

TECHNICAL DATA SHEET

SAFETY INTERLOCK SWITCHES DEVICE **OX-W2** series



Contents

- Product features
- Technical data
- Electrical wiring
- Accessories
- Installation diagram
- Back unlocking
- Safety door bolt





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Product Features

 The safety door switch with locking function can ensure that the safety protection device door and other protective covers remain in a safe state even if the dangerous state is not eliminated.

OX-W2 series

Metal head
4 sets of gold plated contacts
14 contact combinations
Locking force 1300N
Indicator light+emergency unlocking
Optional back unlocking function
Adapted to 11 types of operation keys



Suitable for monitoring safety doors and windows

High strength wear-resistant engineering plastic with built-in 304 stainless steel components Forced mechanical interlocking self detection structure with extremely high reliability

Product application

Used for monitoring places such as safety doors and windows, in accordance with EN ISO 14119 and GB/T 18831-2002.

- Automated production line
- · Robot production line

- Hazard testing area
- Isolation places, etc







Technical data

Electrical parameters		
Rated voltage	24VDC	
Rated current	1mA	
Light source color	green	
Rated working voltage	DC24V±10%	
Rated current	200mA (initial value)	
Rated power	4.8W	
Rated insulation voltage (Ui)	300V	
Rated impulse withstand voltage (Uimp)	2.5kV	
Rated open thermal current (Ith)	10A	
Rated limited short-circuit current	1000A	
Use category	AC-15	DC-13
Rated working voltage (Ue)	240V	30V
Rated operating current (le)	3A	2.3A

Mechanical parameters	
Dimensions (w*h*l)	39*39.4*183mm
Insulation class	Class B (130°C)
Shell material	PA66 flame retardant
Contact material	Gold Plated Silver Alloy
Protection level	IP67 (EN60947-5-1, except key operation hole)
	Mechanical more than 1 million times
Service life	Electric appliances more than 150,000 times
Tensile strength when locked	1300N
Forced disengagement force	≥80N
Forced breakaway distance	≥10mm
Allowable operating speed	0.05-0.5m/s
Allowable operating frequency	Up to 20 operations/min

Environmental data	
Ambient temperature	-20 °C~60 °C, without freezing
Environment humidity	Below 85% RH

Electrical wiring

1. Function and purpose

The use of safety door locks to monitor the status of safety doors can ensure reliable shutdown of equipment.

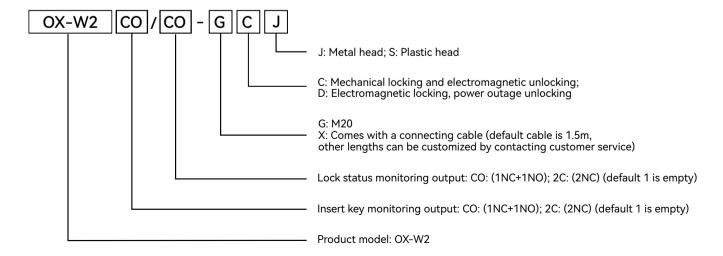


2.Connection example

The safety door lock can be connected to the safety relay to form a high-level safety circuit. Used to control reliable stopping and starting of equipment.



Model Selection



• The following wiring diagram shows inserting the operation key and being in the lock state

• The following wiring		ct type		diagram	Contact action
Model	Door monitoring	+lock monitoring	Door monitoring	Lock monitoring	: ON : OFF
				E2 E1 (-)	Operating the key Fully inserted Trip Operating the key Pulling out
OX-W2-CO/CO-GD-J OX-W2-CO/CO-GC-J	1NC+1NO	1NC+1NO	(a) 11 12 44	21 22 1	Locked position 1112 2122 3334 4344
OX-W2-CO/2C-GD-J OX-W2-CO/2C-GC-J	1NC+1NO	2NC	33 34	211 22 1	1112 2122 3334 4142
OX-W2-2C/CO-GD-J OX-W2-2C/CO-GC-J	2NC	1NC+1NO	 ☐ 111 12 ☐ 311 32 	21 22 1	1112 2122 3132 4344
OX-W2-2C/2C-GD-J OX-W2-2C/2C-GC-J	2NC	2NC	 ☐ 111 12 ☐ 31 32 	21 22 1	1112 2122 3132 4142
OX-W2-C/2OC-GD-J OX-W2-C2O/C-GC-J	1NC+2NO	1NC	33 34 43 44	211 22 1	1112 2122 3334 4344
OX-W2-3C/C-GD-J OX-W2-3C/C-GC-J	3NC	1NC	$ \begin{array}{ccccc} \bigcirc & 111 & 12 \\ \bigcirc & 311 & 32 \\ \bigcirc & 411 & 42 \end{array} $	21 22 1	1112 2122 3132 4142
OX-W2-2C/OC-GD-J OX-W2-2CO/C-GC-J	2NC+1NO	1NC	33 34 41 42	21 22	1112 2122 3334 4142
OX-W2-C/3C-GD-J OX-W2-C/3C-GC-J	1NC	3NC		21 22 IF 31 32 IF 41 42 IF	1112 2122 3132 4142
OX-W2-C/C2O-GD-J OX-W2-C/C2O-GC-J	1NC	1NC+2NO		21 22 LF 33 34 LF 43 44 LF	1112 2122 3334 4344
OX-W2-C/2CO-GD-J OX-W2-C/2CO-GC-J	1NC	2NC+1NO		21 22 In 33 34 In 41 42 In	1112 2122 3334 4142
OX-W2-O/3C-GD-J OX-W2-O/3C-GC-J	1NO	3NC	33] 34	115 12 Lb 215 22 Tb	1112 2122 3334 4142
OX-W2-O/2CO-GD-J OX-W2-O/2CO-GC-J	1NO	2NC+1NO	33] 34	111 12 LF 211 22 LF	1112 2122 3334 4344
OX-W2-2C/2O-GD-J OX-W2-2C/2O-GC-J	2NC	2NO	 ☐ 11 12 ☐ 31 32 	23 24 1	1112 Locked position 2324 3132 4344
OX-W2-20/2C-GD-J OX-W2-20/2C-GC-J	2NO	2NC	33 34	111 12 H 211 22 H	Docked position 1112 2122 3334 4344

Electromagnetic locking type

Safaty door action status	State 1	State 2	State 3	State 4	When manua	ally unlocking
Safety door action status	OFF	OFF	ON	ON	OFF	ON
Electromagnet power supply	ON	OFF	ON	OFF		or 🗐
OX-W2-CO/CO-GD-J	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM
E1 (+) (+) (-) (11) 12 (-) (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
OX-W2-CO/2C-GD-J	CIRCUIT DIAGRAM 111 12 211 22 33 34 41 42	CIRCUIT DIAGRAM 11 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11
OX-W2-2C/CO-GD-J	CIRCUIT DIAGRAM 11 12 21 22 31 32 43 44	CIRCUIT DIAGRAM 11 12 21 22 31 32 43 44	CIRCUIT DIAGRAM 11 12 21 22 31 32 43 44	CIRCUIT DIAGRAM 11] 12 21] 22 31] 32 43 44	CIRCUIT DIAGRAM 11+ 12 21 22 31+ 32 43+ 44	CIRCUIT DIAGRAM 11 12 21 22 31 32 43 44
OX-W2-2C/2C-GD-J	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM	CIRCUIT DIAGRAM
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	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
OX-W2-C/2OC-GD-J	CIRCUIT DIAGRAM 111 12 21 22 33 34 43 44	CIRCUIT DIAGRAM 11 12 21 22 33 34 43 44	CIRCUIT DIAGRAM 11 12 21 22 33 34 43 44	CIRCUIT DIAGRAM 11] 12 21] 22 33 34 43 44	CIRCUIT DIAGRAM 11 12 21 22 33 34 43 44	CIRCUIT DIAGRAM 11 12 21 22 33 34 43 44
OX-W2-3C/C-GD-J	CIRCUIT DIAGRAM 111 12 21 22 31 32 411 42	CIRCUIT DIAGRAM 11 12 21 22 31 32 41 42	CIRCUIT DIAGRAM 11] 12 21] 22 31] 32 41] 42	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11 12 21 22 31 32 41 42	CIRCUIT DIAGRAM 11.] 12 21.] 22 31.] 32 41.] 42
OX-W2-2C/OC-GD-J	CIRCUIT DIAGRAM 111 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11] 12 21] 22 33 34 41] 42

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

Electromagnetic locking type

Safaty door action status	State 1	State 2	State 3	State 4	When manua	ally unlocking
Safety door action status	OFF	OFF	ON	ON	OFF	ON
Electromagnet power supply	ON	OFF	ON	OFF		or do
OX-W2-C/3C-GD-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E1 (+) (+) (+) (+) (+) (+) (+) (+) (+) (+)	11 12	11 12	11] 12	11] 12	11 12	11] 12
	21 22	21 22	21] 22	21] 22	21 22	21] 22
	31 32	31 32	31] 32	31] 32	31 32	31] 32
	41 42	41 42	41] 42	41] 42	41 42	41] 42
OX-W2-C/C2O-GD-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E1 E1 (+) (+) (-) 111 12 21 22 14 33 34 14 14 14	11 12	11 12	11 12	11 12	11 12	11 12
	21 22	21 22	21 22	21 22	21 22	21 22
	33 34	33 34	33 34	33 34	33 34	33 34
	43 44	43 44	43 44	43 44	43 44	43 44
OX-W2-C/2CO-GD-J	CIRCUIT DIAGRAM 111 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11.1 12 21.1 22 33.1 34 41.1 42
OX-W2-O/3C-GD-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E2 E1 E1 E1 E1 E1 E1 E1 E1 E1	11 12	11] 12	11 12	11 12	11 12	11 12
	21 22	21] 22	21 22	21 22	21 22	21 22
	33 34	33] 34	33 34	33 34	33 34	33 34
	41 42	41] 42	41 42	41 42	41 42	41 42
OX-W2-O/2CO-GD-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E1 E1 (+) (+) (+) (1) 11 12 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	11 12	11] 12	11 12	11 12	11 12	11 12
	21 22	21] 22	21 22	21 22	21 22	21 22
	33 34	33] 34	33 34	33 34	33 34	33 34
	43 44	43 44	43 44	43 44	43 44	43 44
OX-W2-2C/2O-GD-J E1 E1 (+) (+) (+) (-) (-) (-) (-) (-) (-) (-) (-) (-) (-	CIRCUIT DIAGRAM 111 12 23 24 31 32 43 44	CIRCUIT DIAGRAM 11 12 23 24 31 32 43 44	CIRCUIT DIAGRAM 11 12 23 24 31 32 44 44	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11+ 12 23+ 24 31+ 32 43+ 44	CIRCUIT DIAGRAM 11
OX-W2-2O/2C-GD-J	CIRCUIT DIAGRAM 11 12 21 22 33 34 43 44	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11

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

Mechanical locking type

Cofoty door action status	State 1	State 2	State 3	State 4	When manua	ally unlocking
Safety door action status	OFF	OFF	ON	ON	OFF	ON
Electromagnet power supply	ON	OFF	ON	OFF		or 🗐
OX-W2-CO/CO-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E1 (+) (+) (-) (1) 12 12 14 22 14 33 34 34 14	11 12	11 12	11 12	11 12	11 12	11 12
	21 22	21 22	21 22	21 22	21 22	21 22
	33 34	33 34	33 34	33 34	33 34	33 34
	43 44	43 44	43 44	43 44	43 44	43 44
OX-W2-CO/2C-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E1 (+) (+) (+) (21) 22 14 (33) 34 (41) 42 15	11 12	11 12	11 12	11 12	11 12	11 12
	21 22	21 22	21 22	21 22	21 22	21 22
	33 34	33 34	33 34	33 34	33 34	33 34
	41 42	41 42	41 42	41 42	41 42	41 42
OX-W2-2C/CO-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E1 (+) (+) (-) (1) 12 21 22 4 (-) (3) 44 4	11 12	11 12	11] 12	11 12	11 12	11] 12
	21 22	21 22	21] 22	21 22	21 22	21] 22
	31 32	31 32	31] 32	31 32	31 32	31] 32
	43 44	43 44	43 44	43 44	43 44	43 44
OX-W2-2C/2C-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
□ E2 E1 (+) □ 11 + 12 □ 21 + 22 □ □ □ 31 + 32 □ 41 + 42 □ □	11 12	11 12	11 12	11 12	111 12	11] 12
	21 22	21 22	21 22	21 22	21 22	21] 22
	31 32	31 32	31 32	31 32	31 32	31] 32
	41 42	41 42	41 42	41 42	41 42	41] 42
OX-W2-C2O/C-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E2 E1 (+) (+) (-) 11 12 12 13 34 44 43 44 44	11 12	11 12	11 12	11 12	11 12	11] 12
	21 22	21 22	21 22	21 22	21 22	21] 22
	33 34	33 34	33 34	33 34	33 34	33 34
	43 44	43 44	43 44	43 44	43 44	43 44
OX-W2-3C/C-GC-J	CIRCUIT DIAGRAM 11 12 21 22 31 32 41 42	CIRCUIT DIAGRAM 11 12 21 22 31 32 41 42	CIRCUIT DIAGRAM 11 12 21 22 31 32 41 42	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11+ 12 21 22 31+ 32 41+ 42	CIRCUIT DIAGRAM 11
OX-W2-2CO/C-GC-J	CIRCUIT DIAGRAM 111 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 111 12 211 22 33 34 41 42	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 11	CIRCUIT DIAGRAM 111 12 21 22 33 34 41 42	CIRCUIT DIAGRAM 11

Note: In case of emergency situations such as power outage and door action status before wiring and power on, the lock of the operating key can be manually released.

Mechanical locking type

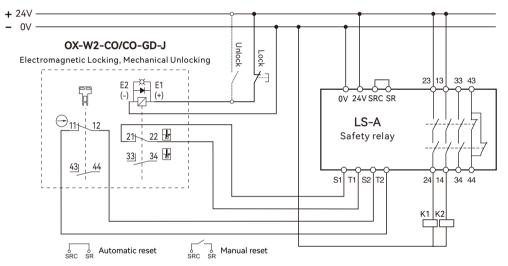
Safety door action status	State 1	State 2	State 3	State 4	When manua	ally unlocking
Safety door action status	OFF	OFF	ON	ON	OFF	ON
Electromagnet power supply	ON	OFF	ON	OFF		r 🗐
OX-W2-C/3C-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E1 E1 (+) (-) 111-12 231-22 H 311-32 H 411-42 H	11) 12	11 12	11] 12	11 12	11 12	11 12
	21 22	21 22	21] 22	21 22	21 22	21 22
	31 32	31 32	31] 32	31 32	31 32	31 32
	41 42	41 42	41] 42	41 42	41 42	41 42
OX-W2-C/C2O-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E2 (+) E1 (+) (-) (-) (1) (1) (2) (2) (4) (5) (6) (7) (7) (8) (9) (14) (15) (15) (15) (15) (15) (15) (15) (15	11 12	11 12	11 12	11] 12	11 12	11] 12
	21 22	21 22	21 22	21] 22	21 22	21] 22
	33 34	33 34	33 34	33 34	33 34	33 34
	43 44	43 44	43 44	43 44	43 44	43 44
OX-W2-C/2CO-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E1 (+) (-) (-) (-) (-) (-) (-) (-)	11 12	11 12	11] 12	11] 12	11 12	11 12
	21 22	21 22	21] 22	21] 22	21 22	21 22
	33 34	33 34	33 34	33 34	33 34	33 34
	41 42	41 42	41] 42	41] 42	41 42	41 42
OX-W2-O/3C-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E2 E1	11 12 21 22 33 34 41 42	11	11 12 21 22 33 34 41 42			
OX-W2-O/2CO-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
E2 E1 (+) 111 12 E1 22 E1 331 34 44 E1	11 12	11 12	11 12	11 12	11] 12	11 12
	21 22	21 22	21 22	21 22	21] 22	21 22
	33 34	33 34	33 34	33 34	33] 34	33 34
	43 44	43 44	43 44	43 44	43 44	43 44
OX-W2-2C/2O-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
□ E1 (+) □ 11 12	11 12 23 24 31 32 43 44					
OX-W2-20/2C-GC-J	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT	CIRCUIT
	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM	DIAGRAM
Fig. (+) 111-12 211-22 33 34 44 Note: In case of emergency situations such as power of	11 12	11 12	11 12	11 12	11] 12	11] 12
	21 22	21 22	21 22	21 22	21] 22	21] 22
	33 34	33 34	33 34	33 34	33] 34	33 34
	43 44	43 44	43 44	43 44	43] 44	43 44

Note: In case of emergency situations such as power outage and door action status before wiring and power on, the lock of the operating key can be manually released.

Selection of safety locking device connected to safety relay

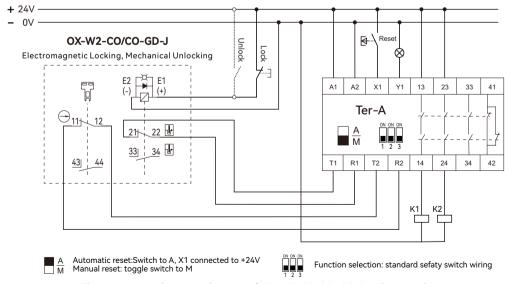
Name	Order separately	Model	Descriptions
Safety relay		LS-A	LS-A safety relays have three groups of NO and one group of NC, with strong control capabilities. They are suitable for various signal monitoring in industrial places with high safety requirements, including emergency stop signals, safety door opening and closing signals, safety light curtain signals, and two-handed button signals.
Safety relay	Multifunctional switching switch	Ter-A	Equipped with a mode switch, it can be used for most safety components, such as light curtains, safety switches, carpet contacts, two handed switches, etc. Automatic/manual reset paddles for quick configuration. Dual channel monitoring circuit, safe and reliable.

1.An example of the wiring diagram between the safety interlock switch and LS-A is as follows:



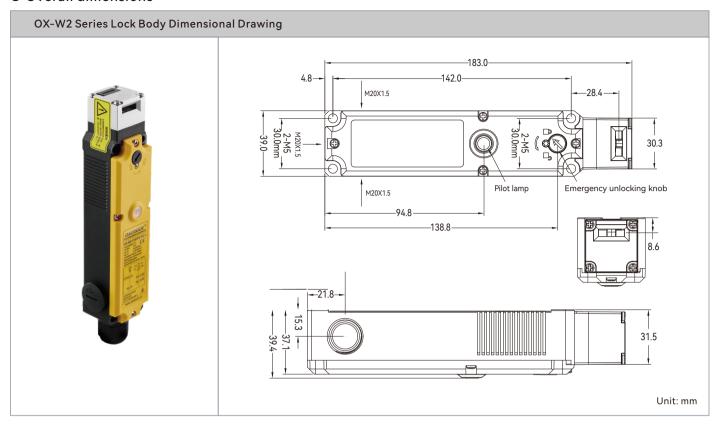
This is an example wiring diagram of OX-W2-CO/CO-GD-J.

2.An example of the wiring diagram between the safety interlock switch and Ter-A is as follows:

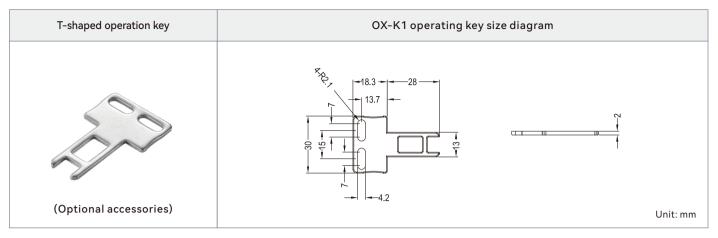


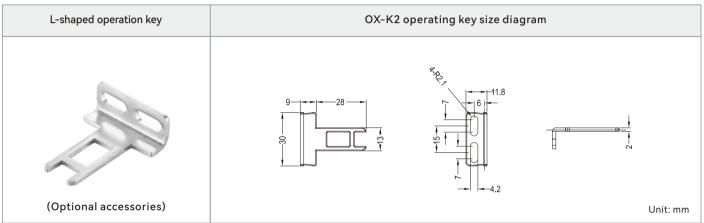
This is an example wiring diagram of OX-W2-CO/CO-GD-J with manual reset.

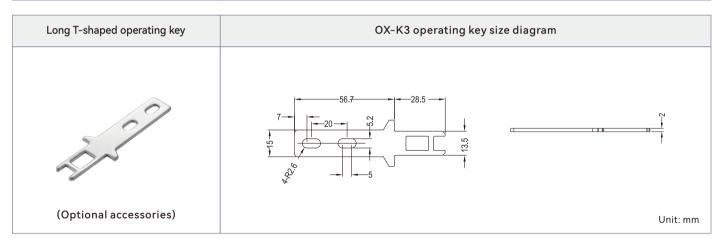
Overall dimensions

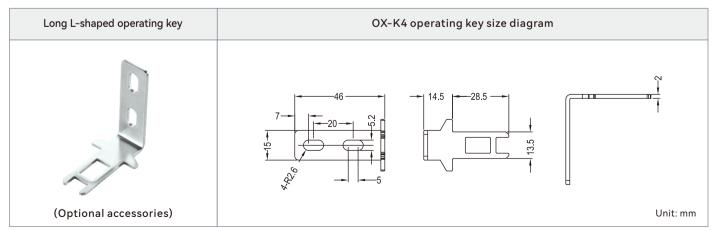


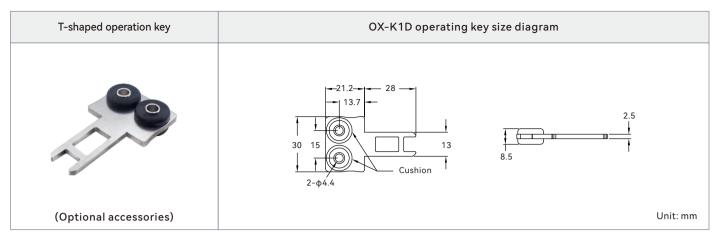
Accessories

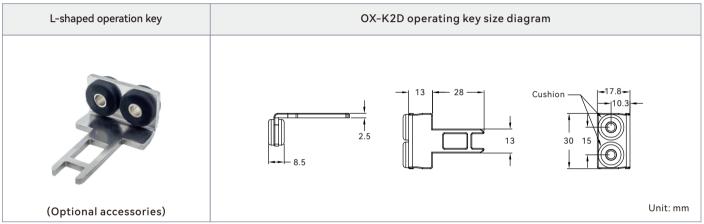


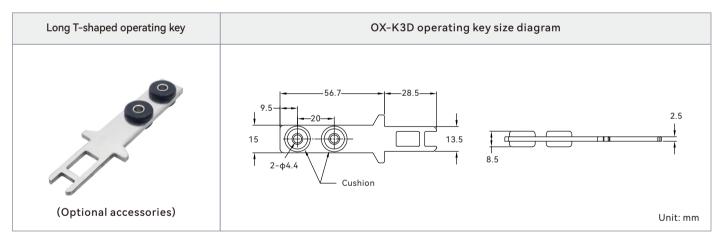


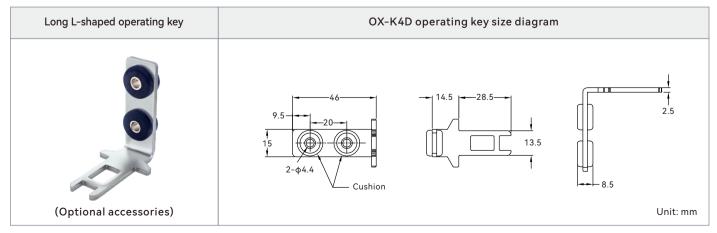


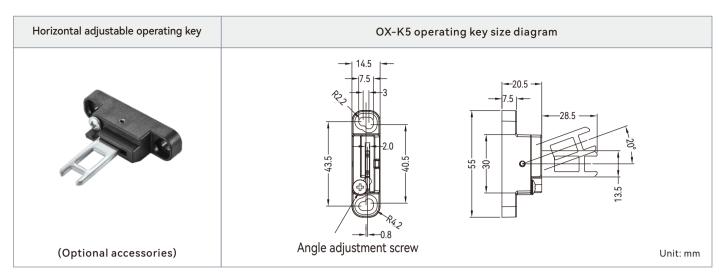


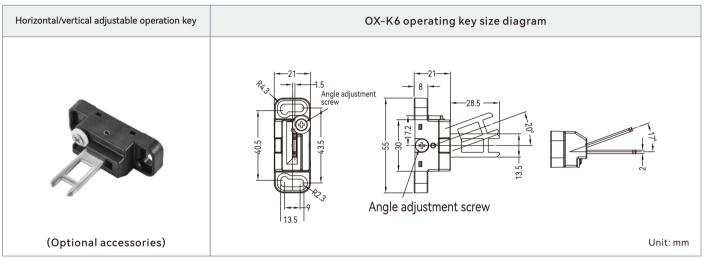


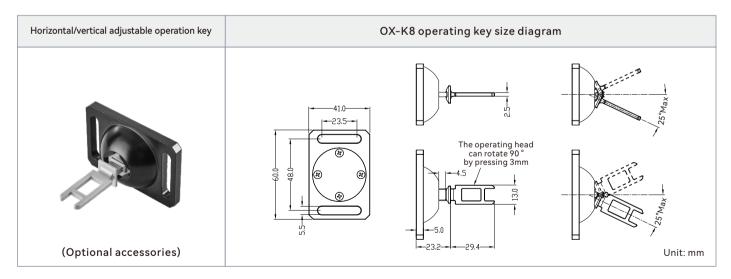






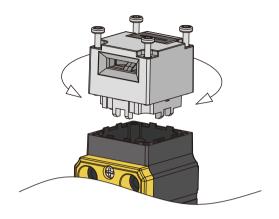




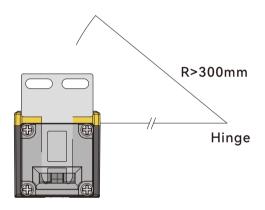


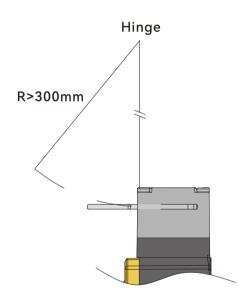
Installation diagram of OX-W2 operation key

• Loosen the four screws at the top of the head, rotate the head direction to select the appropriate operating keyhole position, and then proceed with installation.

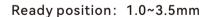


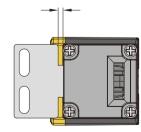
 When installed on a side hung door, it must be greater than the minimum radius.

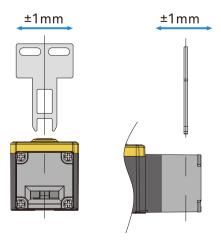




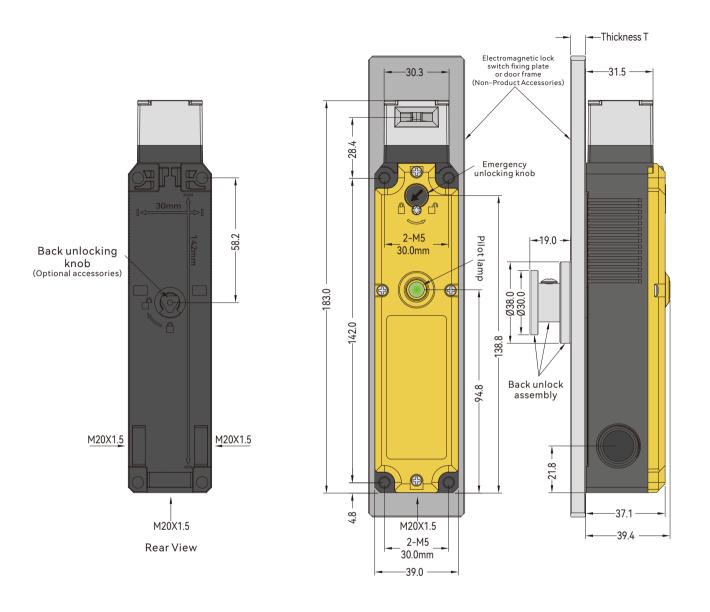
 Please install switches and operating keys within the prepared position range (1-3.5mm). The allowable error for the installation of the operating key is within ± 1mm of the center of the operating key insertion hole.

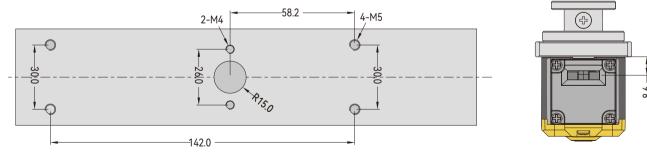






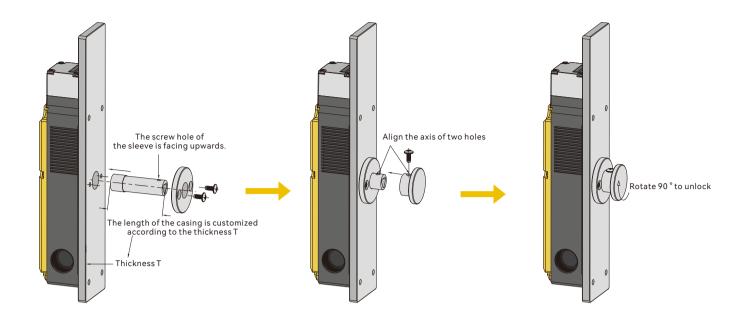
OX-W2 Installation diagram of back unlocking components





Opening Drawing of Switch Fixing Plate or Door Frame

Unit: mm



Step 1:

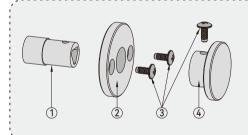
- 1. Install the electromagnetic lock switch onto the switch fixing plate or door frame first;
- 2. Thread the sleeve as shown in the figure through the switch fixing plate or door frame and insert it into the unlocking knob on the back of the electromagnetic lock switch;
- 3. Use M4 machine wire to install the sleeve limit plate onto the switch fixing plate or door frame.

Step 2:

- 1. Insert the metal knob into the sleeve and align it with the two hole axes;
- 2. Tighten with M4 screws.

Step 3:

- 1. The installation is completed as shown in the figure.
- 2. The metal knob can only be rotated clockwise by 90 $^{\circ}\!.$



Back unlocking accessories

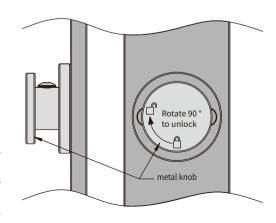
- ①Sleeve (length customized according to the thickness of the switch fixing plate or door frame)
- ②Sleeve limit plate
- 3M4 machine thread (3 pieces)
- 4)Metal knob

Back unlocking knob

- The back unlocking knob is a safety measure for emergency evacuation when operators are accidentally trapped in a safety barrier (dangerous area).
- Rotate the 90° metal knob clockwise to release the lock and the door can be opened.
- If you need to restore the locked state, please turn the metal knob counterclockwise by 90°. When the metal knob is in the unlocked position, even if the door is closed, the door cannot be locked.

Precautions for unlocking the knob on the back:

- Please make sure to install the back unlocking knob in a safe barrier (hazardous area) where it can be operated.
- Please do not use tools or other tools to operate the back unlocking knob, or apply excessive force or force in a direction other than the operating direction, as well as beyond the rotation angle range, to avoid damage to the knob components and inability to operate.



Emergency unlocking

Unlock screw type	Normal	Manual unlocking
Front unlocking		
Straight+Hexagram or cross		
Back unlocking		
Special knob+conduit		

- When dealing with power outages or emergencies, the emergency unlocking button can be manually operated.
- Before operating the emergency unlocking key, first raise the inner Hexagram screw, otherwise the emergency unlocking key cannot be unlocked normally and will be damaged.
- When rotating the emergency unlocking button, it is necessary to rotate it to the bottom, otherwise there is a risk of damaging the switch or not being able to operate normally.
- Please control the torque of the emergency unlocking key to below 0.2N. m, otherwise there is a risk of damage.
- After each use of the emergency unlocking button to unlock and handle an emergency situation, reset the emergency unlocking button. Otherwise, it may affect the normal locking function of the switch and potentially cause personal injury or safety accidents.
- Only device administrators can operate the emergency unlock button.

Usage environment

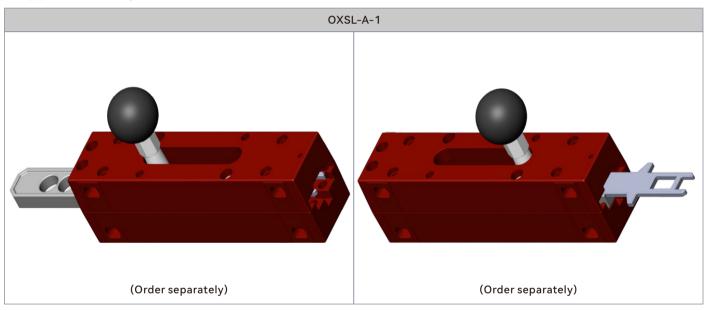
- 1.Do not immerse the switch in oil or water, or use the switch in a position where it is continuously splashed with oil or water.
- 2.Otherwise, it may cause oil or water to enter the interior of the switch.
- 3. The IP67 protection level of the switch specifies the water inflow after the switch is immersed in water for a certain period of time.

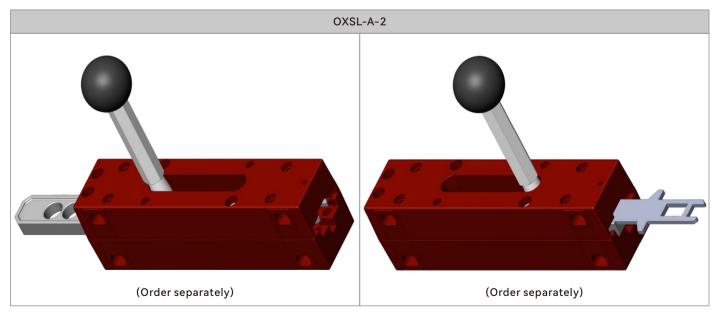
Safety door handles

Performance data

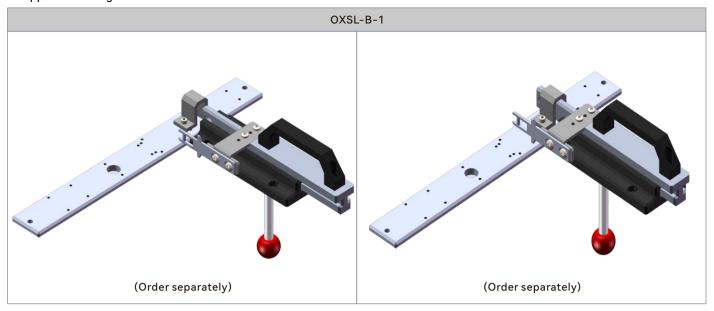
Model	OXSL-A-1	OXSL-A-2	OXSL-B-1	OXSL-B-2	
Mechanical life	1 x 10 ⁴	times	1 x 10 ⁶ times		
Installation location	Doors o	r fences	Doors or fences		
Installation mode	Left o	Left or right		r right	
Base material	Zinc alloy		Aluminium alloy		
Slider material	Zinc alloy		Aluminium alloy		
Handle material	Stainless steel		Stainless steel		
Ball head material	Plastic		Pla	stic	
Weight	0.6kg		0.95kg	1.05kg	

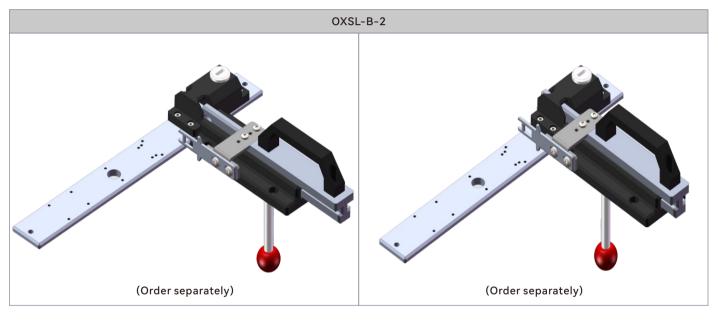
• Appearance diagram



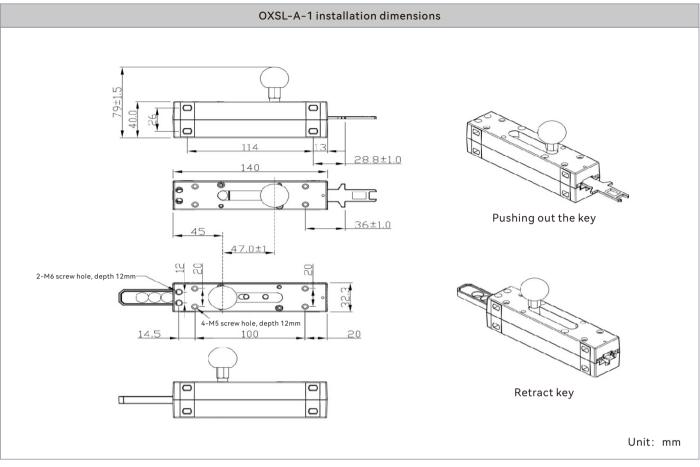


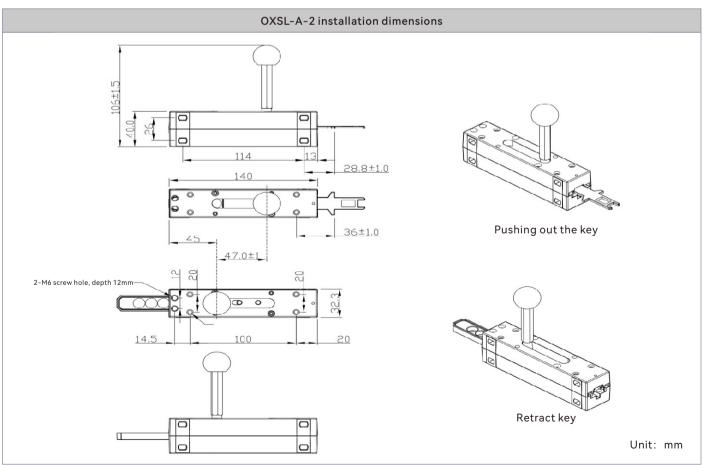
• Appearance diagram



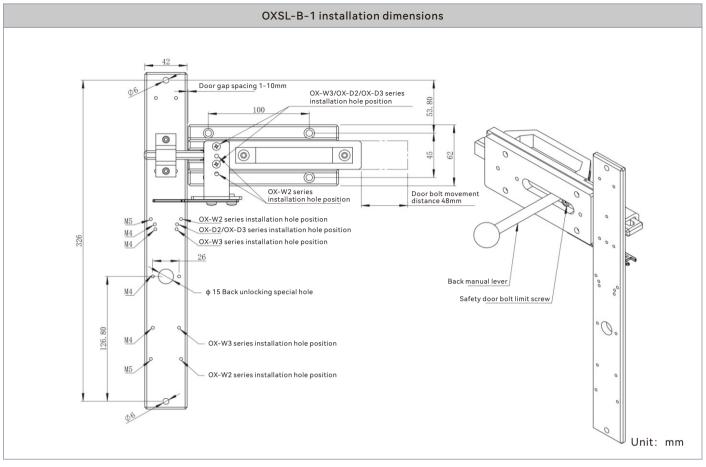


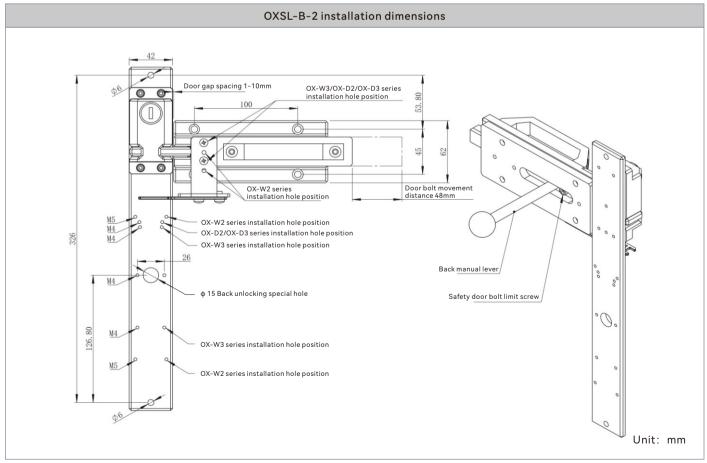
• Installation dimensions of safety door bolts





• Installation dimensions of safety door bolts





DADISICK is honored to provide you with safety protection.

Please be sure to thoroughly understand the content of the user manual before using our company's products.

For your safety, please be sure to follow the precautions in the user manual.

The specifications and accessories recorded in this manual may be changed when necessary, during improvements, or for other reasons. Please consult our sales personnel to confirm the actual specifications of our products.

SAFETY PRECAUTIONS

Warning (Violation of this item may result in death or serious injury)

01. In order to protect personal safety and prevent safety accidents, please install multiple safety protection devices when using this product. Otherwise, it may cause personal injury or safety accidents.

- 02. Please configure a device administrator during the use of this product. The administrator's requirements are as follows:
- ---Operators familiar with the installation, setup, use, and maintenance of this product
 ---Personnel who are familiar with and comply with the regulations/systems/regulations of the country or region corresponding to the type of equipment used in this product

Except for equipment managers, personnel unfamiliar with this product who operate the equipment may pose a risk of personal injury or safety accidents

03. After installing the product, please conduct debugging before the equipment is officially running and ensure that the product's functionality meets the expected protection requirements.

When the product is not set according to the expected action, it may cause personal injury or safety hazards.

04. It is prohibited to operate in places containing explosive, flammable, corrosive gases, with intense temperature changes, high humidity, and

Places, places with intense vibration, places with diluents, detergents, and other solvents for use.

Otherwise, there is a risk of explosion or fire, which may lead to a decrease in product performance.

05. The product has multiple modular coding functions. Please confirm the usage requirements before leaving the factory and select the appropriate model according to the usage requirements. Please do not allow any Intentionally transforming products. Otherwise, there is a possibility of reducing product performance and causing damage to the switch.

06. Do not use the safety switch as a stop element for 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 stop element

As the full switch is used as the door lock device, please add mechanical door bolts or other methods to set the door lock.

Otherwise, due to vibration or the door itself, the safety switch operation key may deviate and cannot be accurately inserted into the switch actuator, or even

There is a possibility of damaging the switch.

07. The safety switch of the power-on locking type remains locked when powered on, and unlocked when powered off. In case of emergency power outage or other accidents

In this case, the switch solenoid may be unlocked due to power outage, and the internal device may not be completely stopped due to inertia or other reasons. Please be sure to

It is necessary to confirm that the machine has completely stopped.

Otherwise, there may be a risk of personal injury.

- 08. When the safety switch is continuously energized by the solenoid, the maximum temperature of the switch panel is about 25 °C higher than
- 09. If the device is used while the emergency unlocking knob is in position 🗐, electromagnetic locking may not work, resulting in some devices stopping when they should be Still in operation at the end.

Before using the device, make sure to place the emergency unlocking knob in position 🖺 . In addition, please check the status of the locking and safety circuits.

10. Before changing the head direction, please make sure to set the emergency unlocking knob to the position or install the operation key.Otherwise, it may cause damage to the switch, resulting in some devices still operating when they should be stopped.

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

- 01. Before installation, confirm the wiring diagram before proceeding with the wiring.
- 02. Please use within the rated specification range.
- 03. Please correctly distinguish the polarity of the solenoid before wiring. Do not reverse the connection and do not apply voltage outside the rated voltage range.
- 04. When replacing the head, please prevent foreign objects from entering the interior of the switch and lock the fastening screws tightly.
- 05. When opening the protective cover, it is necessary to prevent debris, liquid, cable residue, and other foreign objects from entering the interior of the switch.
- 06. Please use reliable fixation methods such as welding and screws to secure the operating keys in a reasonable position to prevent detachment or displacement.
- 07. Do not perform unlocking operations when applying external forces such as pushing or pulling on the operating key (safety door).
- 08. When the door is open, please do not insert the operation key. Otherwise, the machine may move and cause injury.
- 09. Please use the dedicated operation key configured by our company's safety switch, and be careful to keep the backup operation key.
- 10. Do not use metal cable waterproof joints or metal conduits.