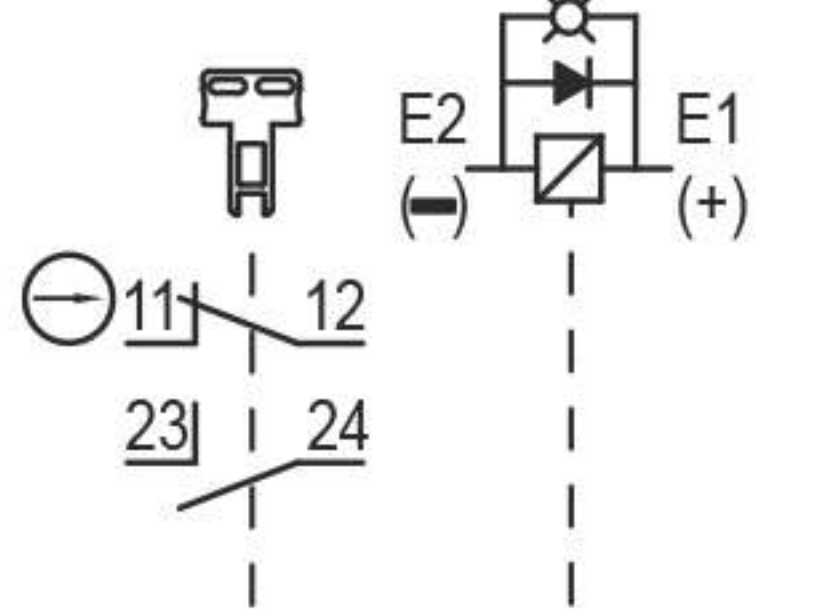
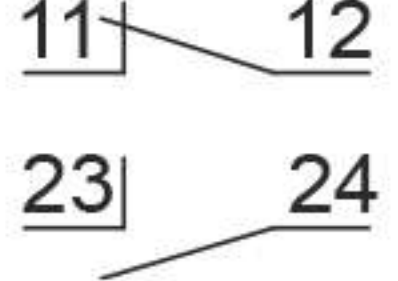
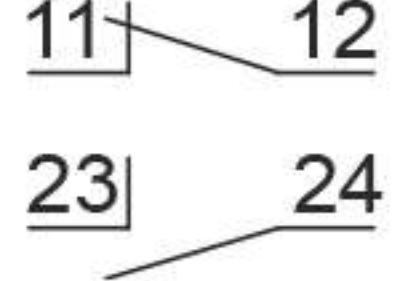
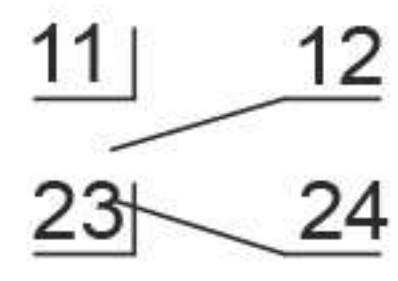
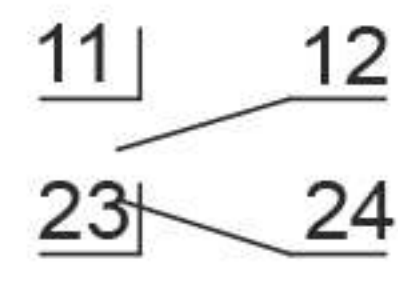
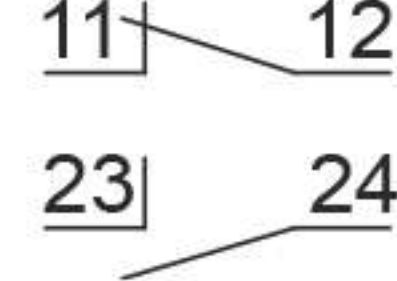
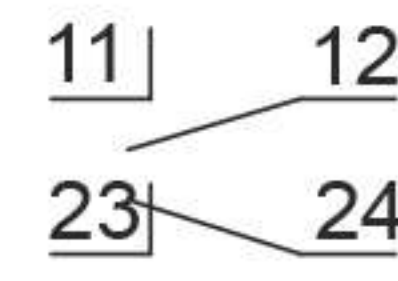
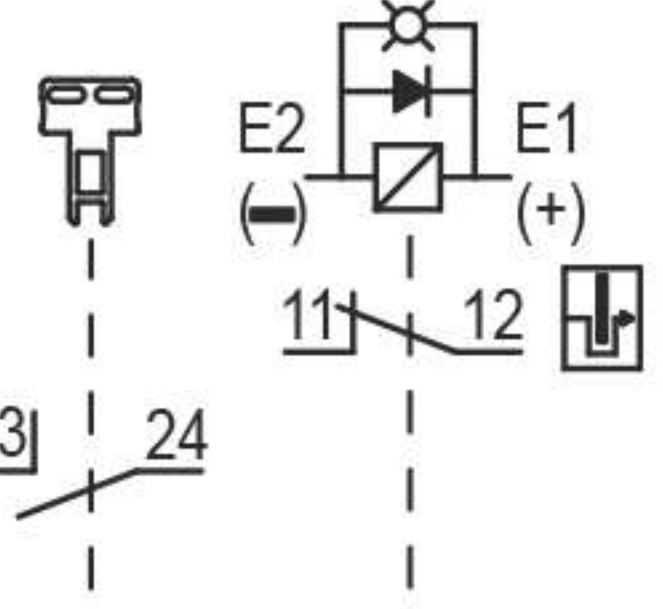
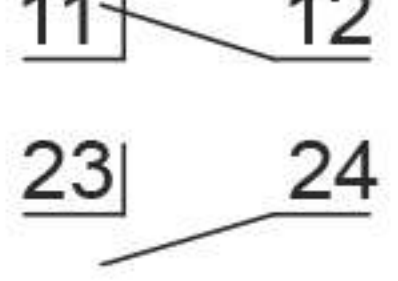
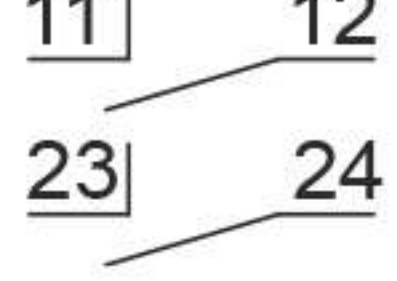
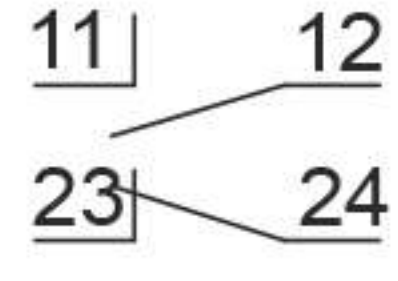
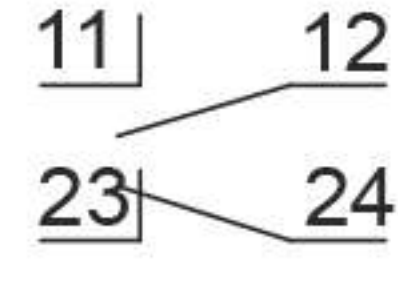
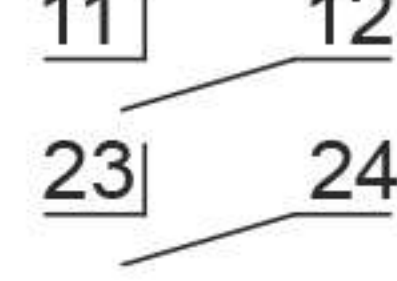
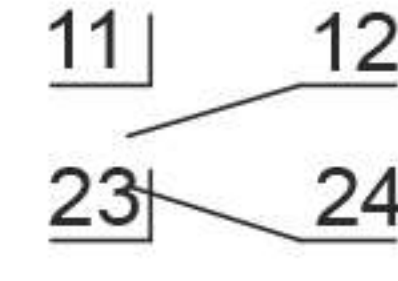
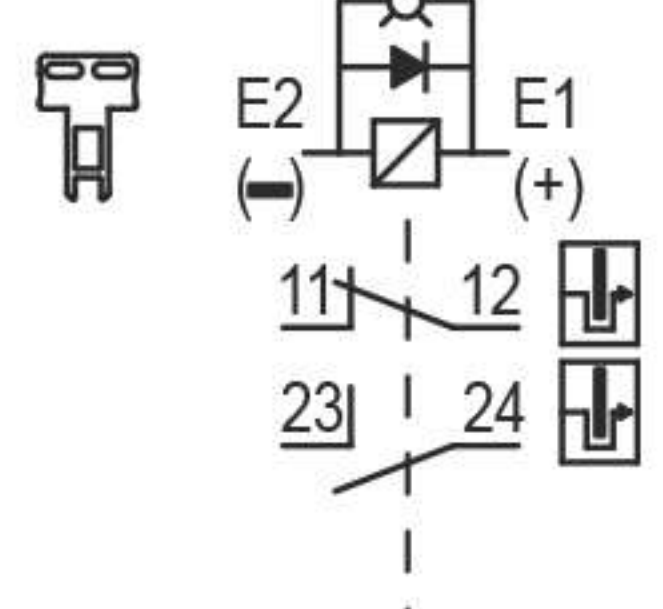
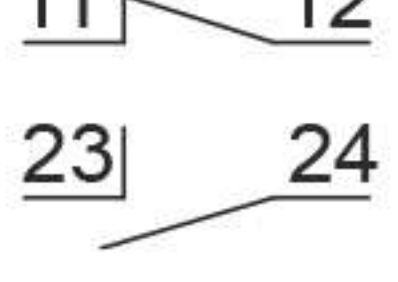
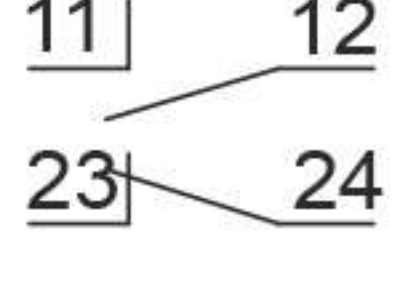
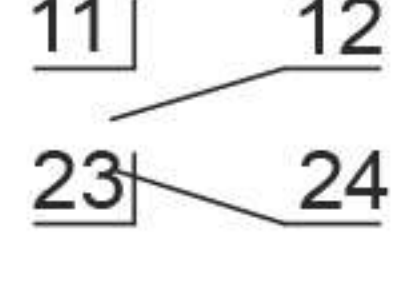
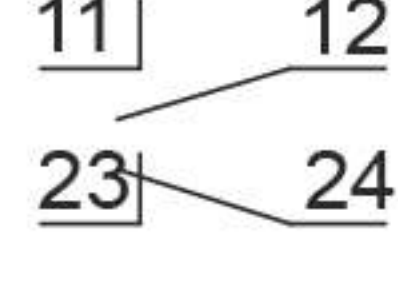
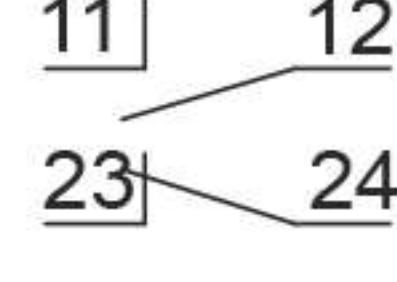
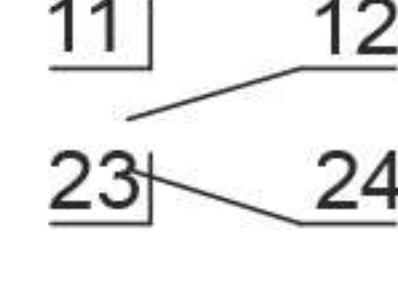
The following wiring diagram shows the operation key inserted and in the lock key state.

Part number	Contact type (Door monitoring + Lock monitoring)	Wiring diagram		Contact action	
		Door monitoring	Lock monitoring	■:Contact ON □:Contact OFF	
KXSR-K-AGP KXSR-K-AAP	1NC/1NO+1NC/1NO				
KXSR-K-BGP KXSR-K-BAP	1NC/1NO+2NC				
KXSR-K-CGP KXSR-K-CAP	2NC+1NC/1NO				
KXSR-K-DGP KXSR-K-DAP	2NC+2NC				
KXSR-K-EGP KXSR-K-EAP	2NC/1NO+1NC				
KXSR-K-FGP KXSR-K-FAP	1NC/2NO+2NC				
KXSR-K-GGP KXSR-K-GAP	3NC+1NC				
KXSR-K-HGP KXSR-K-HAP	1NC+3NC				
KXSR-K-IGP KXSR-K-IAP	1NC+1NC/2NO				
KXSR-K-JGP KXSR-K-JAP	1NC+2NC/1NO				
KXSR-K-WGP KXSR-K-WAP	1NO+3NC				
KXSR-K-XGP KXSR-K-XAP	1NO+2NC/1NO				
KXSR-K-YGP KXSR-K-YAP	2NC+2NO				
KXSR-K-ZGP KXSR-K-ZAP	2NO+2NC				

Note: In case of emergencies such as the operation state of the door before wiring and power-on, or power failure, the lock of the operation key can be manually released.

● KXSR-S-□□□


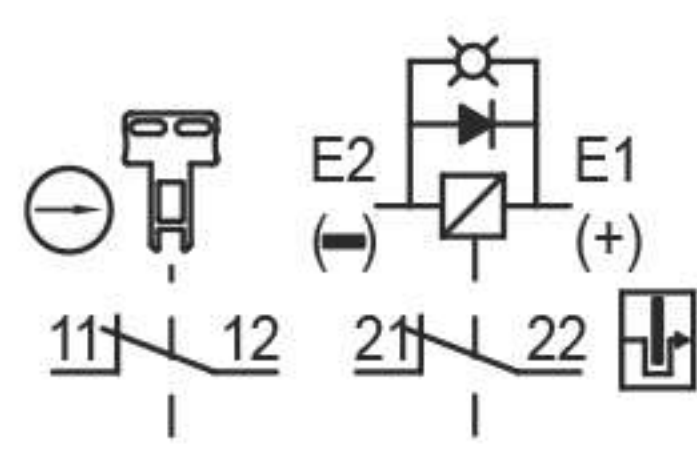
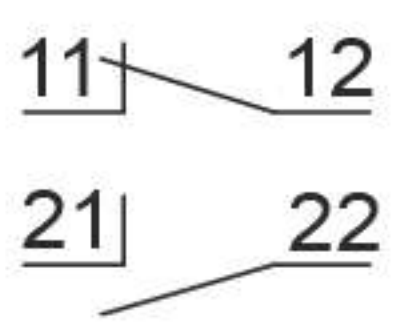
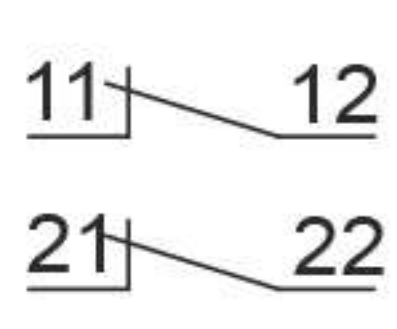
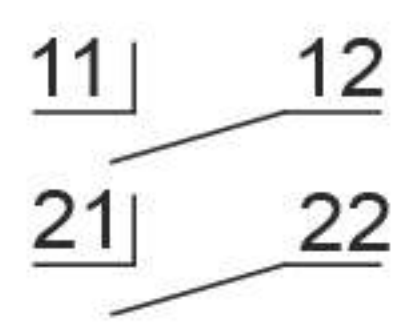
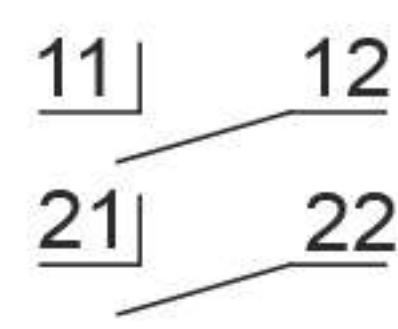
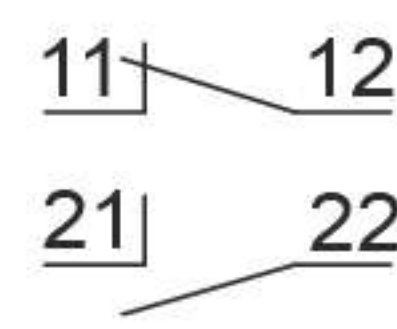
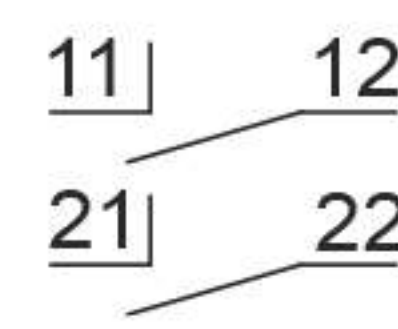
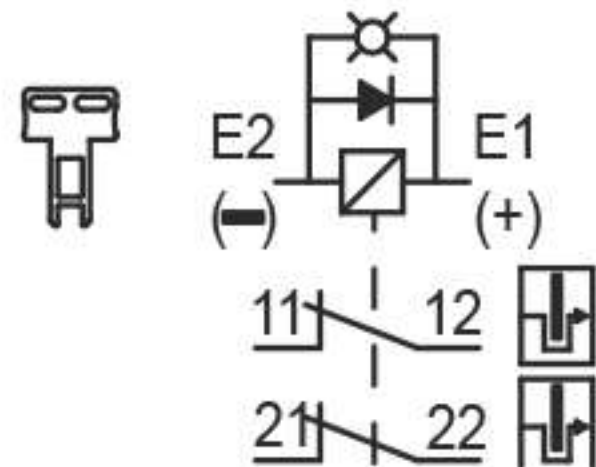
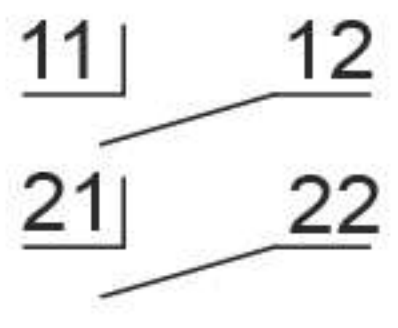
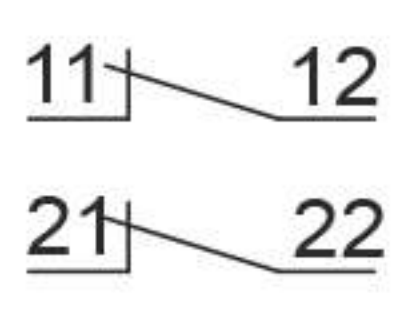
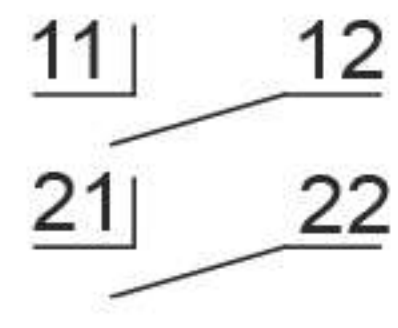
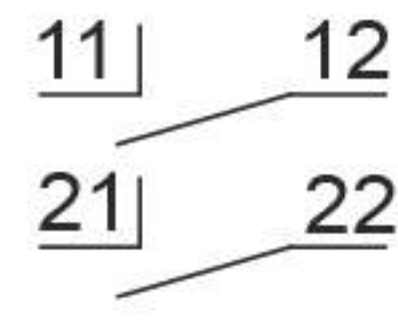
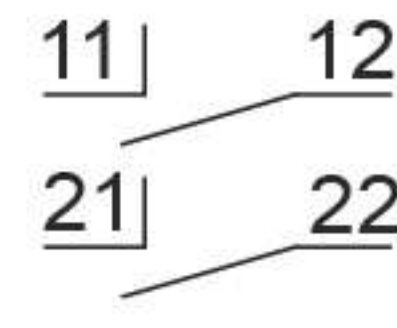
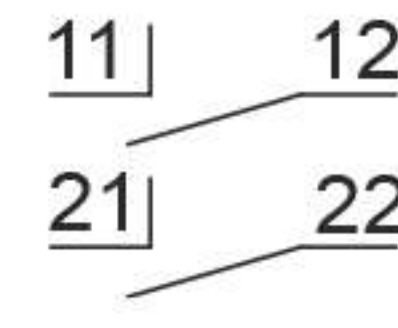
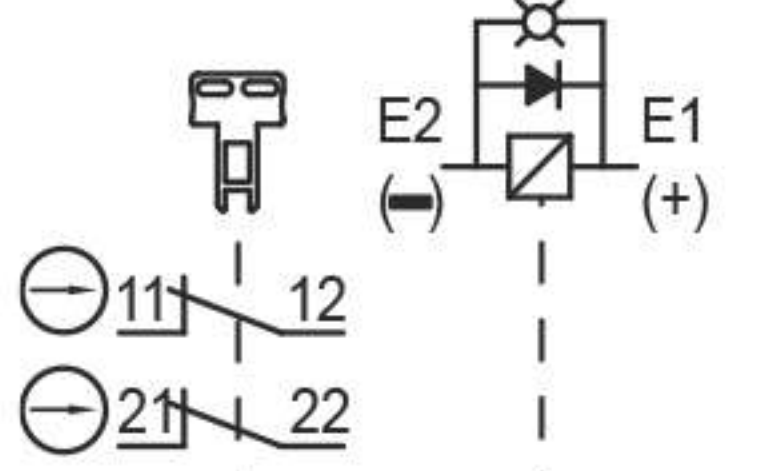
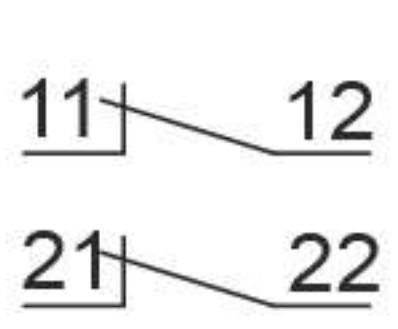
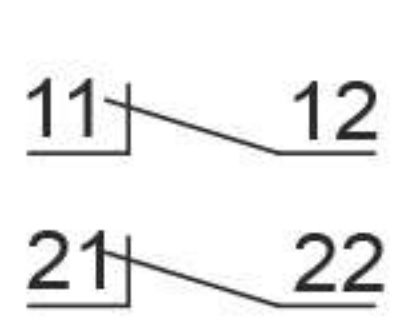
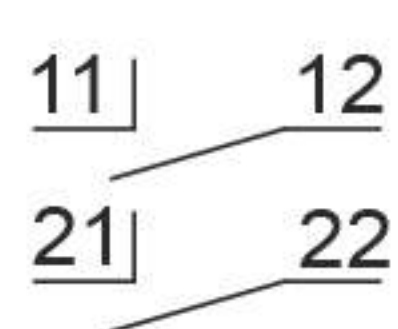
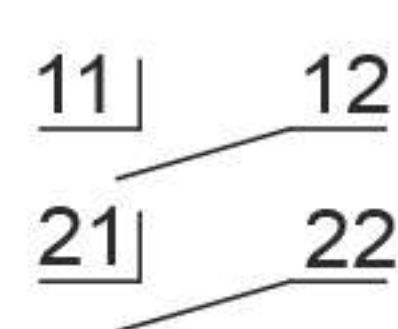
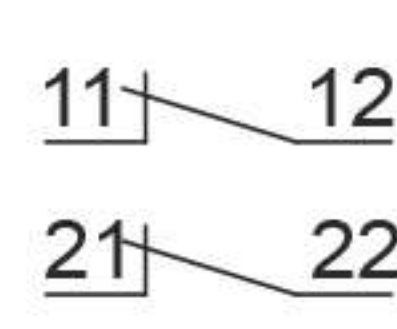
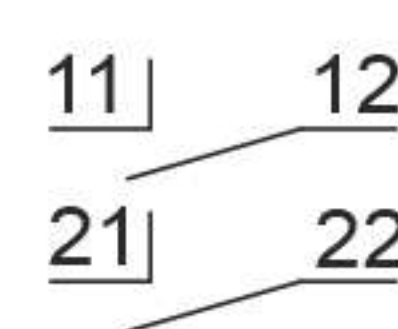
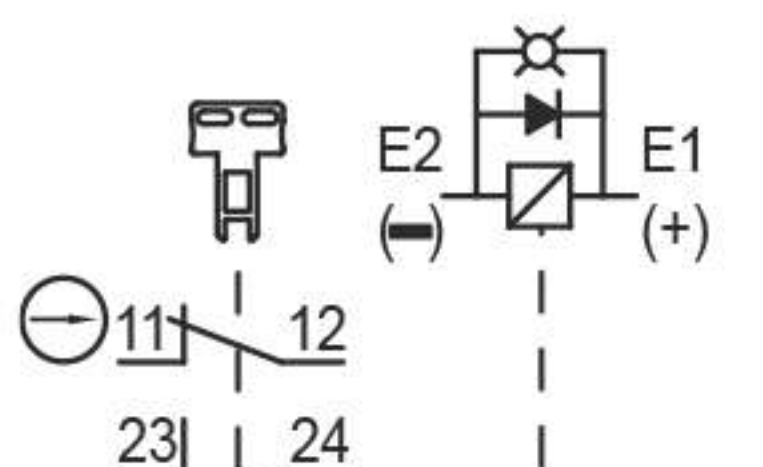
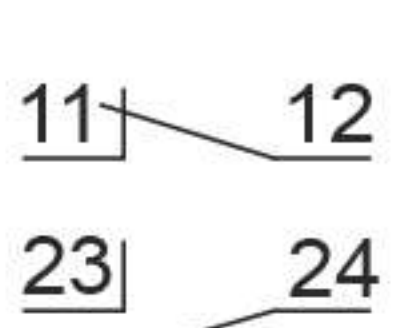
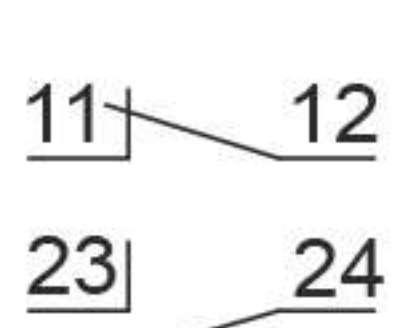
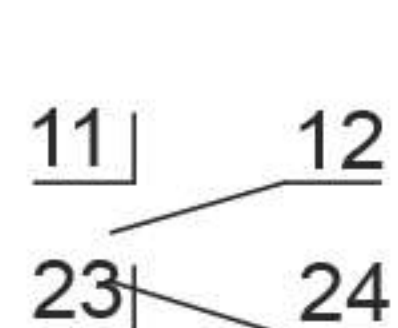
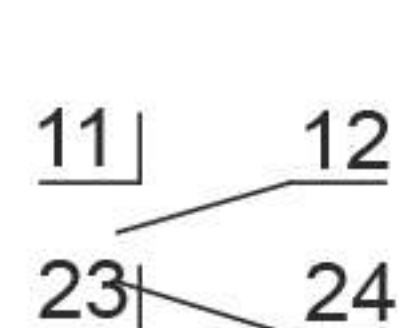
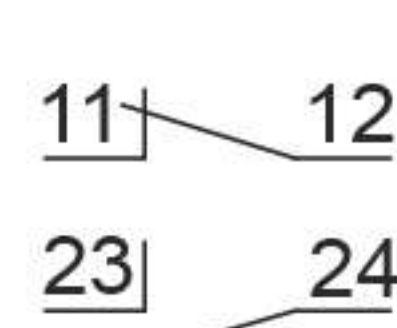
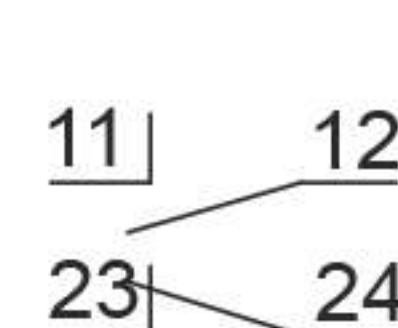
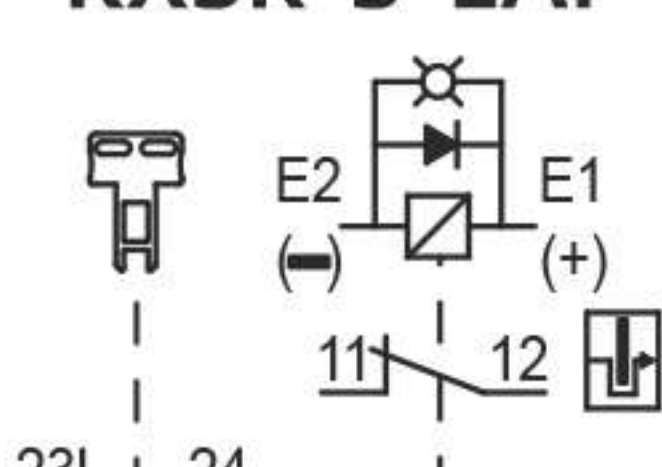
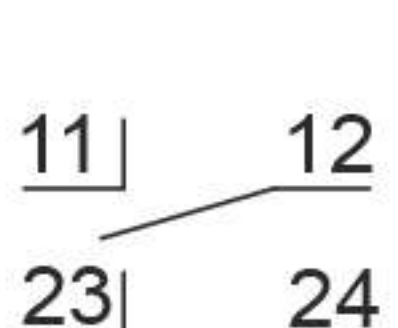
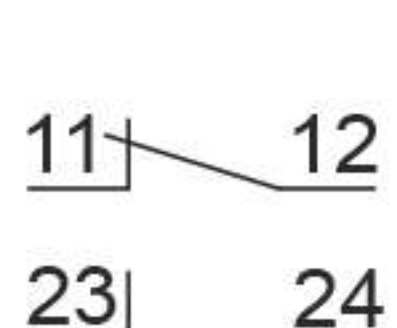
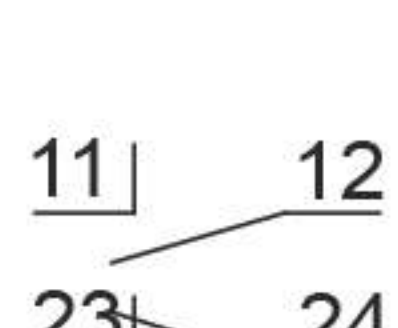
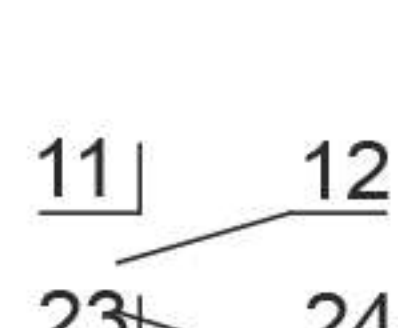
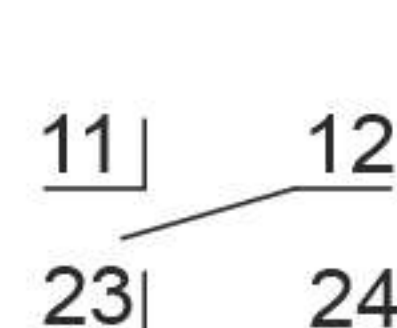
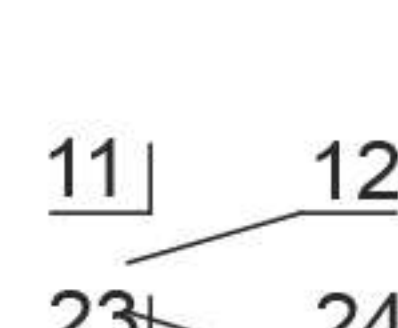
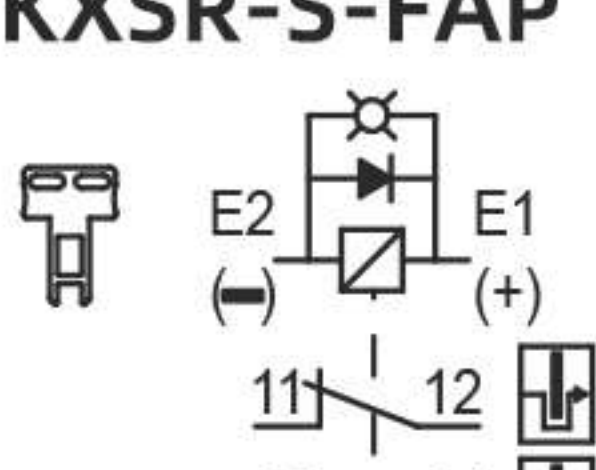
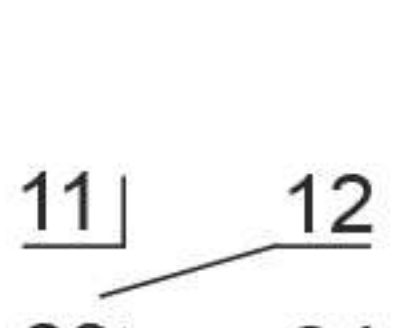
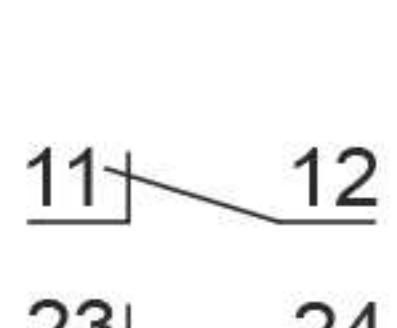
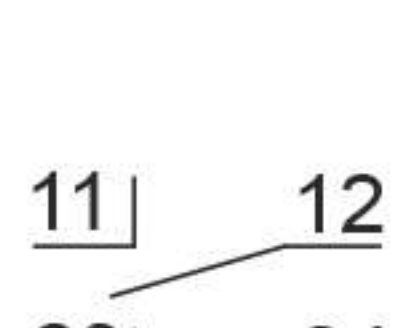
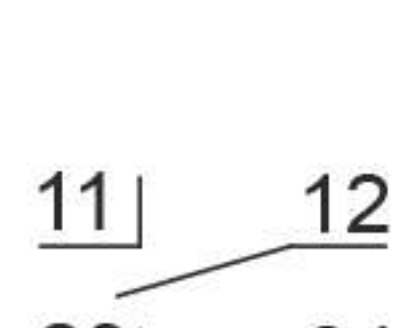
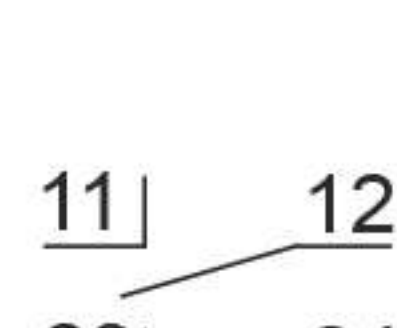
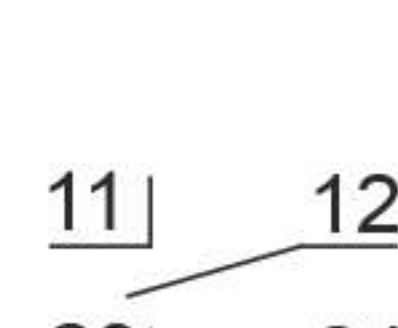
Electromagnetic lock type

Action status of safety door		State 1	State 2	State 3	State 4	When unlocking manually	
		Closed	Closed	Opened	Opened	Closed	Opened
Solenoid power supply		ON	OFF	ON	OFF		
Part number and Contact form	KXSR-S-AGP 						
	KXSR-S-BGP 						
	KXSR-S-CGP 						
	KXSR-S-DGP 						
	KXSR-S-EGP 						
	KXSR-S-FGP 						

Note: After manual unlocking, the safety door is open, please do not apply voltage to the electromagnet for a long time.

● KXSR-S-□□□


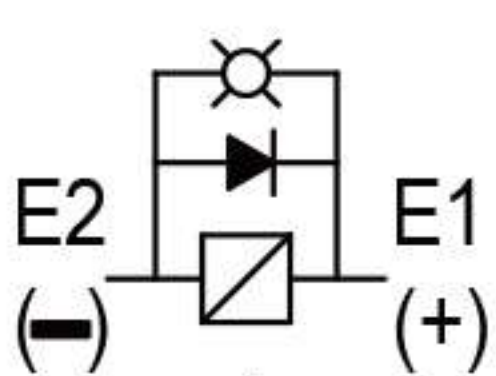
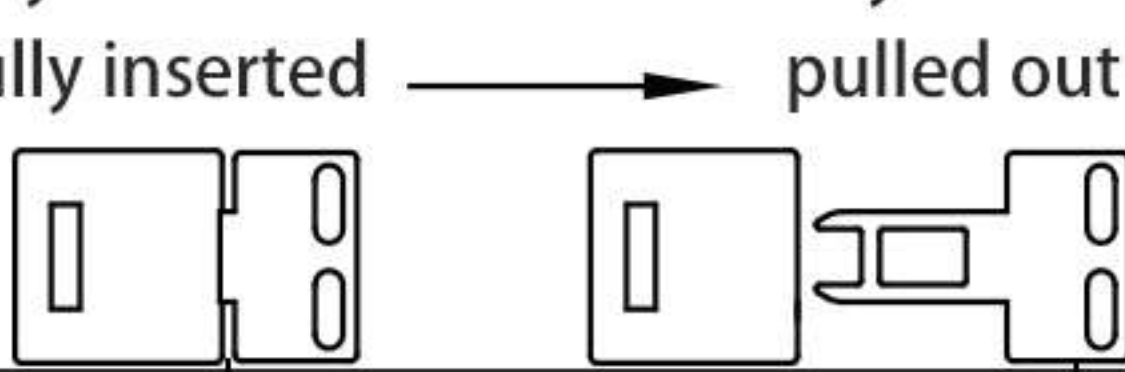


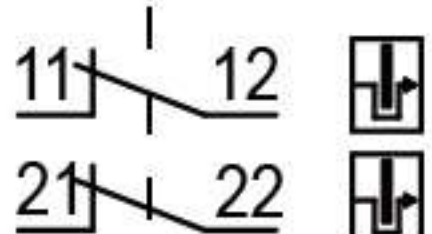
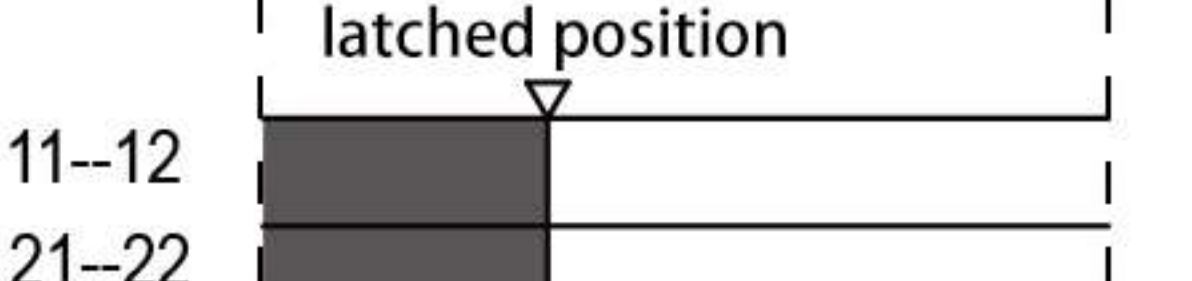
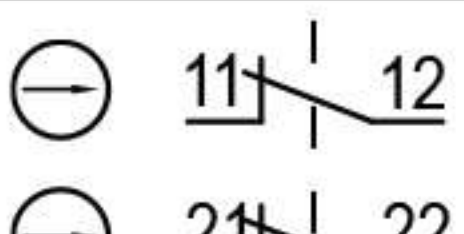
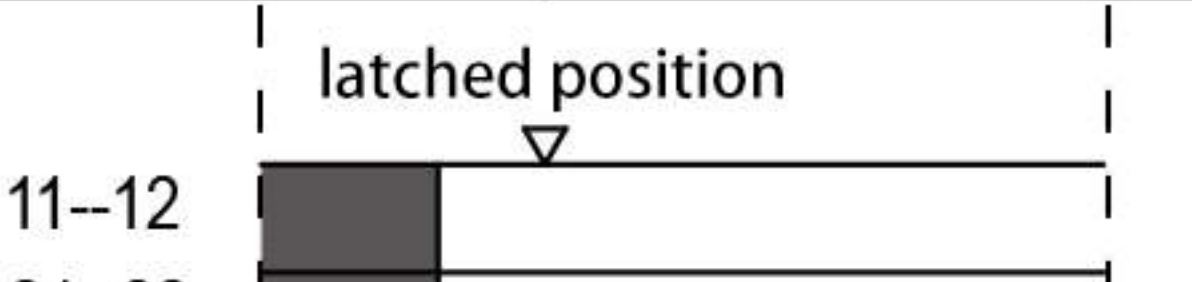
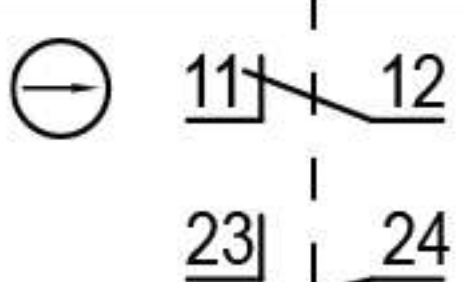
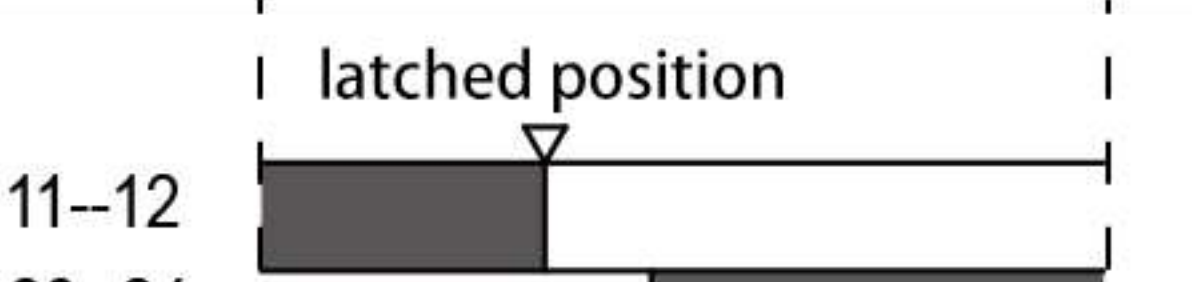
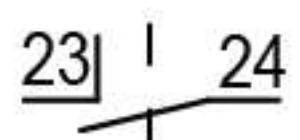
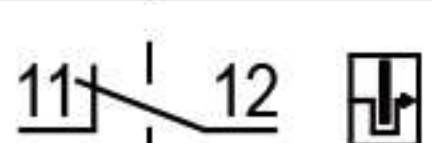
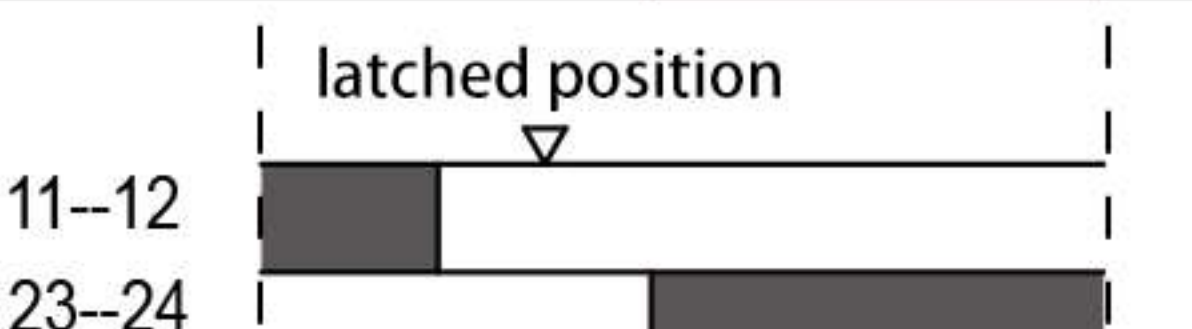
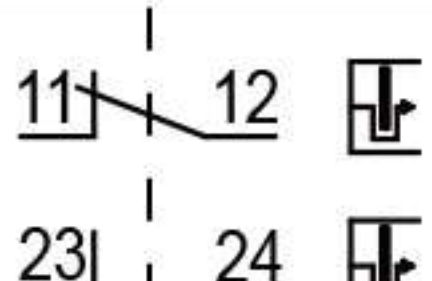
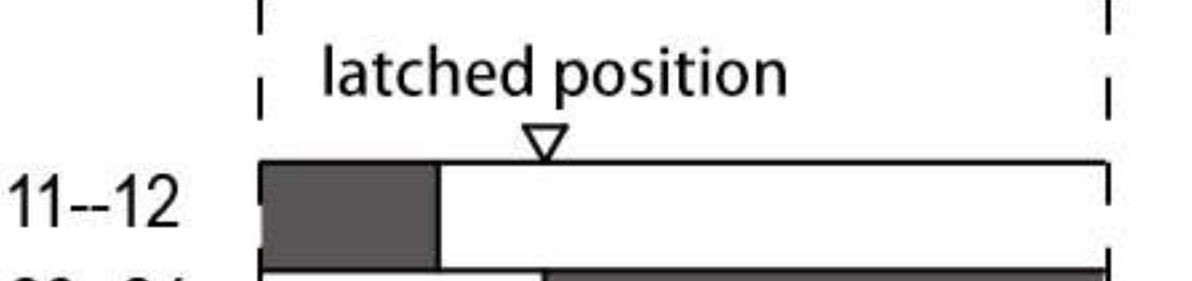
Mechanical lock type

Action status of safety door		State 1	State 2	State 3	State 4	When unlocking manually	
		Closed	Closed	Opened	Opened	Closed	Opened
Solenoid power supply		ON	OFF	ON	OFF		
Part number and Contact form	KXSR-S-AAP 						
	KXSR-S-BAP 						
	KXSR-S-CAP 						
	KXSR-S-DAP 						
	KXSR-S-EAP 						
	KXSR-S-FAP 						

Note: In case of emergencies such as the operation state of the door before wiring and power-on, or power failure, the lock of the operation key can be manually released.


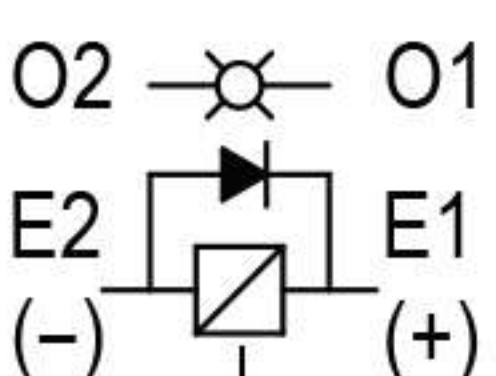
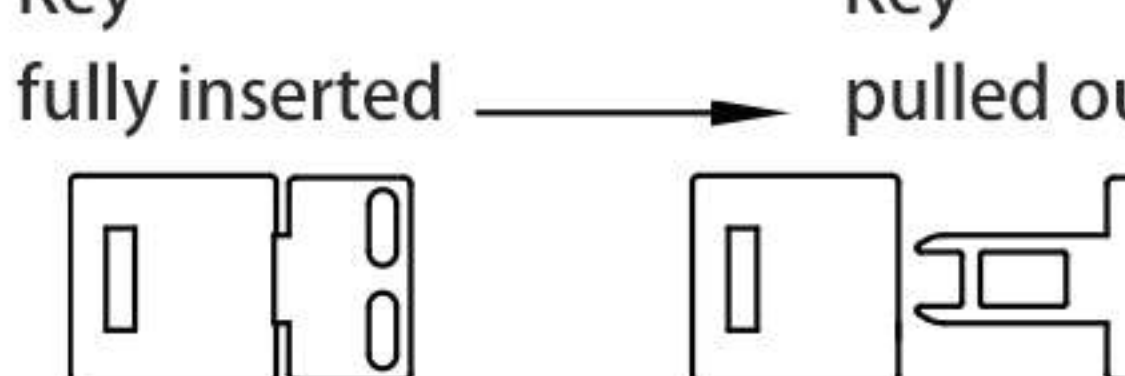
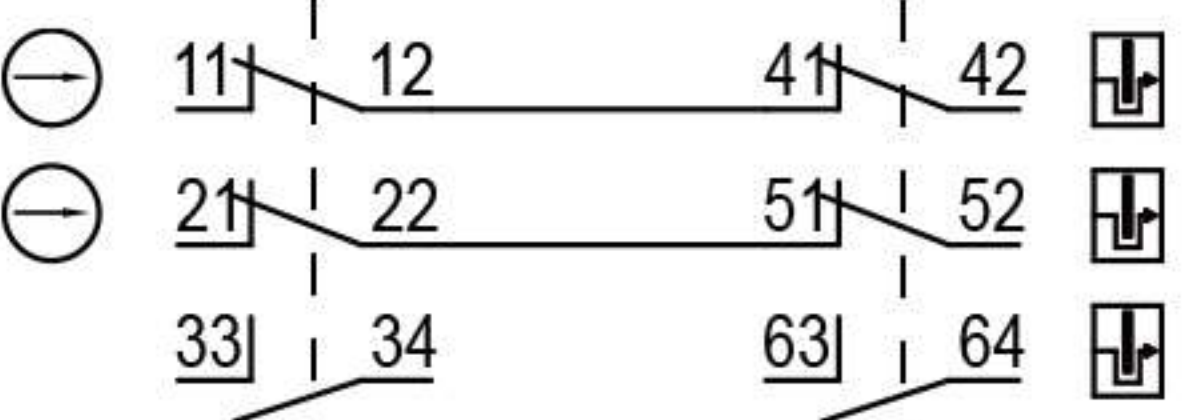
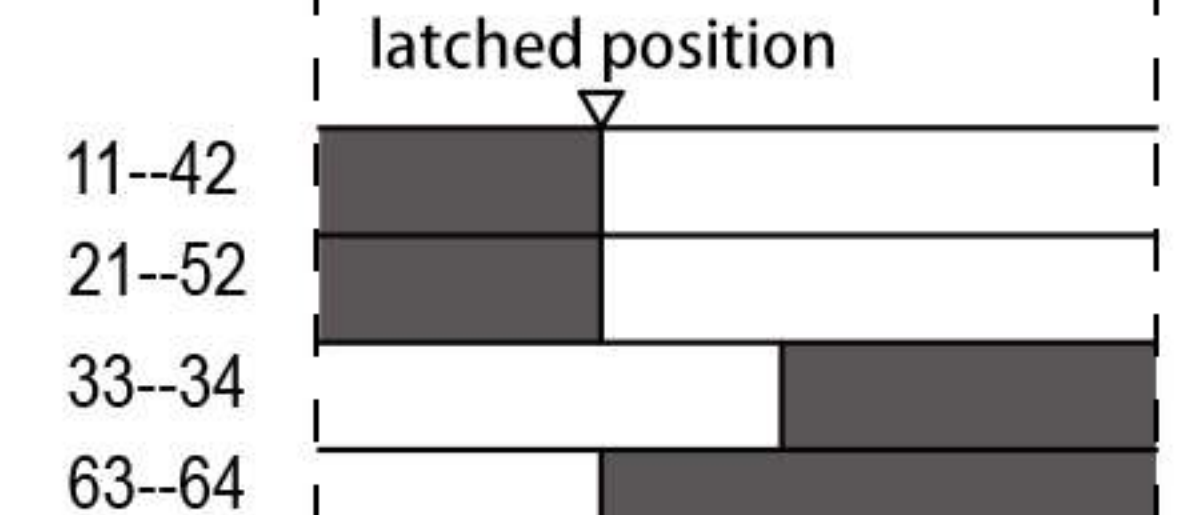
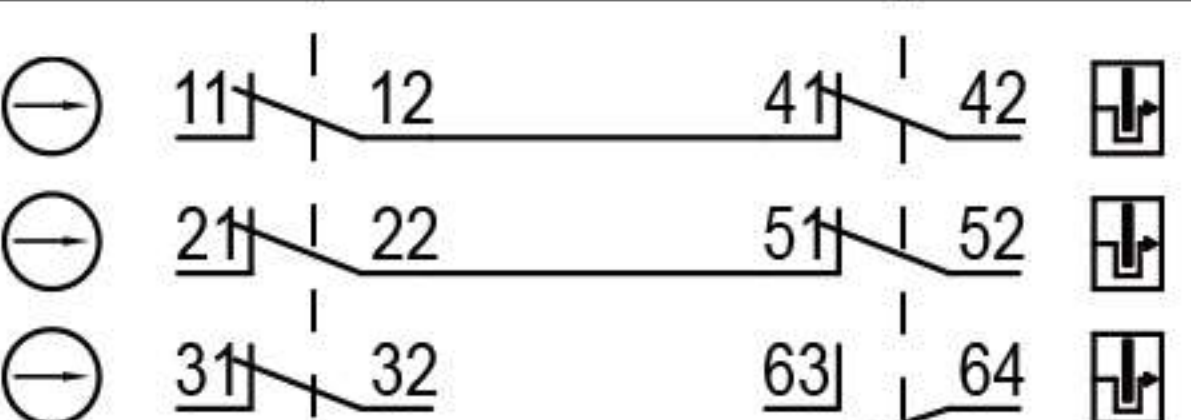
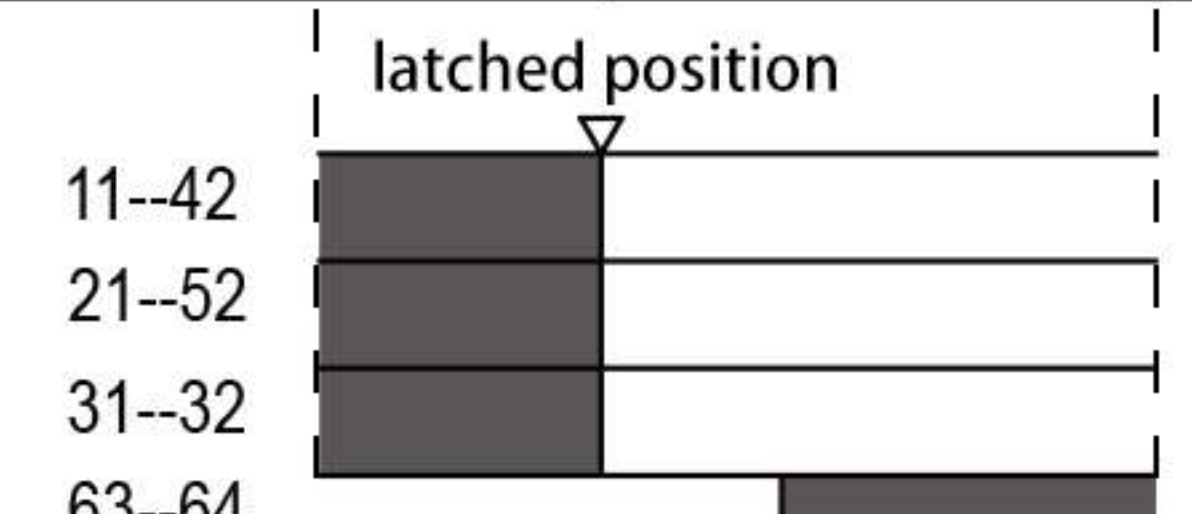
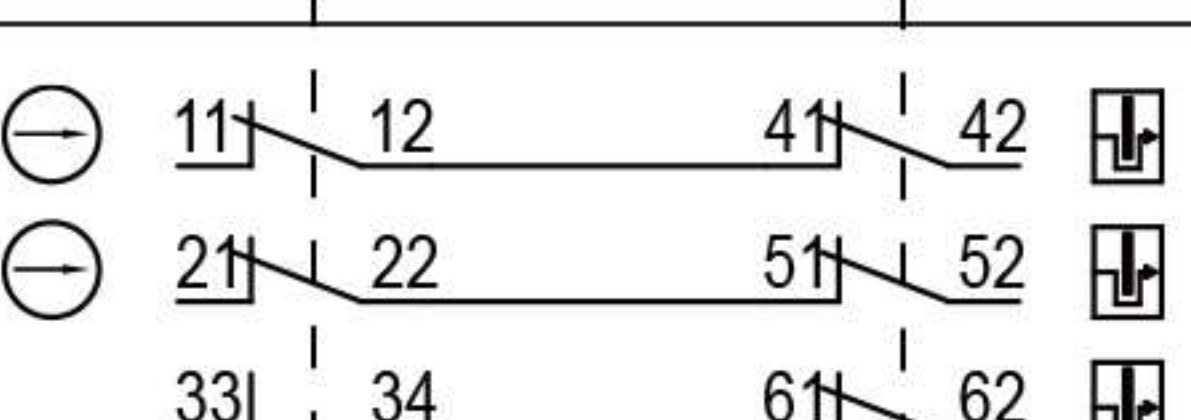
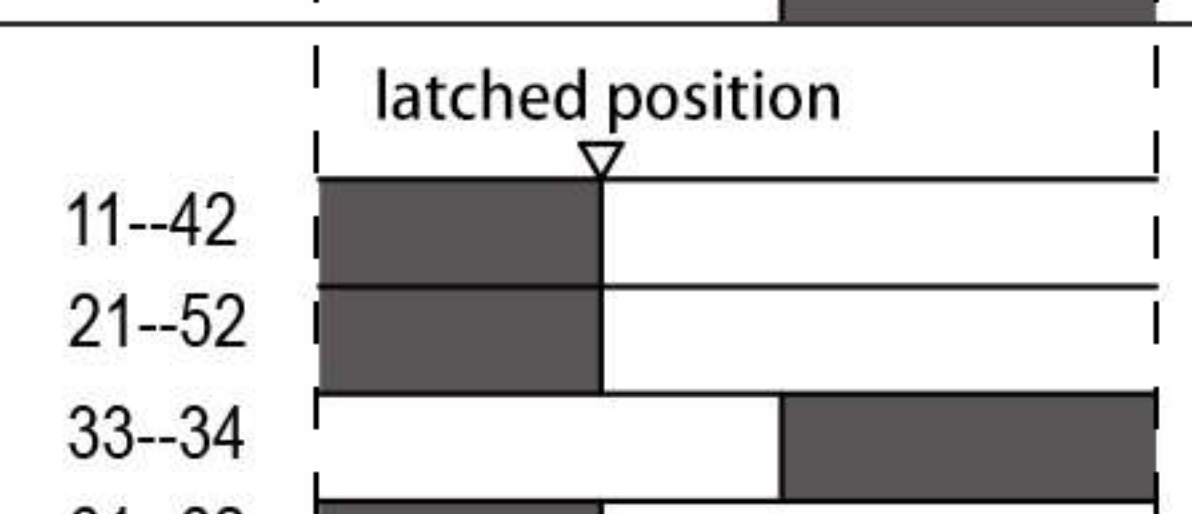
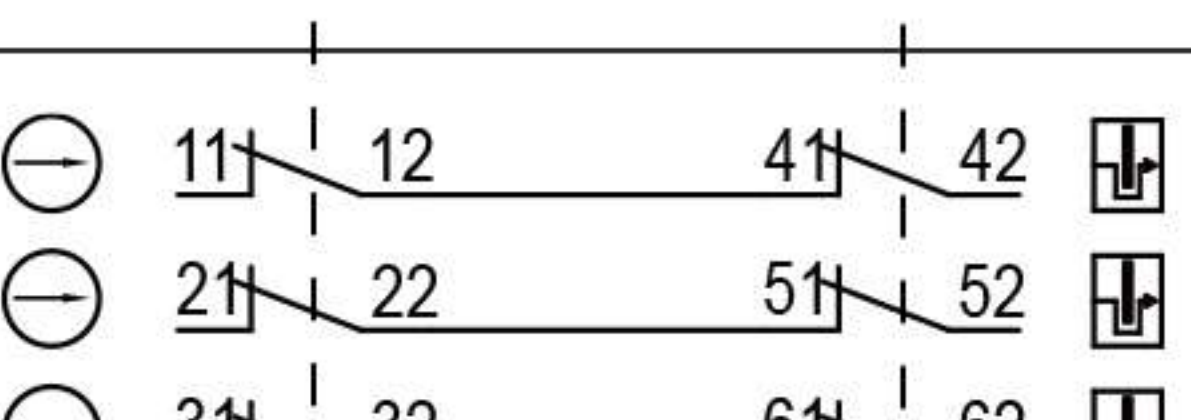
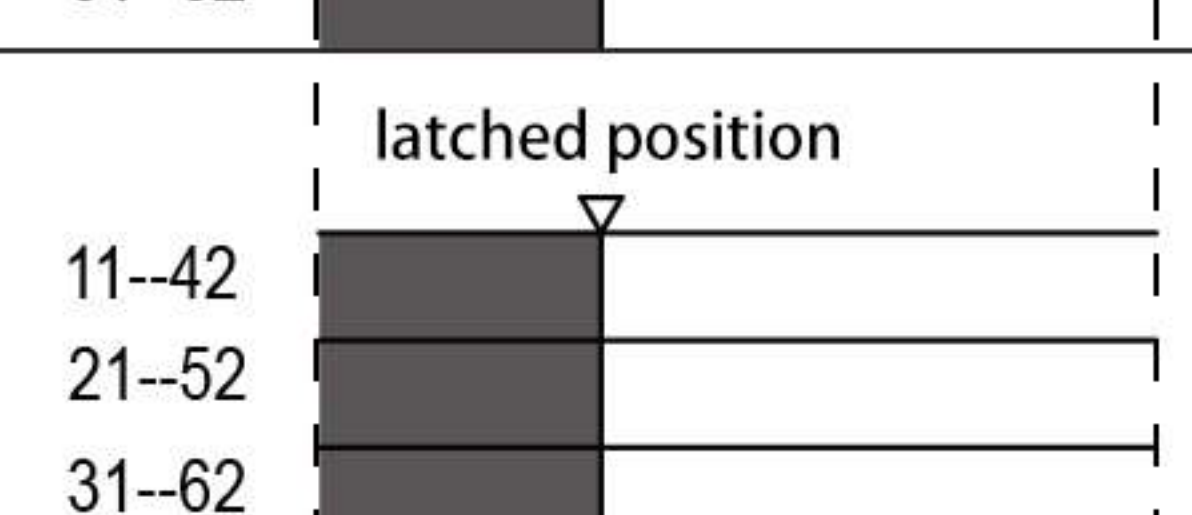
● KXSR-S-□□□

The following wiring diagram shows the operation key inserted and in the lock key state.

Part number	Contact type (Door monitoring + Lock monitoring)	Wiring diagram		Contact action ■:Contact ON □:Contact OFF
		Door monitoring	Lock monitoring	
				
KXSR-S-AGP KXSR-S-AAP	1NC+1NC			
KXSR-S-BGP KXSR-S-BAP	None+2NC			
KXSR-S-CGP KXSR-S-CAP	2NC+None			
KXSR-S-DGP KXSR-S-DAP	1NC/1NO+None			
KXSR-S-EGP KXSR-S-EAP	1NO+1NC			
KXSR-S-FGP KXSR-S-FAP	None+1NC/1NO			

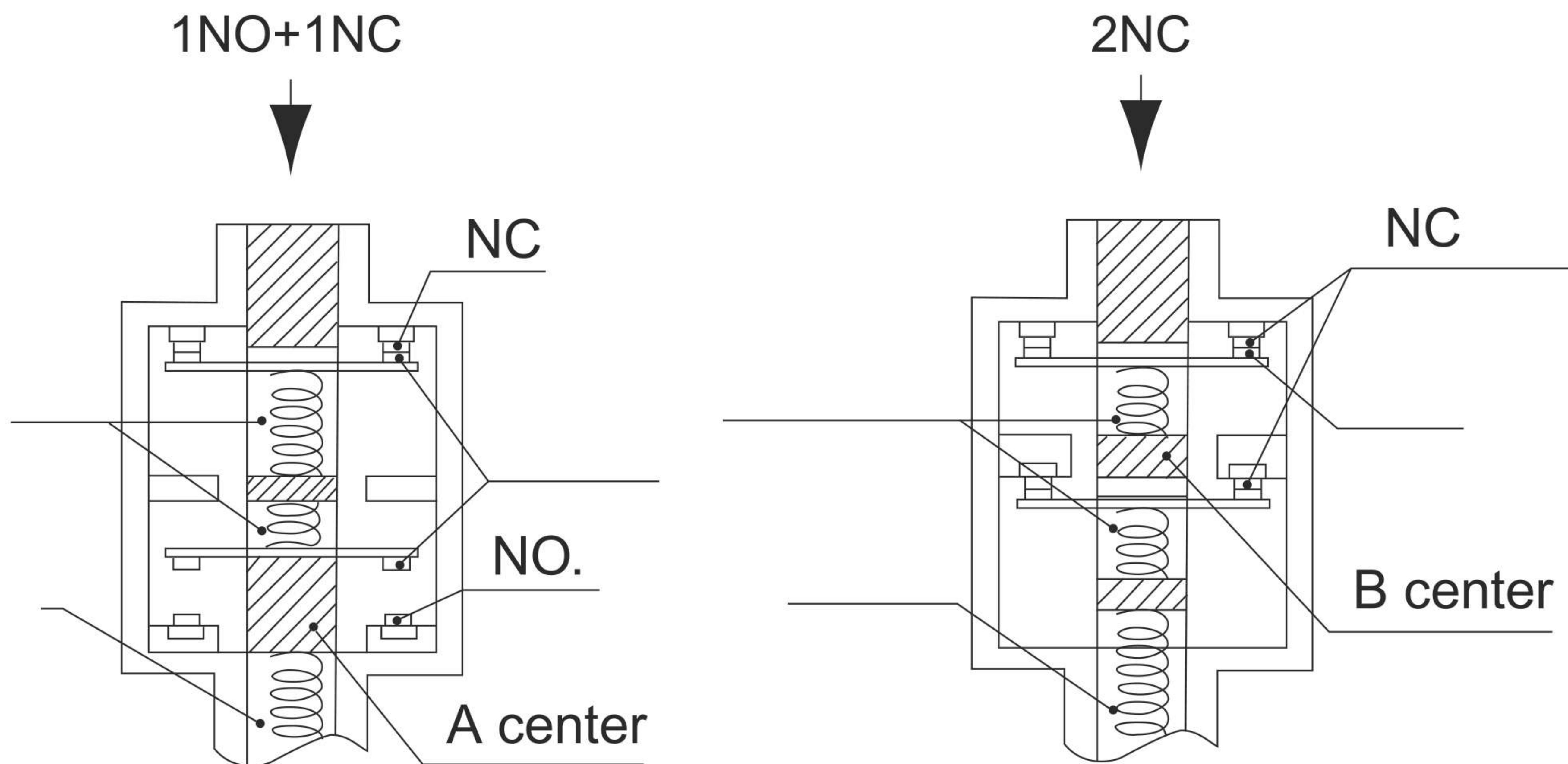
● KXSR-B-□□□□□

The following wiring diagram shows the operation key inserted and in the lock key state.

Part number	Contact type (Door monitoring + Lock monitoring)	Wiring diagram		Contact action ■:Contact ON □:Contact OFF
		Door monitoring	Lock monitoring	
				
KXSR-B-A□P□	2NC/1NO+2NC/1NO			
KXSR-B-F□P□	3NC+2NC/1NO			
KXSR-B-G□P□	2NC/1NO+3NC			
KXSR-B-H□P□	3NC+3NC			

● KXS-□□

Forced disconnect mechanism



The function of the forced disengagement mechanism of the NC contact is that when the contact is fused, the center of the key mechanism is pressed down, and the contact can be forcibly pushed open to cut off the circuit. (EN60947-5-1 mandatory detachment certification).

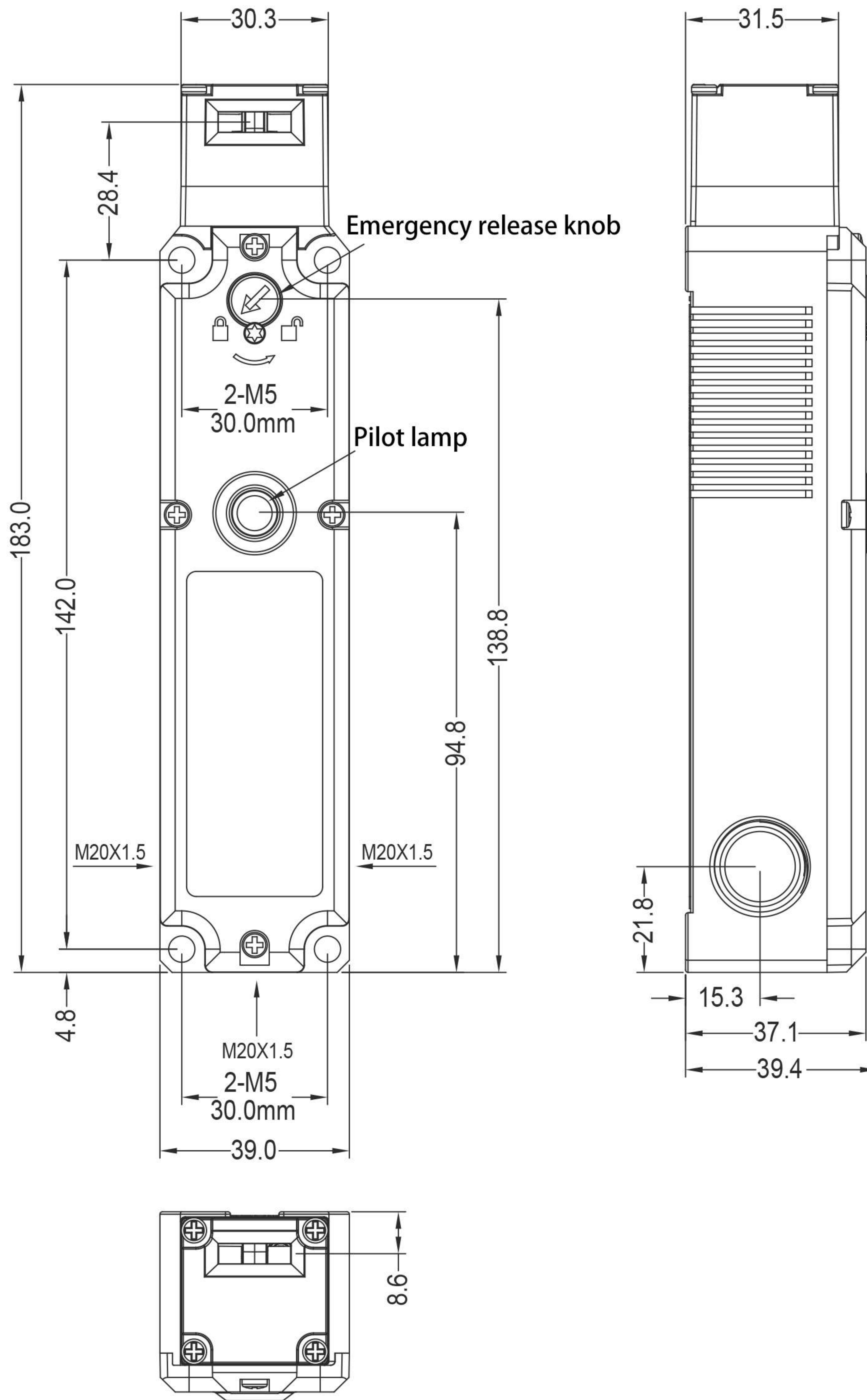
● KXS-□□

Action characteristics

Operating insertion force Max.	14.7N (1,500gf)
Operating twitch force Max.	29.42N (3000gf)
Action distance	6±3mm
Total travel	(28mm)
Forced disengagement force Min.	58.84N (6,000gf)
Forced release distance Min.	10mm

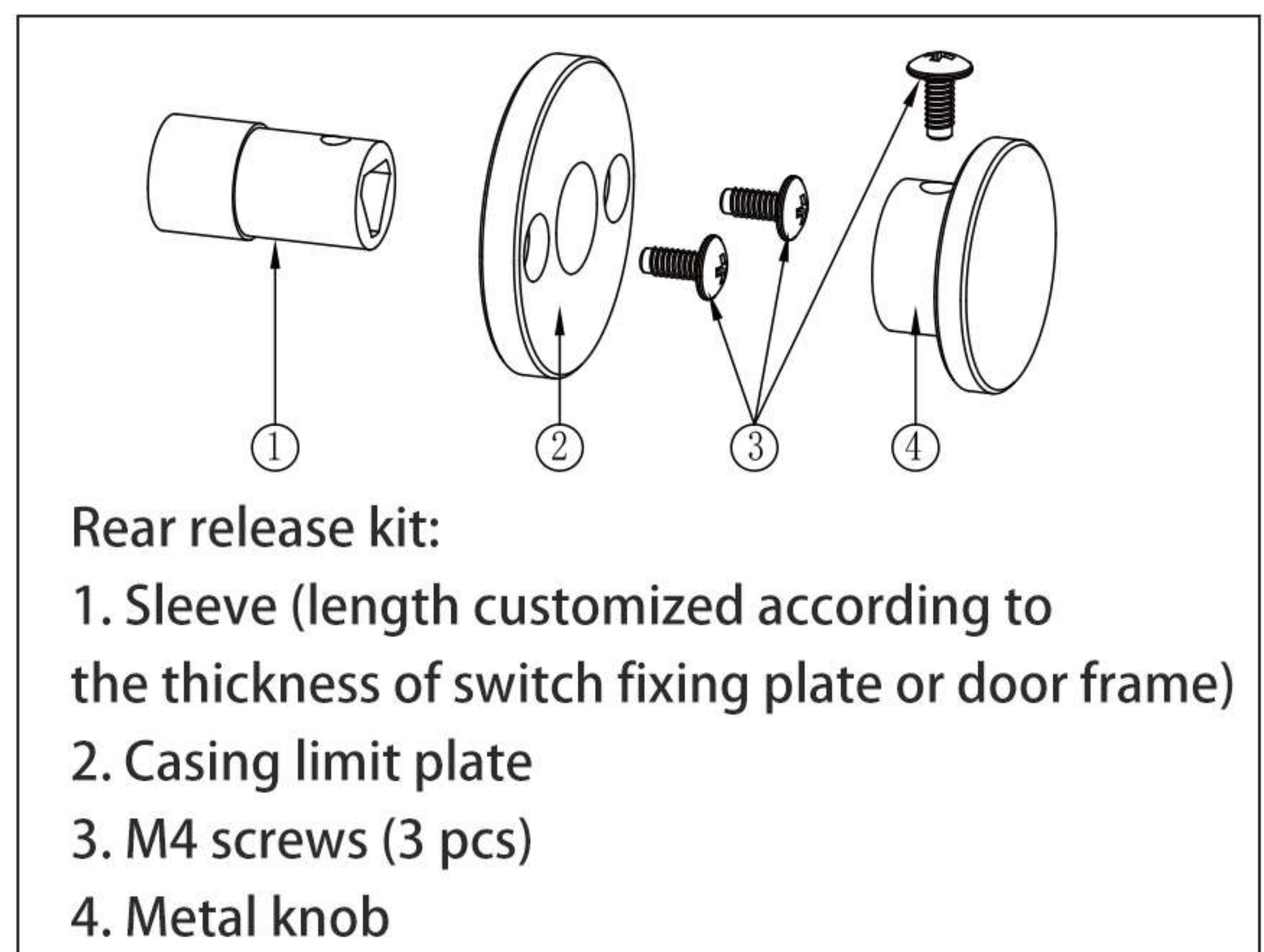
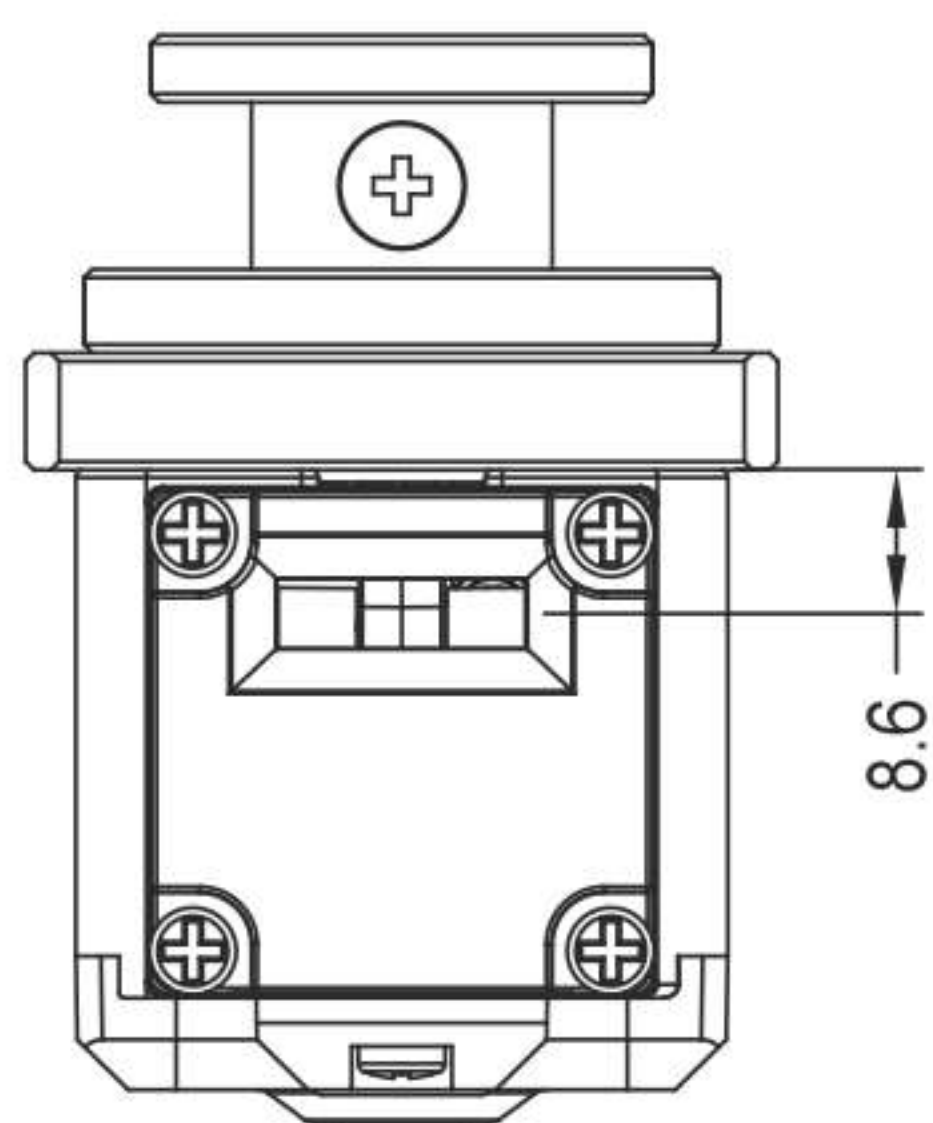
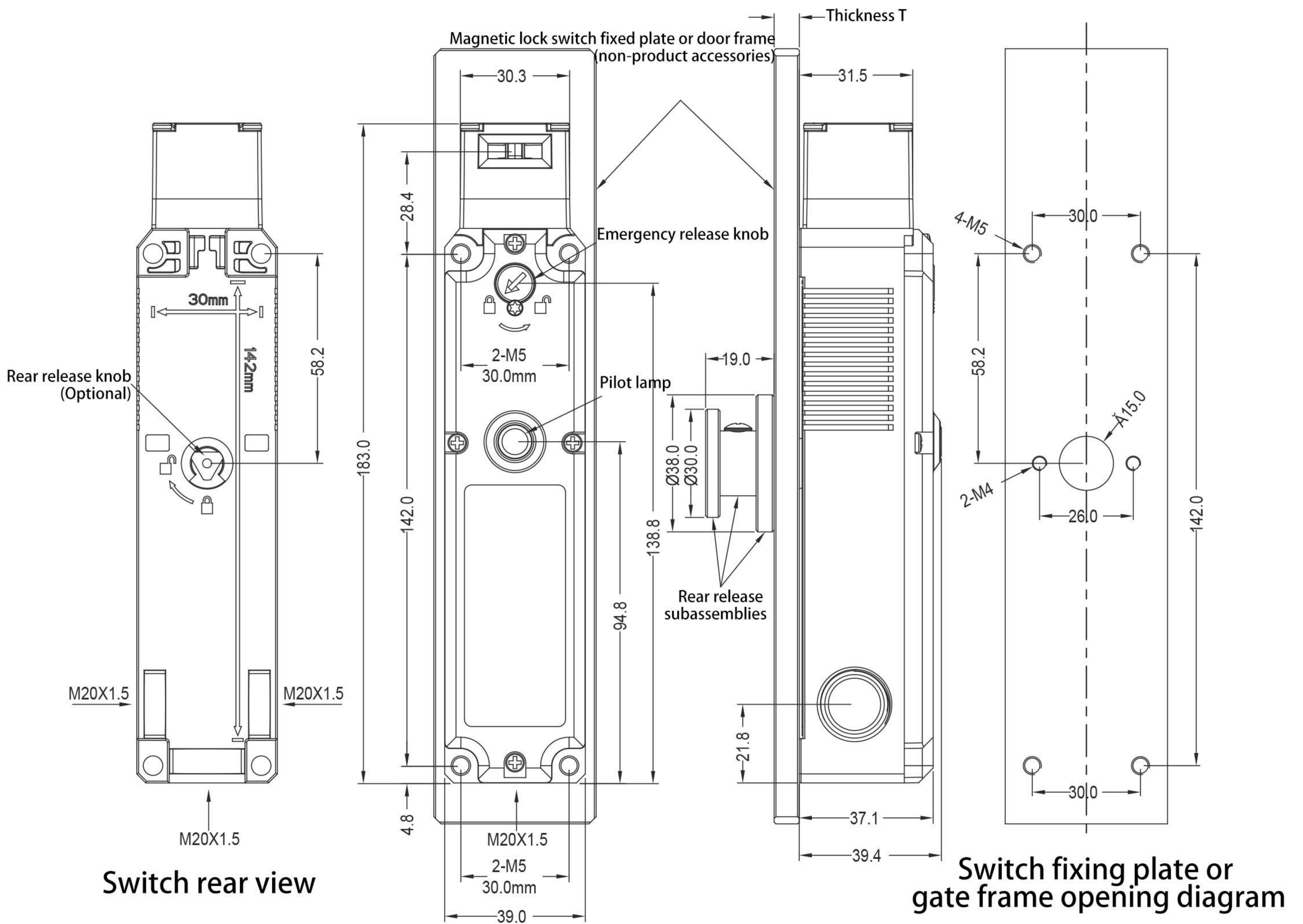
● KXSR-K-□□□-□ (Universal type)

Unit: mm



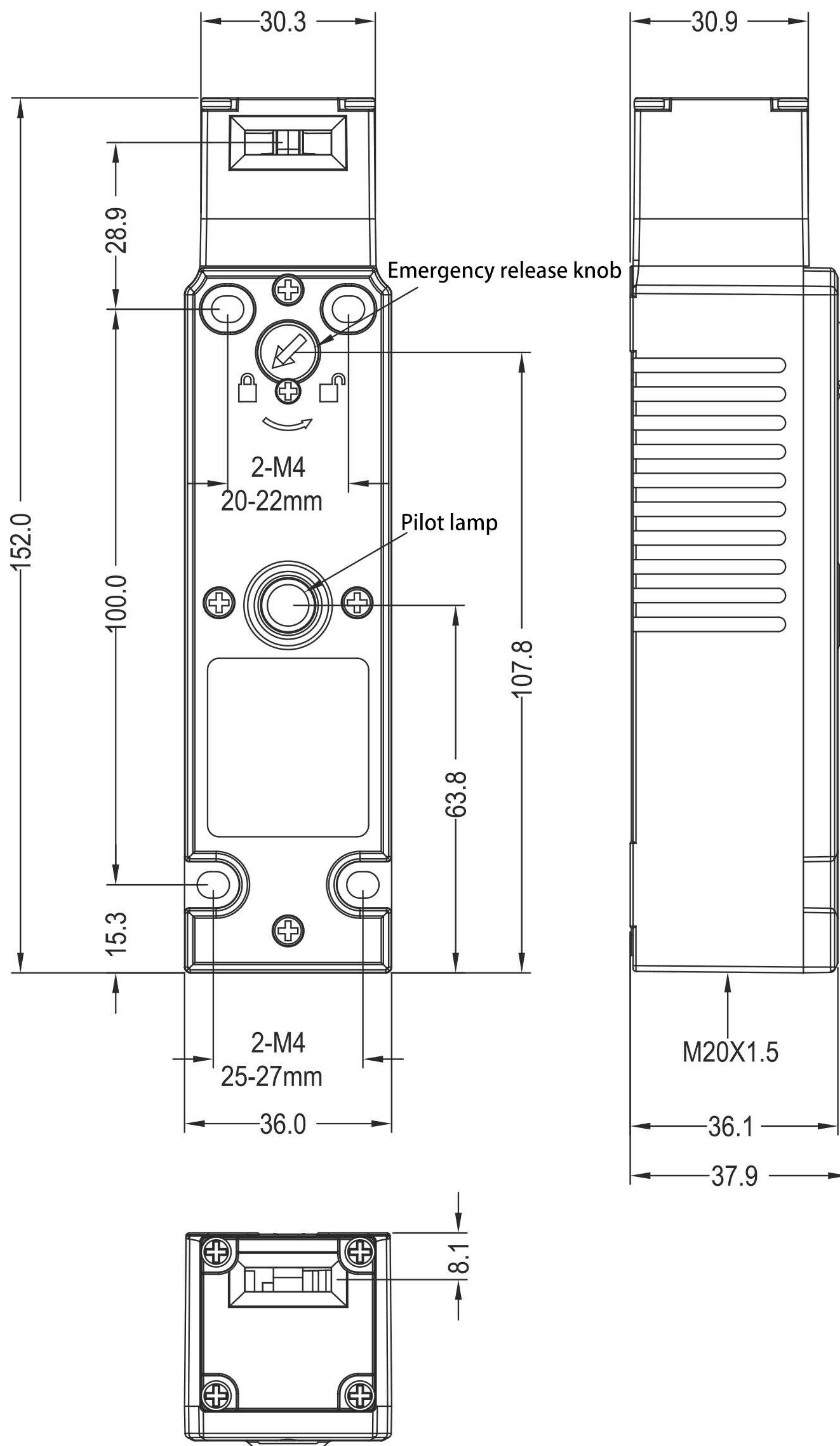
● KXSR-K-□□□-N (Emergency release of the rear side)

Unit: mm



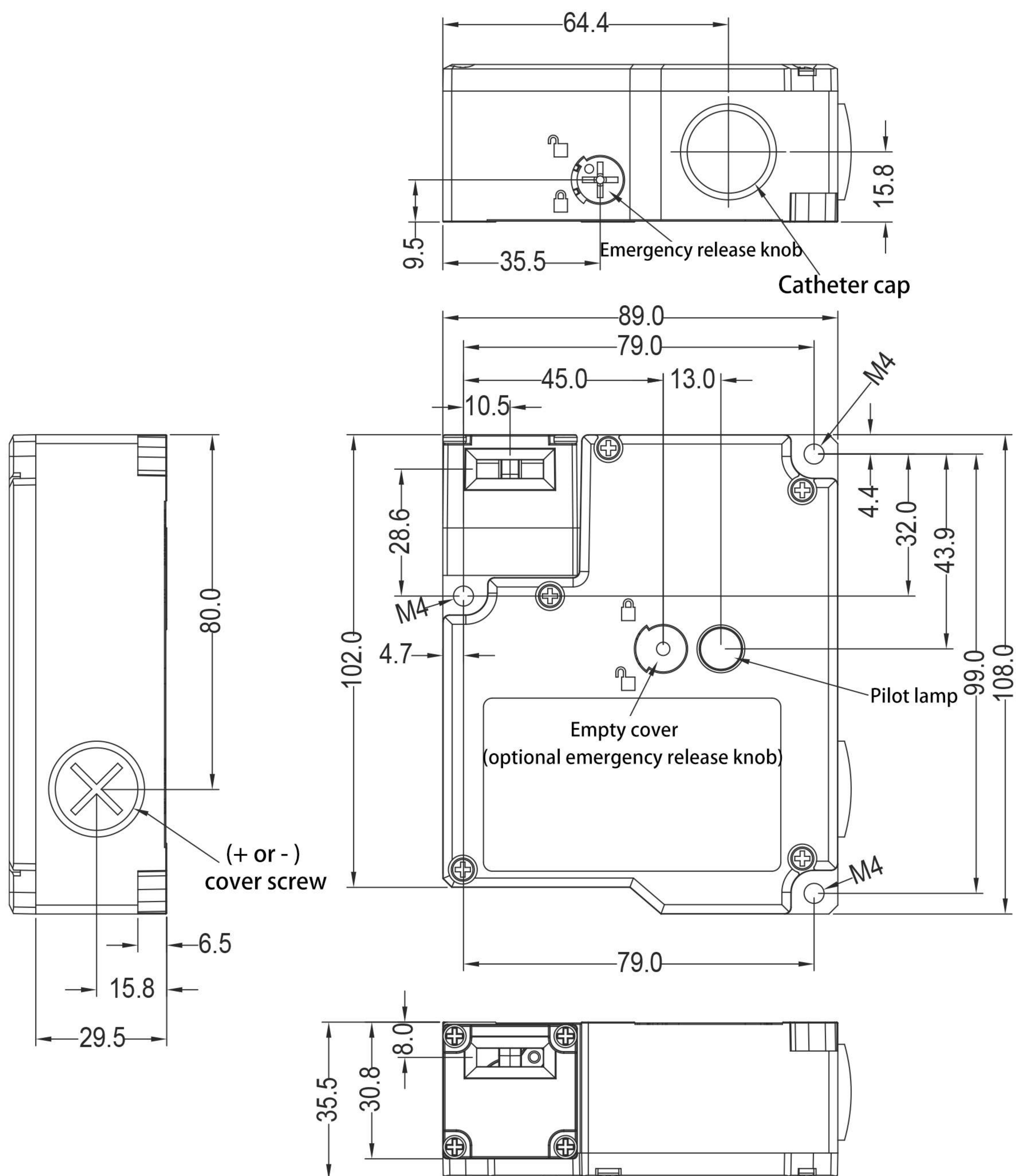
● KXSR-S-□□□

Unit: mm



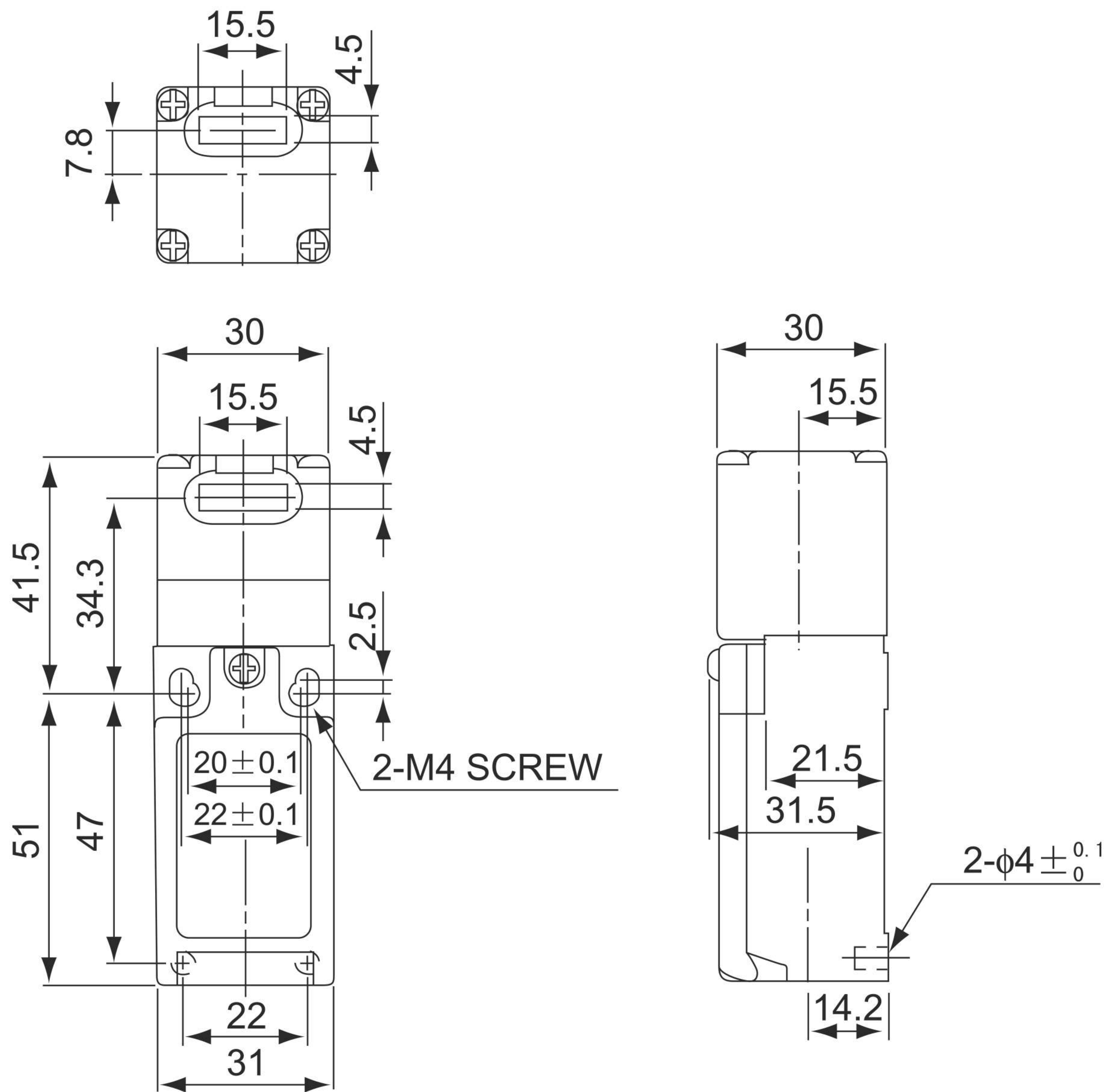
● KXSR-B-□□□□□

Unit: mm



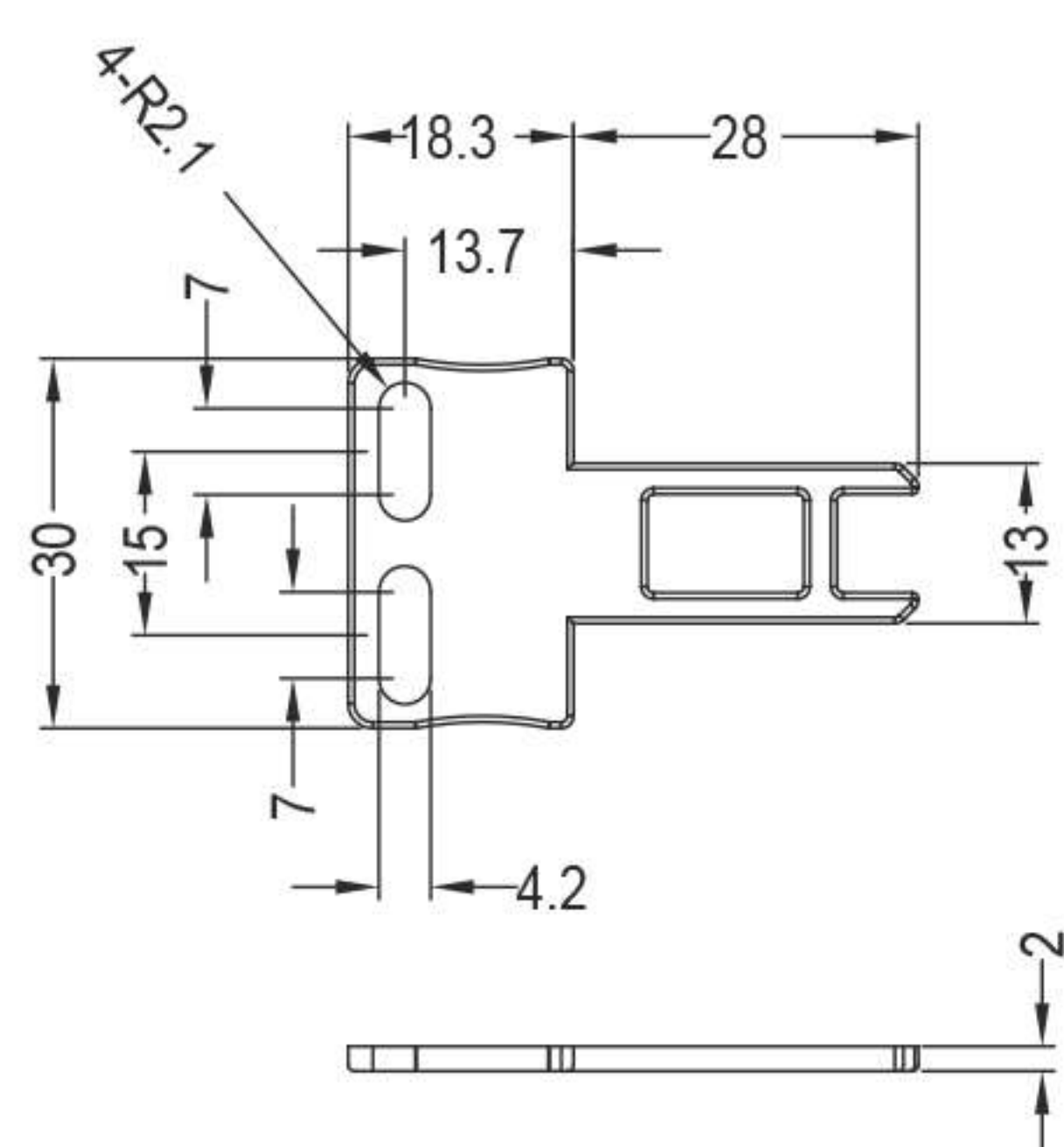
● KXS-□□

Unit: mm

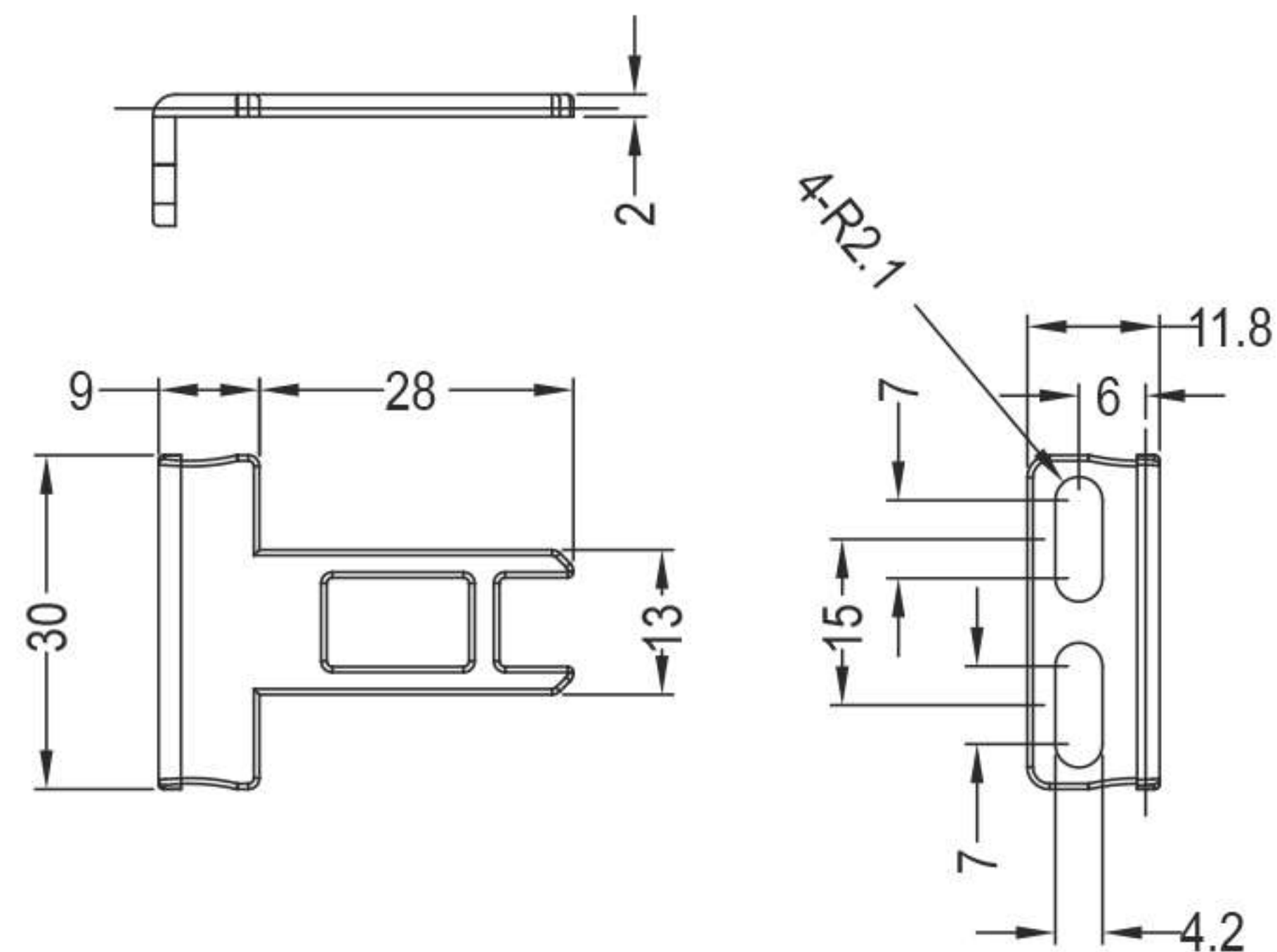


● KXS-K□ Unit: mm

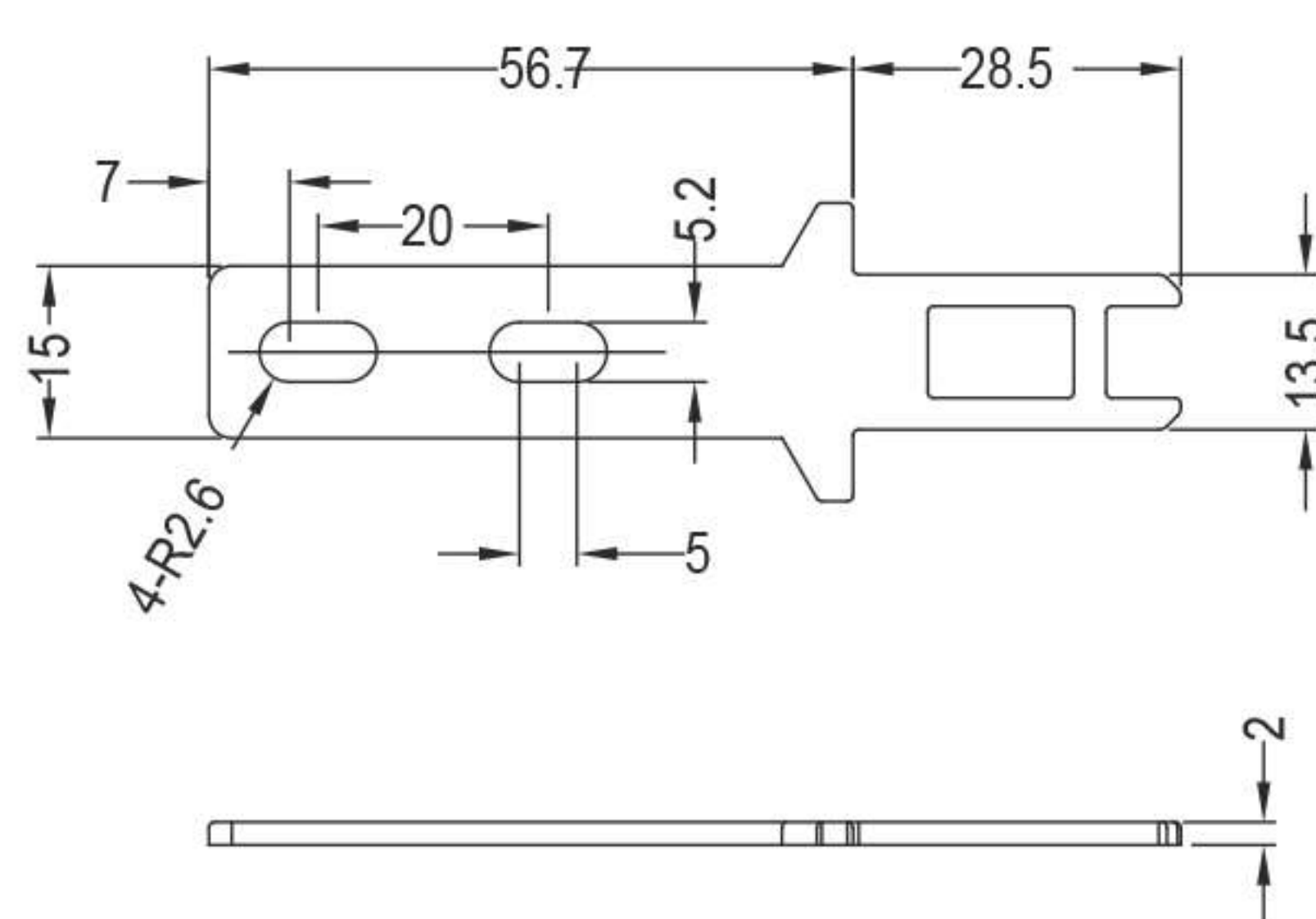
KXS-K1
T type operating key



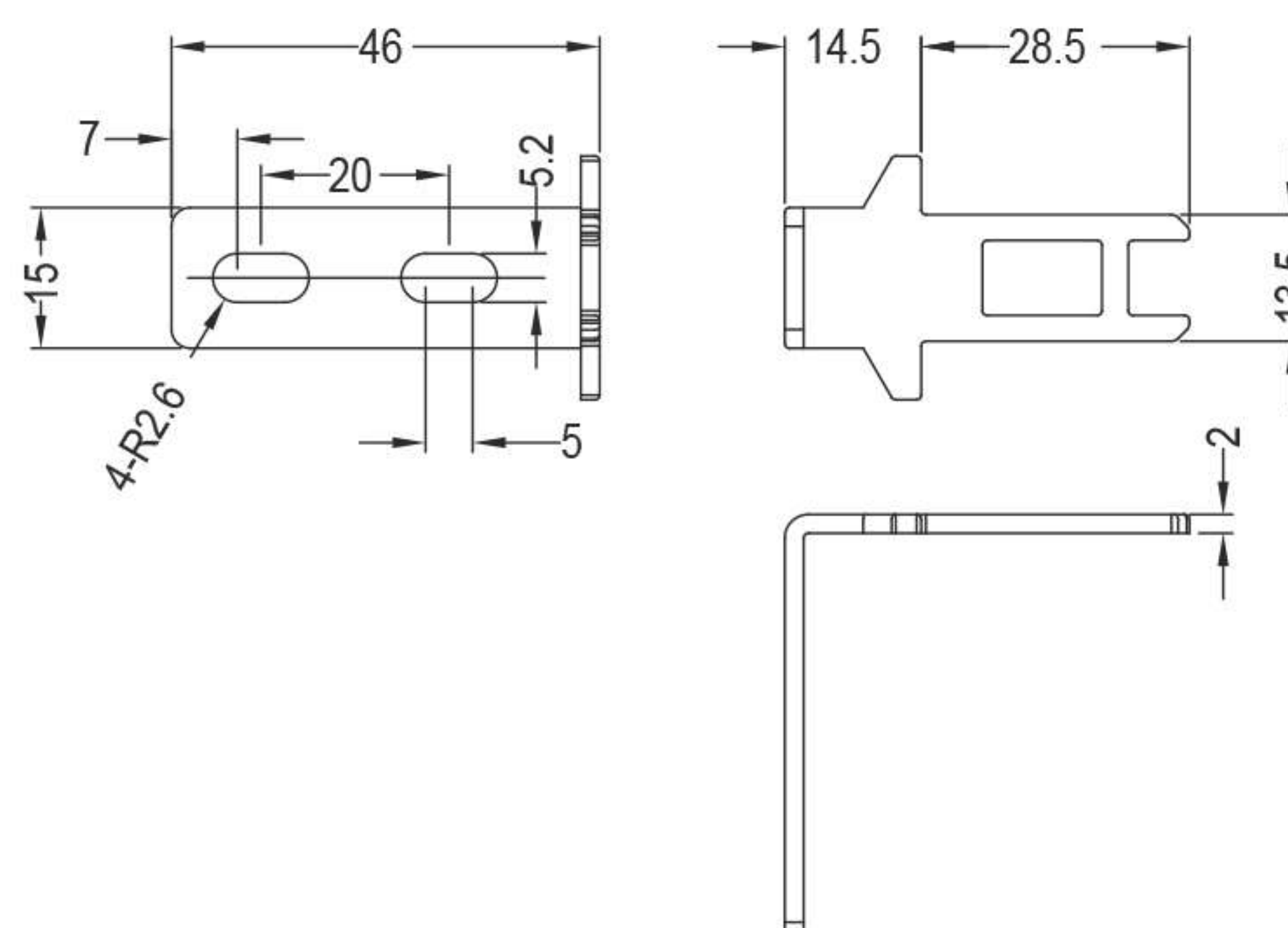
KXS-K2
L type operating key



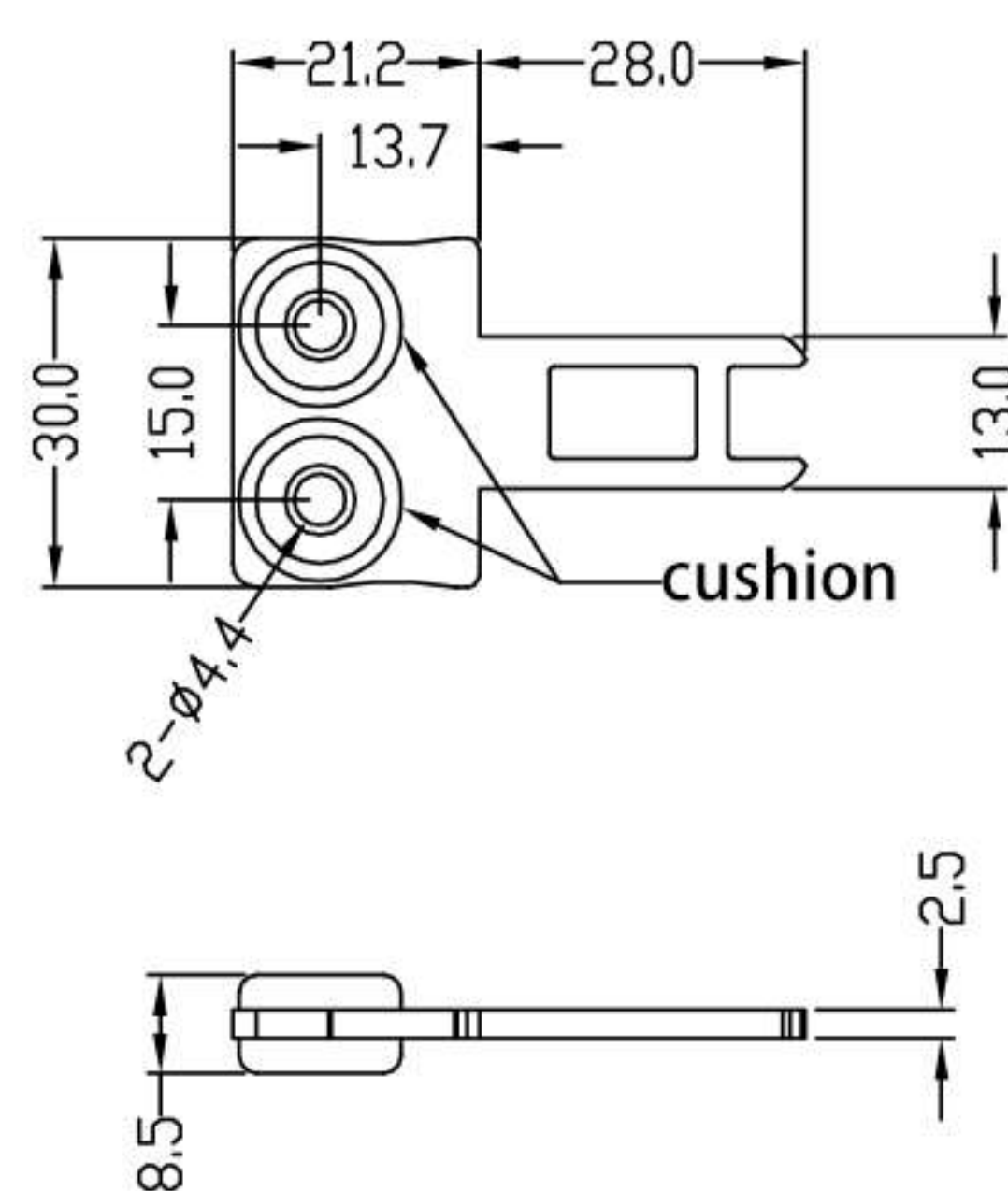
KXS-K3
Long T type operating key



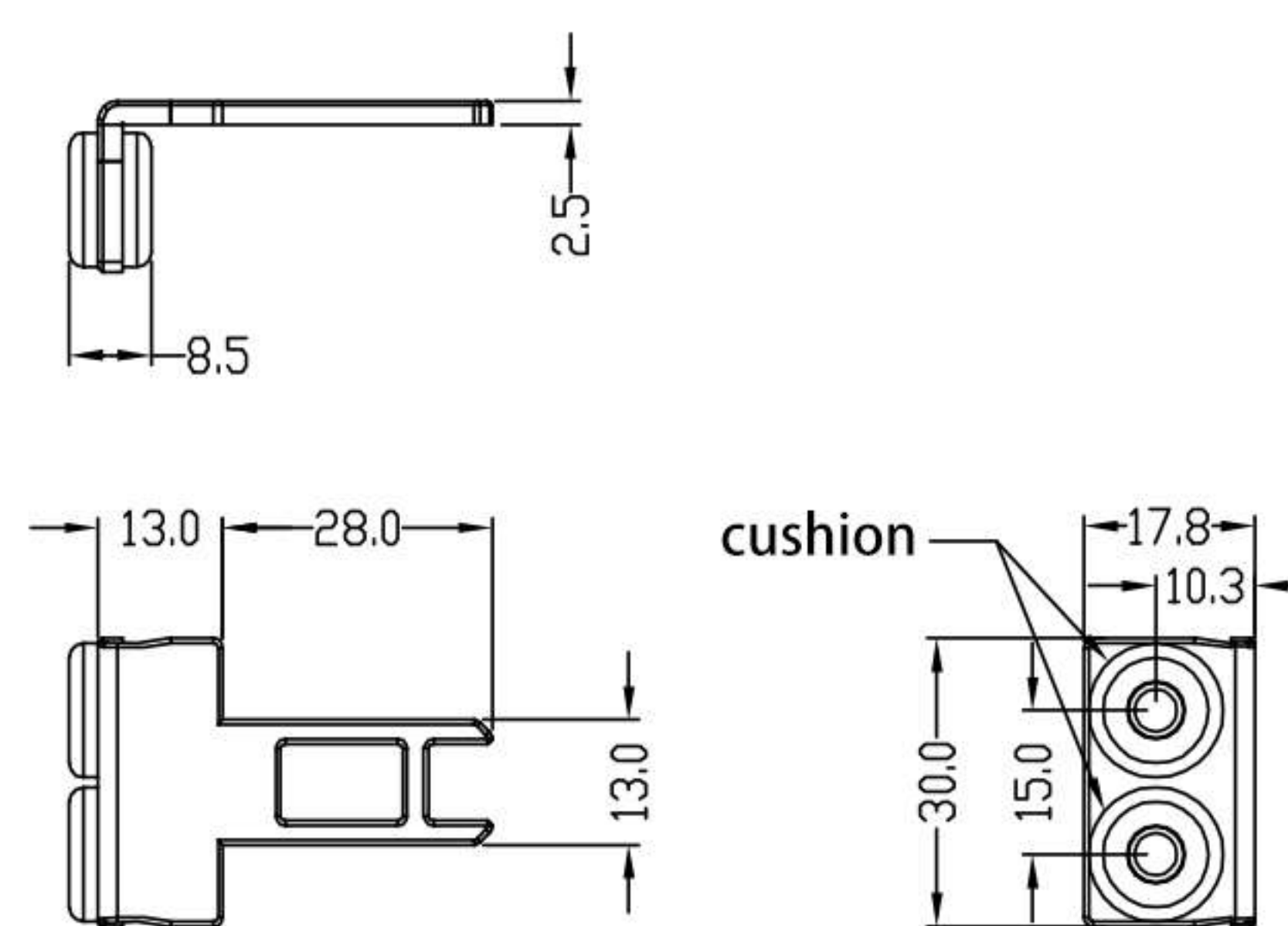
KXS-K4
Long L type operating key



KXS-K1S
T type operating key with cushion

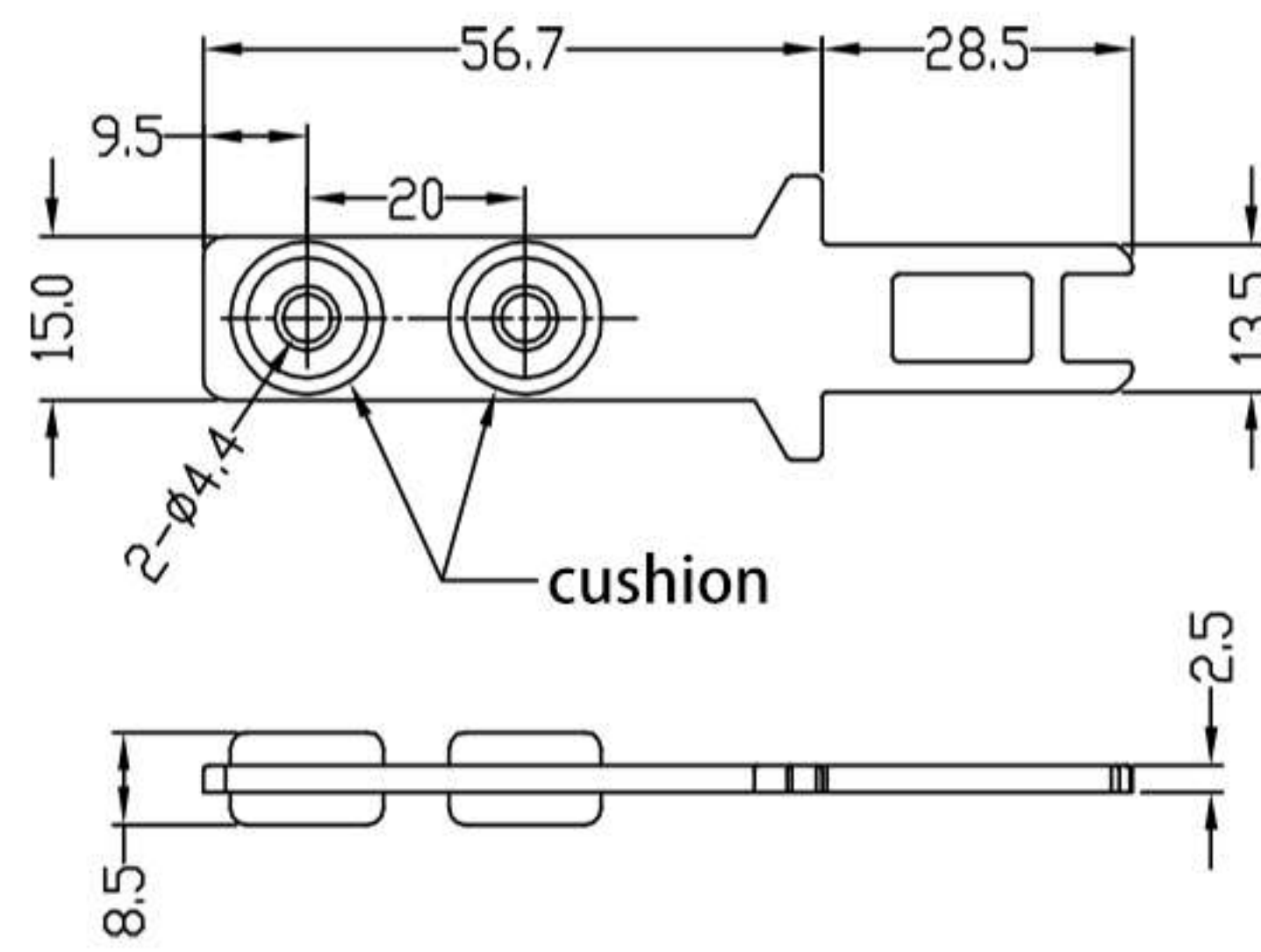


KXS-K2S
L type operating key with cushion

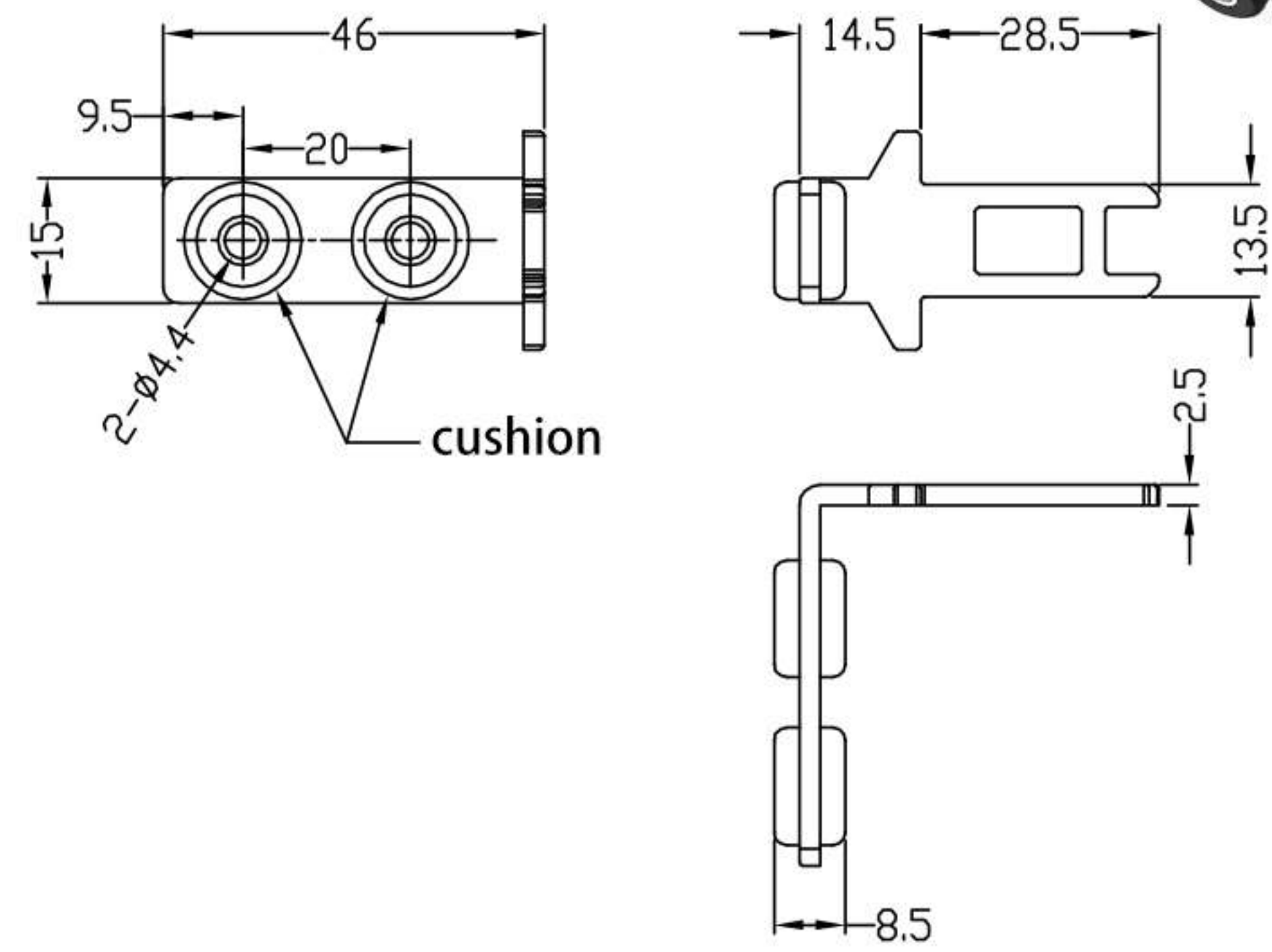


● KXS-K□ Unit: mm

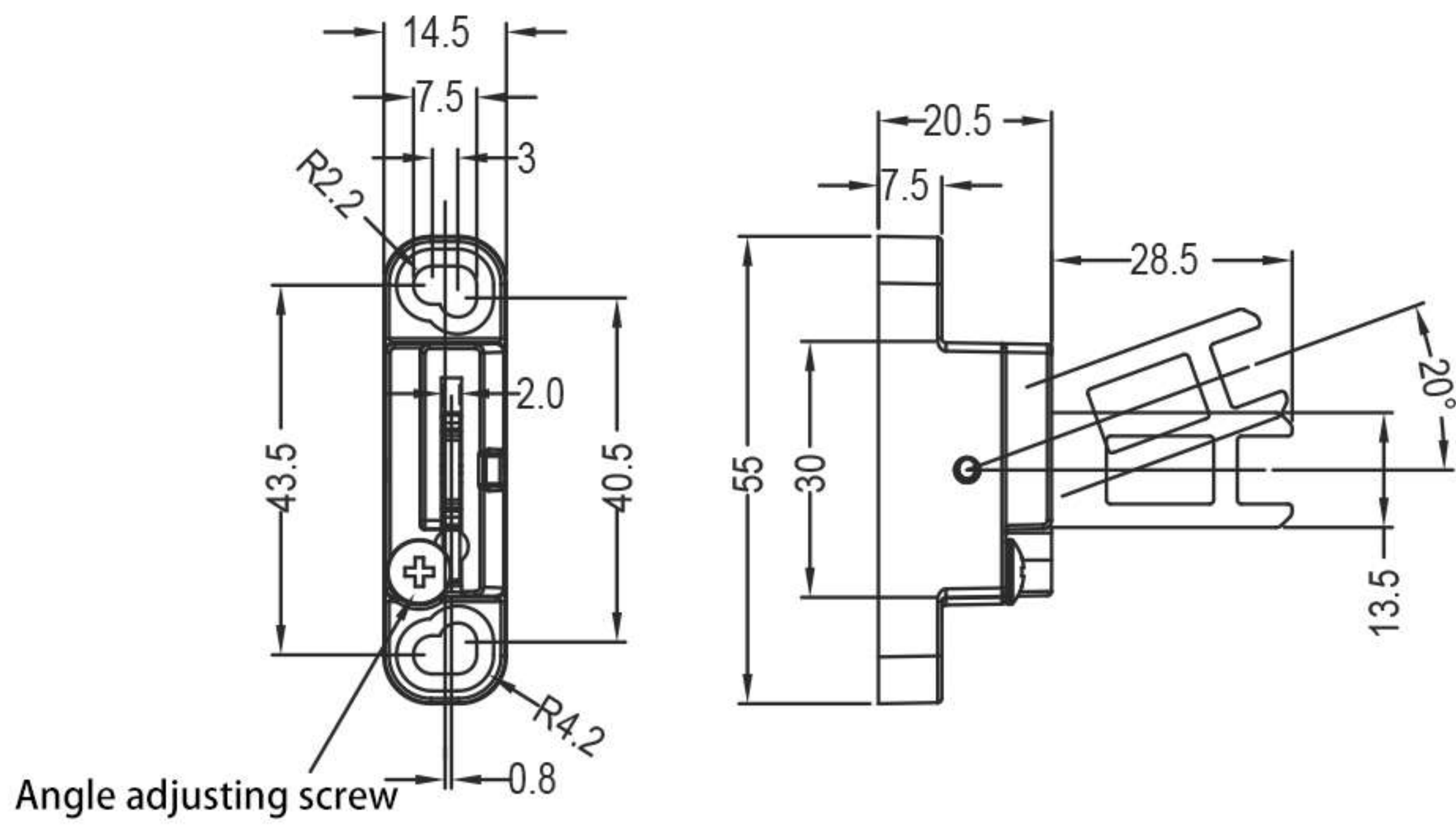
KXS-K3S
Long T type operating key with cushion



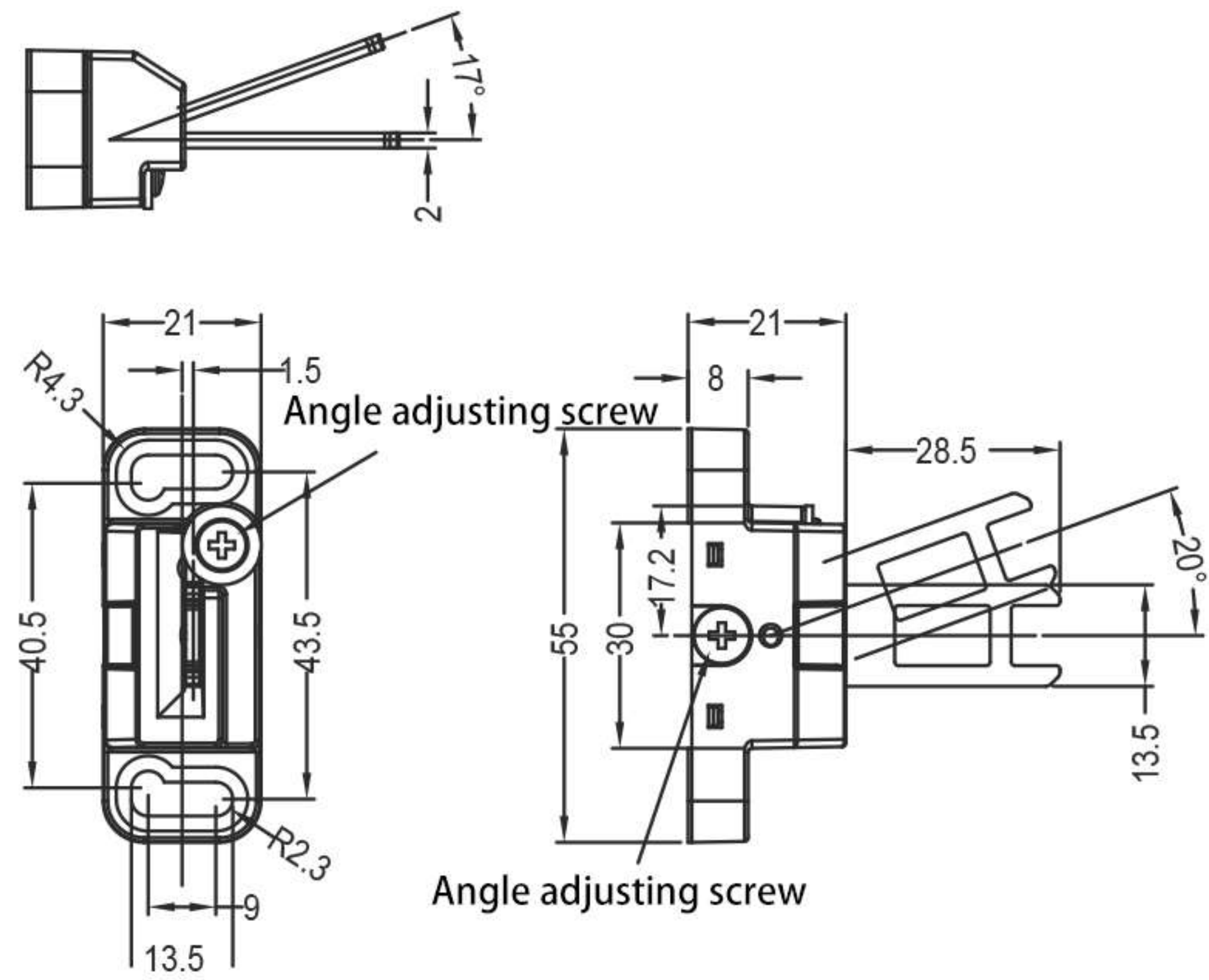
KXS-K4S
Long L type operating key with cushion



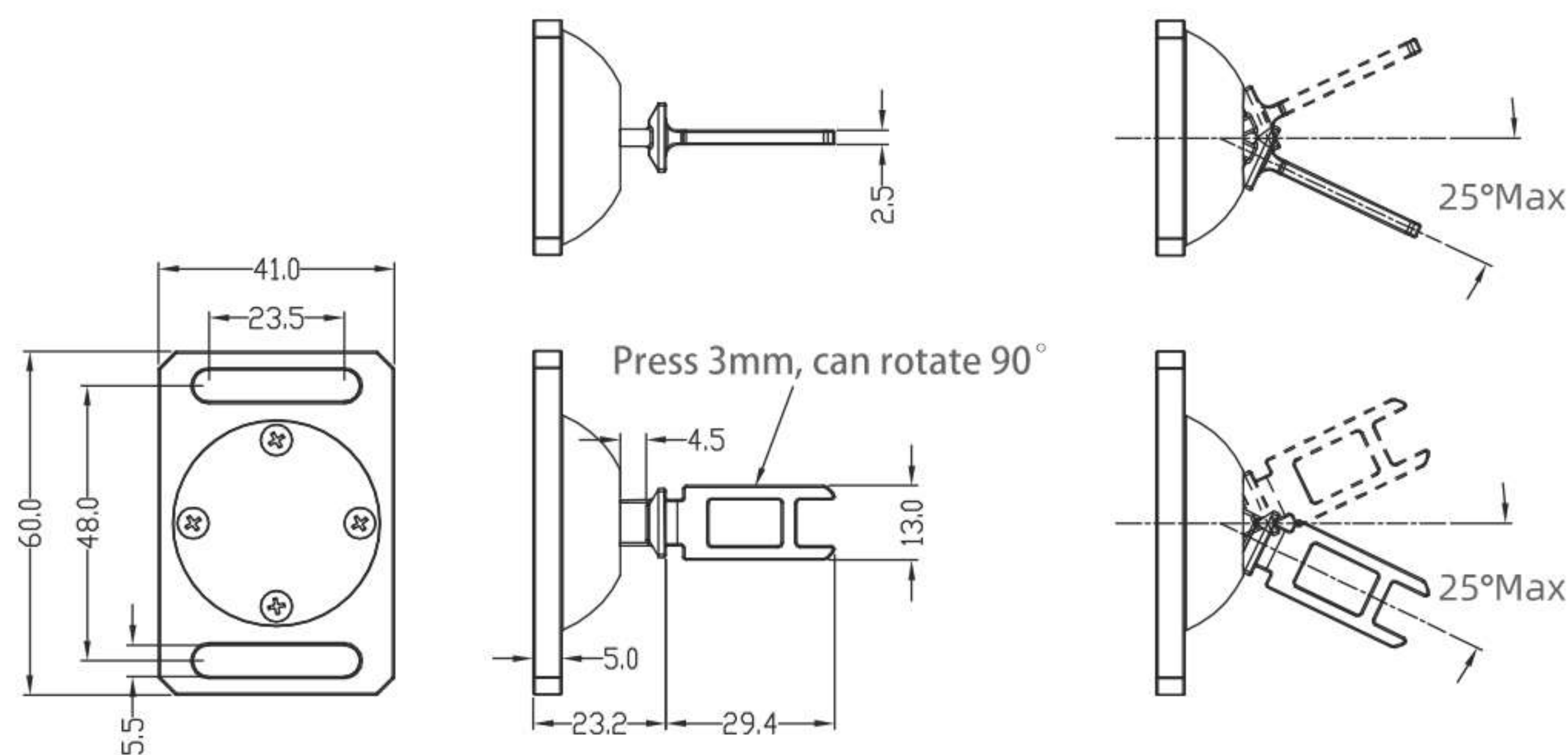
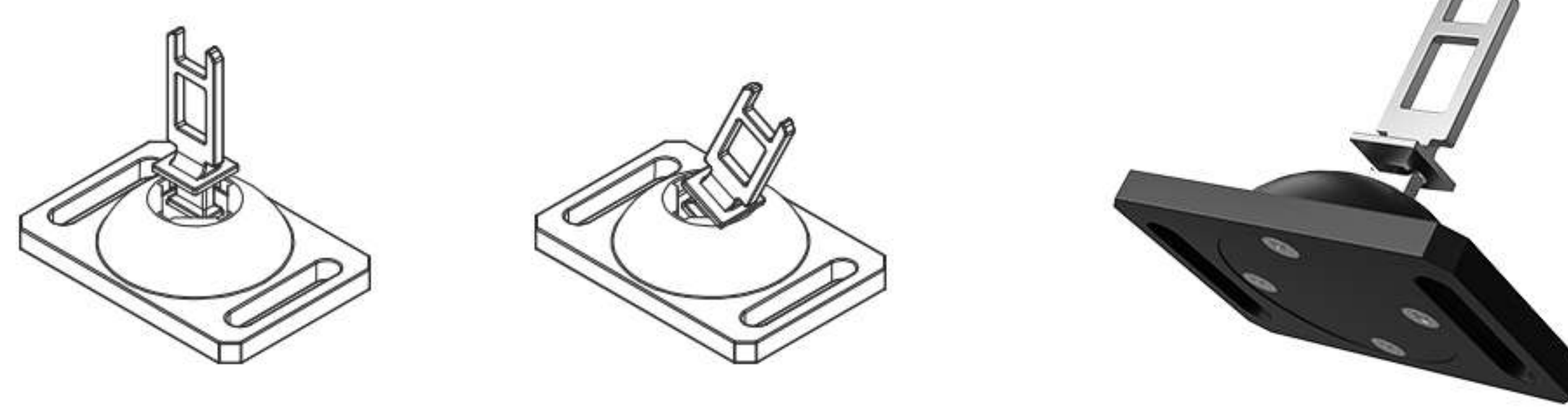
KXS-K5
Horizontal adjustable operating key



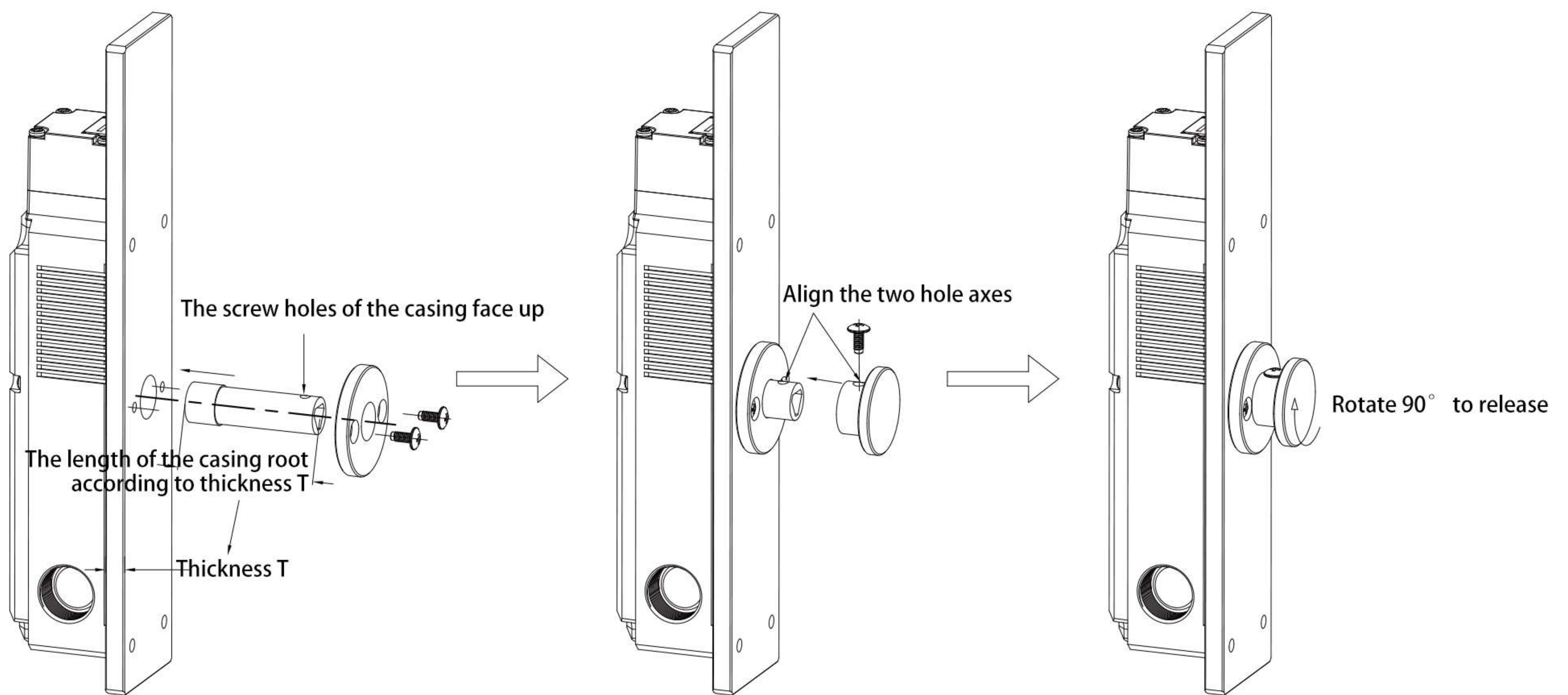
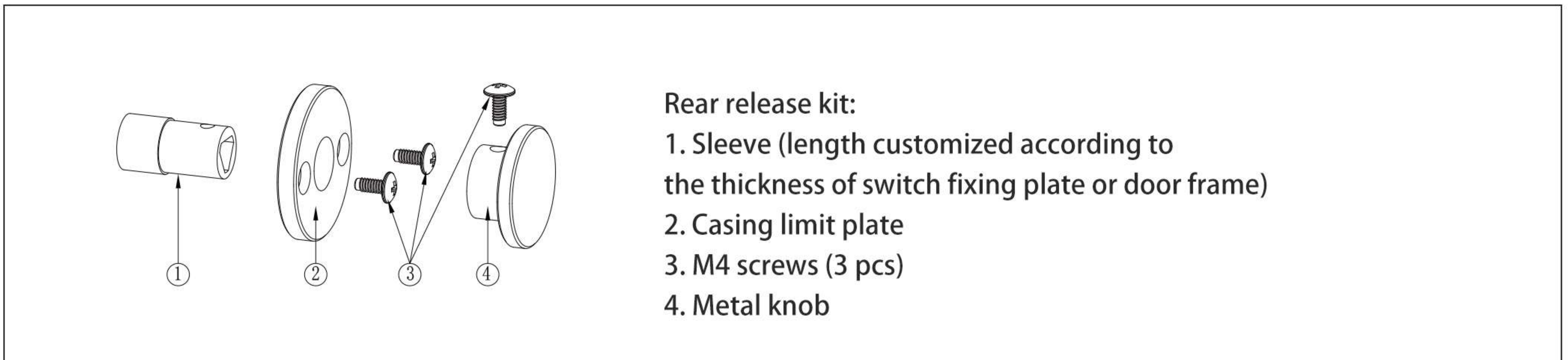
KXS-K6
Horizontal/vertical adjustable operating key



KXS-K7
Buffer key



● KXSR-K-□□□-N (Release of the rear side)



Step 1:

1. The electromagnetic lock switch is first installed on the switch fixing plate or the door frame;
2. Put the casing through the switch fixing plate or the door frame as shown in the figure and insert it into the unlocking knob on the back of the electromagnetic lock switch;
3. Install the bushing limit plate to the switch fixing plate or the door frame with M4 screws.

Step 2:

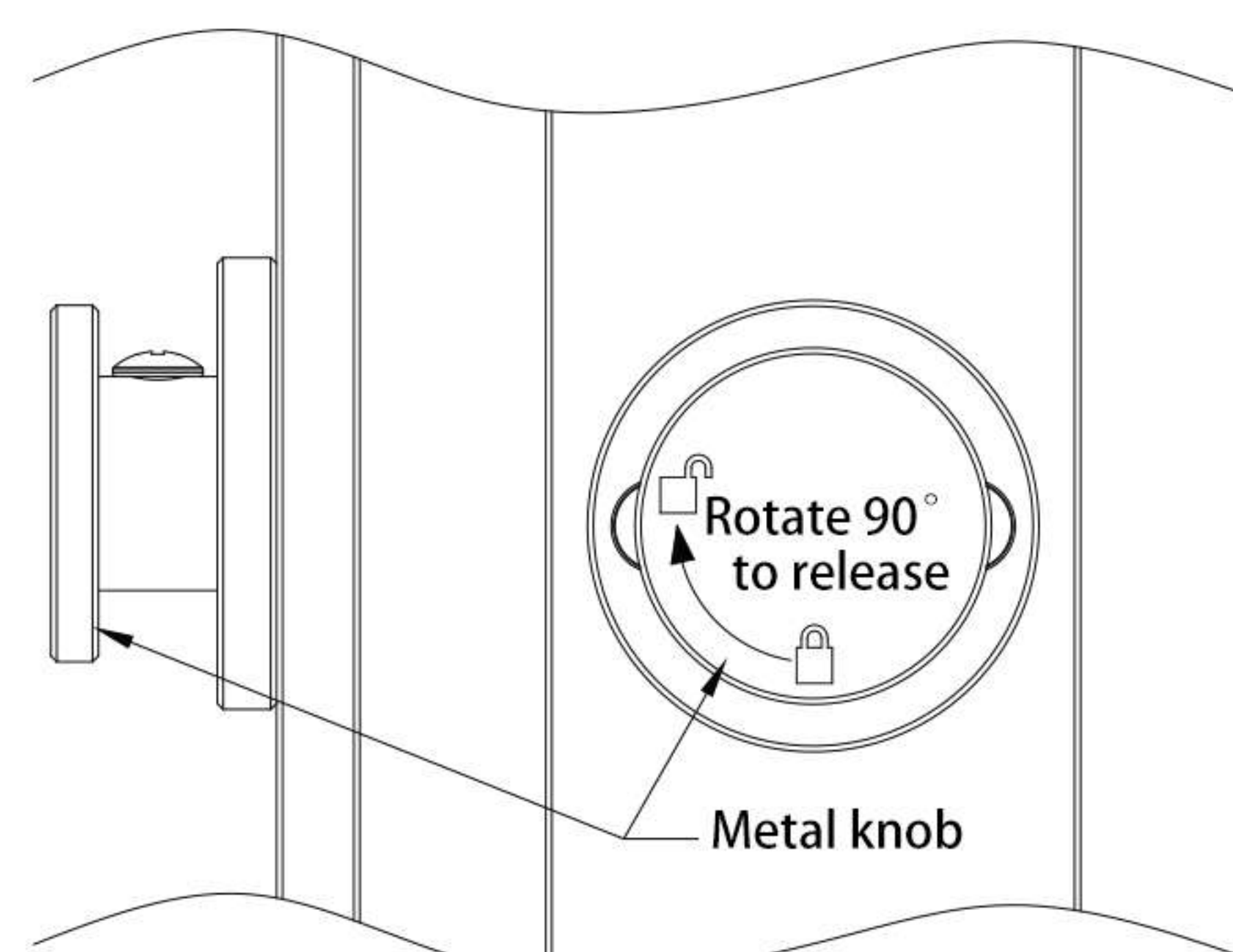
1. Insert the metal knob into the casing and align the axes of the two holes;
2. Fasten with M4 screws.

Step 3:





1. The installation is completed as shown in the figure.
2. The metal knob can only be rotated 90° clockwise.

Back Unlock Knob (KXSR-K-□□□N type)



- Emergency evacuation when the unlocking knob on the back is accidentally stranded in the safety barrier (dangerous area) by the operator.
- Turn the metal knob 90° clockwise, the lock is released and the door can be opened.
- To restore the locked state, please turn the metal knob 90° counterclockwise. When the metal knob is in the unlocked position, the door cannot be locked even if the door is closed.
- Be sure to install the rear release knob where it is accessible inside the safety barrier (hazardous area).
- Do not use tools, etc. to operate the unlocking knob on the back, or use excessive force, turn to a direction other than the operating direction, or apply force beyond the rotation angle range, so as to avoid damage to the knob parts and cause inoperability.



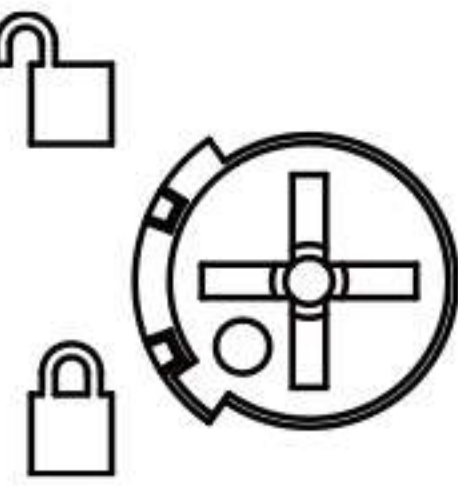
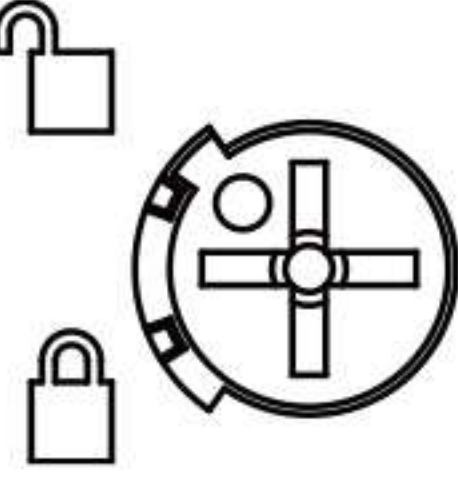
● KXSR-K-□□□-□

Release screw type	Release of the front side	One font+hexagonal star	Release of the rear side	Special Knob + Conduit
Universal				
Manual releae				

● KXSR-S-□□□

Release screw type	One font+hexagonal star
Universal	
Manual releae	

● KXSR-B-□□□□□

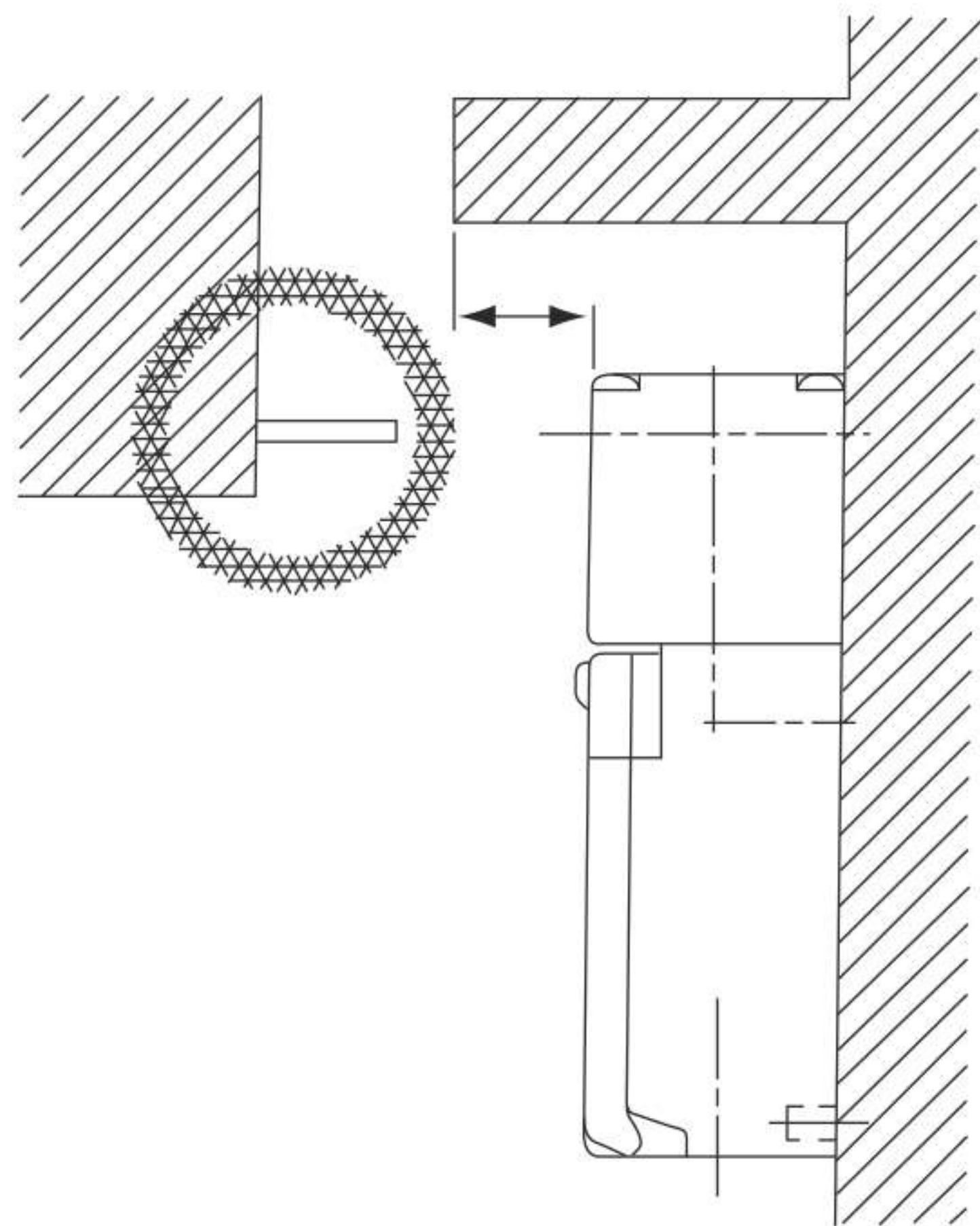
Release screw type	Cross
Universal	
Manual releae	

● Carefully read the following specifications

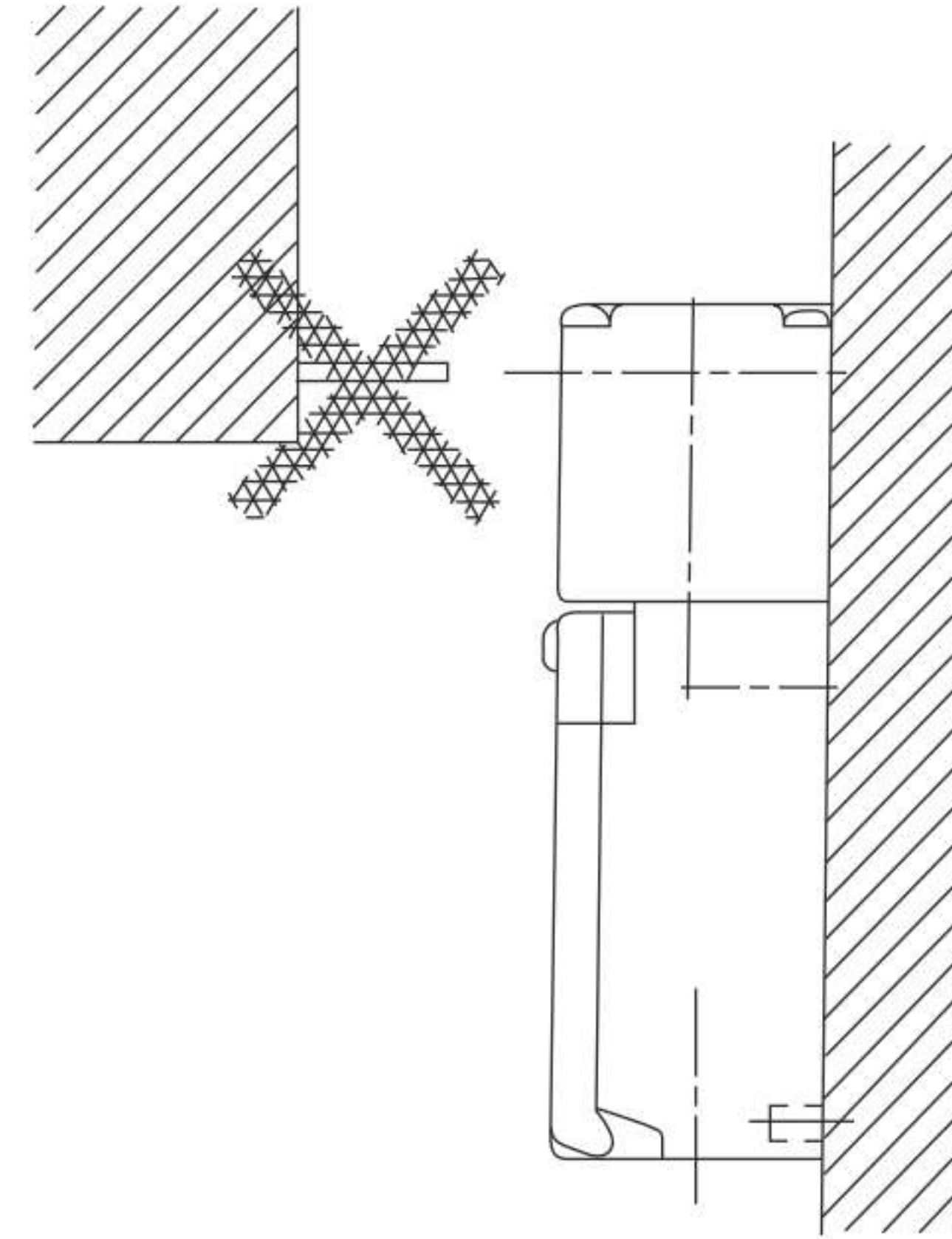
1. When dealing with power outages or emergencies, you can manually operate the emergency unlock button
2. Before operating the emergency release button, it is necessary to raise the inner hexagonal star screw (except KXSR-B series), otherwise the emergency release button will not be unlocked normally and the emergency release button will be damaged.
3. When rotating the emergency unlock button, it must be rotated to the end, otherwise there is a risk of damage to the switch or failure to operate normally.
4. Please control the torque of the emergency unlock key below 0.2N.m, otherwise there is a risk of damage.
5. Every time you use the emergency unlock key to unlock and deal with emergency situations, you must reset the emergency unlock key, otherwise it will affect the normal locking function of the switch, which may cause personal injury or safety accidents.
6. Only the device administrator can operate the emergency unlock key.

● KXS-□□

When using the switch, a baffle should be installed on the top to prevent the key from being inserted too far to damage the mechanism, and the distance between the baffle and the switch should be less than 3mm to prevent inaction.





Normal used state



Unsuitable used state

● Caution

⚠ Attention (violation of this may result in injury or damage to the product)

01. In order to protect personal safety and prevent accidents, please install other safety protection devices when using this product.
02. Please configure the equipment administrator during the use of this product, the administrator requirements are as follows :
 - Familiar with the installation, setting, use, repair, maintenance of this product operator.
 - Familiar with and abide by the national or regional rules/regulations for the use of this product type of equipment personnel.
03. After installing the product, please debug and ensure that the function of the product meets the expected protection requirements before the equipment is put into operation. When the product is not set according to the expected action, it may cause personal injury or potential safety hazard.
04. It is forbidden to use in places containing explosive gas, flammable gas, corrosive gas, places with severe temperature changes, places with high humidity and possible condensation, places with strong vibration, places with solvents such as diluents and detergents.
05. Products have a variety of modular coding functions, please confirm the use requirements before leaving the factory, and choose the appropriate model according to the use requirements, do not arbitrarily transform the product, otherwise it may reduce the performance of the product and damage the switch.
06. Do not use the safety switch as the stop element of the door. Please be sure to set a mechanical stop element to limit the position of the door. Do not use the safety switch as a door lock device. Please add a mechanical door bolt to set the door lock. Otherwise, due to the vibration or the door itself, the safety switch operation key may not be able to be inserted into the switch actuator accurately due to the deviation of the safety switch operation key, and may even damage the switch.
07. The power-on lock type safety switch remains locked when the power is on, and is in the unlocked state when the power is off. In case of an emergency power failure or other unexpected situation, the switch solenoid will be unlocked due to power failure. At this time, the inside of the device may not stop completely due to inertia and other reasons. Please make sure that the machine stops completely. Failure to do so may result in the risk of personal injury.
08. When the safety switch is in the continuous power-on state of the solenoid, the maximum temperature of the switch panel is about 25° C higher than the ambient temperature. (The maximum temperature of the upper cover of the switch is about 65° C when the ambient temperature is 40° C), please pay attention to protection. Otherwise, there may be a risk of personal burns.
09. If the unit is used with the emergency release knob in  position, the electromagnetic lock may not work, resulting in some units being operated when they should be stopped. Always put the emergency release knob in  position before using the device. Also, check the status of lockouts and safety circuits.
10. Be sure to insert the key into the head operation hole before changing the head orientation. Failure to do so could damage the switch, causing some equipment to remain operational during an emergency stop.

● Caution

⚠ Attention (Violation of this may result in personal injury or death or product damage)

- Before installation, please confirm the wiring diagram before wiring.
- Please use within the rated specification range.
- Please wire the solenoid with correct polarity, and do not apply a voltage outside the rated voltage range.
- When replacing the head, prevent foreign bodies from entering the switch. Tighten the screws.
- When opening the protective cover, prevent foreign bodies such as debris, liquid, and cable residue.
- Use reliable fastening methods such as welding screws to fix the operating key in a reasonable position.
- Do not push or pull the operating key to unlock the gate.
- Do not insert the operation key while the door is open. Otherwise, the machine may move and cause injury.
- Please use the special operation key configured with the safety switch of our company, and keep the spare operation key.
- Do not use metal cable glands or metal conduits.

● Use environment

Do not immerse the switch in oil or water, or use it in a location subject to continuous splashing of oil or water. Otherwise, it may cause oil or water to enter inside the switch. (The IP67 protection level of the switch stipulates the amount of water ingress after the switch is immersed in water for a certain period of time).