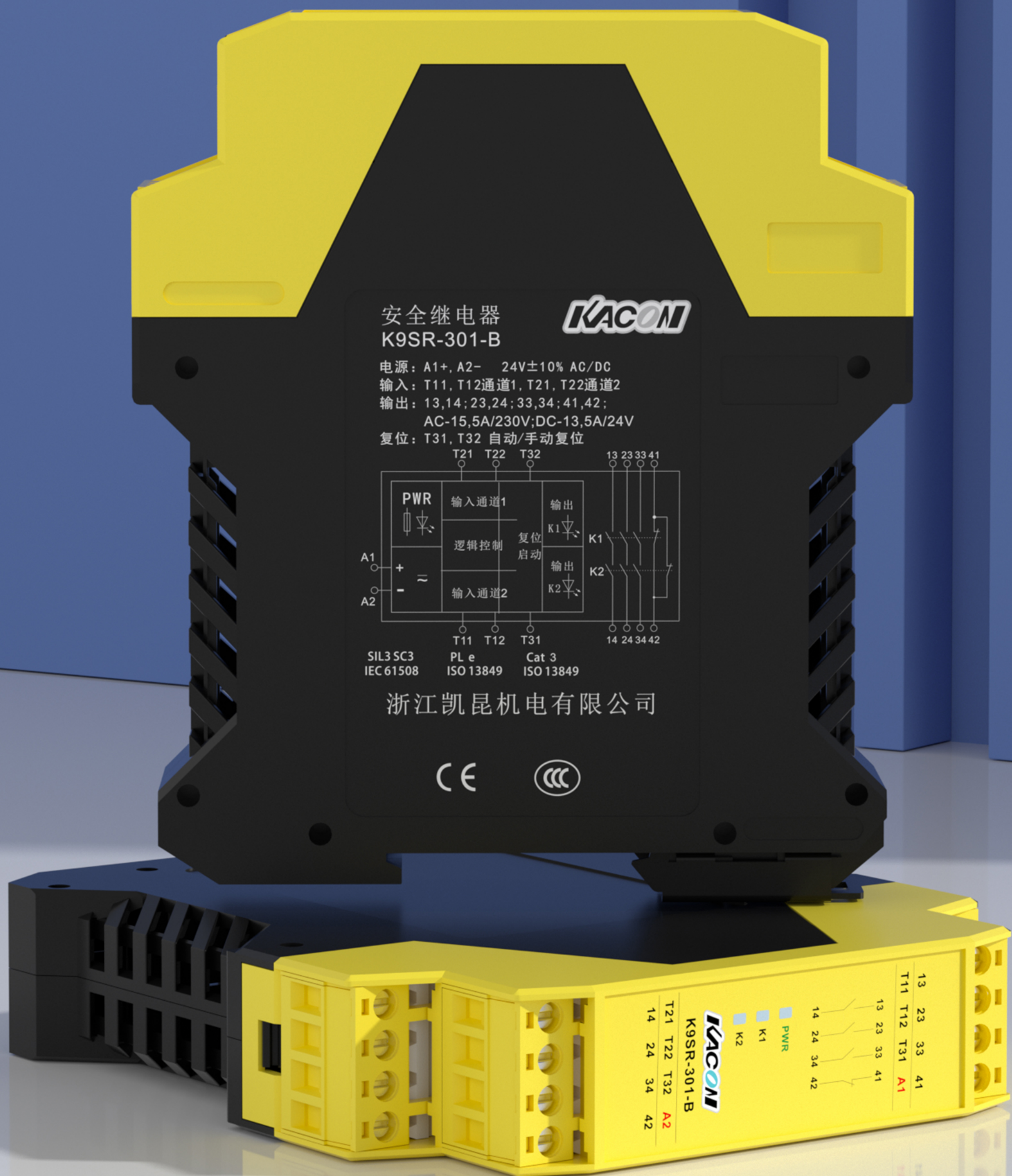




KACON SAFETY RELAY MODULE KEEPING YOUR ELECTRICITY SAFE AT ALL TIMES

SAFETY RELAYS



K9SR

Safety Relays

K9SR Series

Model Name

K9SR-①②③④

①	Safety Output Contacts
1	1 C output contacts
2	2 C output contacts
3	3 C output contacts

③	Auxiliary Contacts
0	No auxiliary contacts
1	1 N/C
2	2 N/C

②	Delayed Output
0	No available
1	Have

④	Input Type
A	Manual/automatic, emergency stop switches, safety door switch
B	Manual/automatic, emergency stop switches, safety door switch, safety light curtains

Product Characteristics

- Safety Sensors:
 - Emergency stop push button switch
 - Safety door switch
 - Safety light curtains
 - SIS system DO output
- Forced Guide Relay Output:
 - 3NO+1NC
 - 2NO+2NC
- Indicator light:
 - Power
 - Relay output
- Security features:
 - Auto/Manual Reset
 - Maximum realization SIL 3/PLe/Cat.4
 - Single-channel/dual-channel operation



Safety Relays

K9SR Series

Technical Parameters

Input	
Supply voltage	AC/DC24V±10% AC24V(50Hz~60Hz)
Input current	< 60mA
Input type	Safety door switch, emergency stop switch, safety light curtains

Assembly	
Terminal	Pluggable terminal block
Terminal confining torque	0.5N.m
Installation	35mm DIN rail

Output	
Rated load (resistive)	AC250V 5A DC30V 5A
Number of output contacts	3NO+1NC(3A1B)
Switching capacity	Comply with EN60947-5-1:AC-15,5A/230V:DC-13 5A/24V

Safety	
Safety integrity level	SIL3
Performance level	PLe
Security Category	Cat.4

Dielectric and lifespan	
Insulation voltage	AC250V
Impulse voltage	4000V
Machanical lifespan:	Above 5 million times
Electrical lifespan	Above 0.1 million times
Vibration resistance	Above 5 million times

Operating Environment	
Ambient temperature	-20°C~+55°C
Ambient humidity	35~85%RH
IP rating	IP20
Contamination level	2

Type

Part number	Main contact	Auxiliary contacts	Number of input channels	Delay mode	Reset mode	Input type	Current voltage
K9SR-201-A	2PST-NO	2PST-NC	Chanel 2 input	No delay mode	Auto/Manual	A	AC/DC24V
K9SR-201-B			Chanel 1 or chanel 2	No delay mode	Auto/Manual	B	AC/DC24V
K9SR-211-A	2PST-NO	2PST-NC	Chanel 2 input	Delay model	Auto/Manual	A	AC/DC24V
K9SR-211-B			Chanel 1 or chanel 2	Delay model	Auto/Manual	B	AC/DC24V
K9SR-301-A	3PST-NO	1PST-NC	Chanel 2 input	No delay mode	Auto/Manual	A	AC/DC24V
K9SR-301-B			Chanel 1 or chanel 2	No delay mode	Auto/Manual	B	AC/DC24V
K9SR-311-A	3PST-NO	1PST-NC	Chanel 2 input	Delay model	Auto/Manual	A	AC/DC24V
K9SR-311-B			Chanel 1 or chanel 2	Delay model	Auto/Manual	B	AC/DC24V

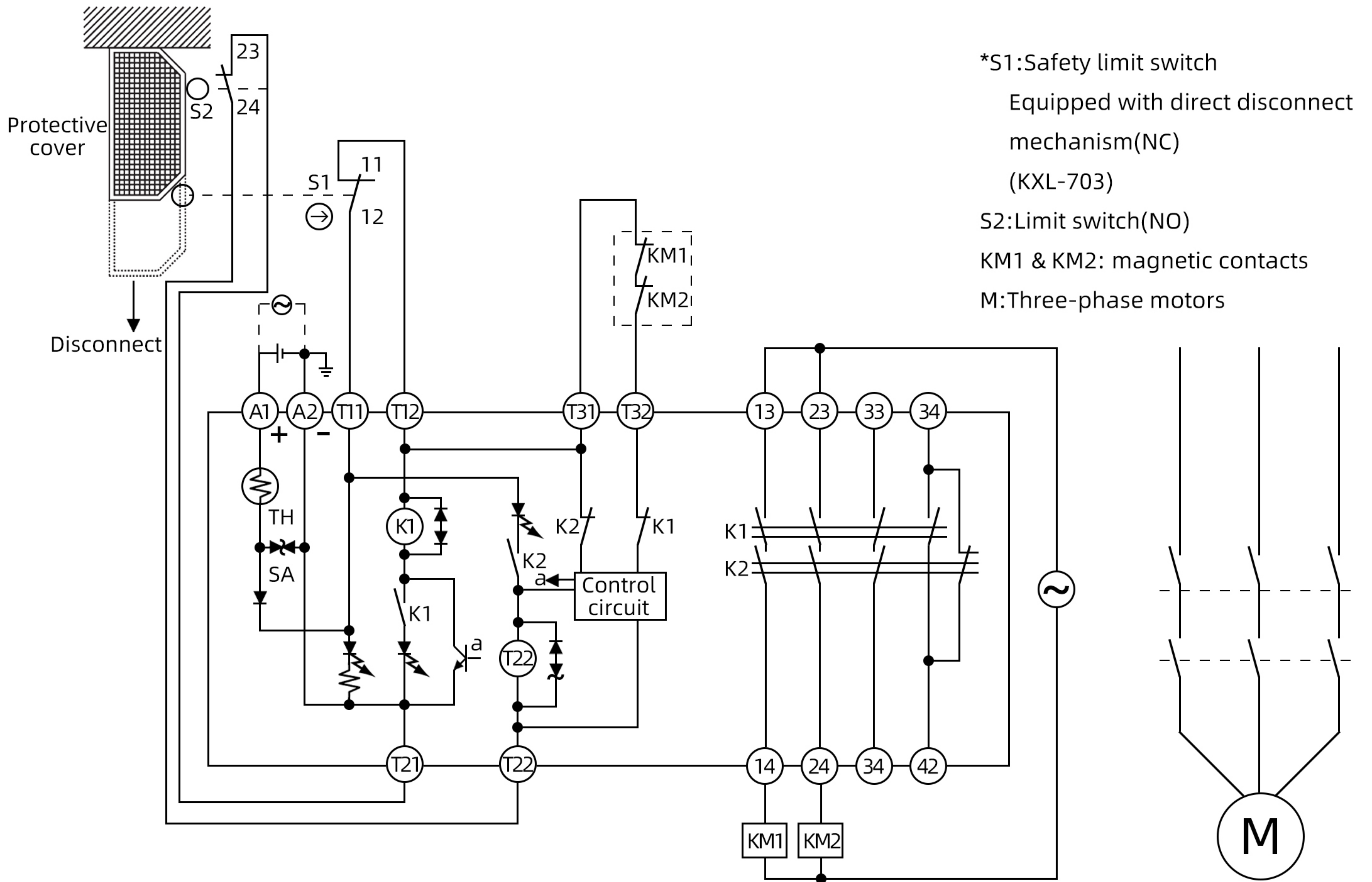
*A-Manual/automatic, emergency stop switches, limit switches.

*B-Manual/automatic, emergency stop switches, limit switches, safety light curtains.

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Wiring Diagram



*When S1 and S2 detect that the guard is disconnected, the power supply to motor M will be turned off.

*The power to motor M will remain off until the guard is closed.

A1	DC power: A1 connect to +24V; AC power: no "+" or "-" polarity	23、24	NO outputs
A2	DC power: A2 connect to 0V; AC power: no "+" or "-" polarity	33、34	NO outputs
T11、T12	Safe Input Channel 1	41、42	NC outputs
T21、T22	Safe input channel 2	Green PWR	Power indicator
T31、T32	Reset inputs (startup to input)	Orange K1	Internal relay K1
13、14	NO outputs	Orange K2	Internal relay K2

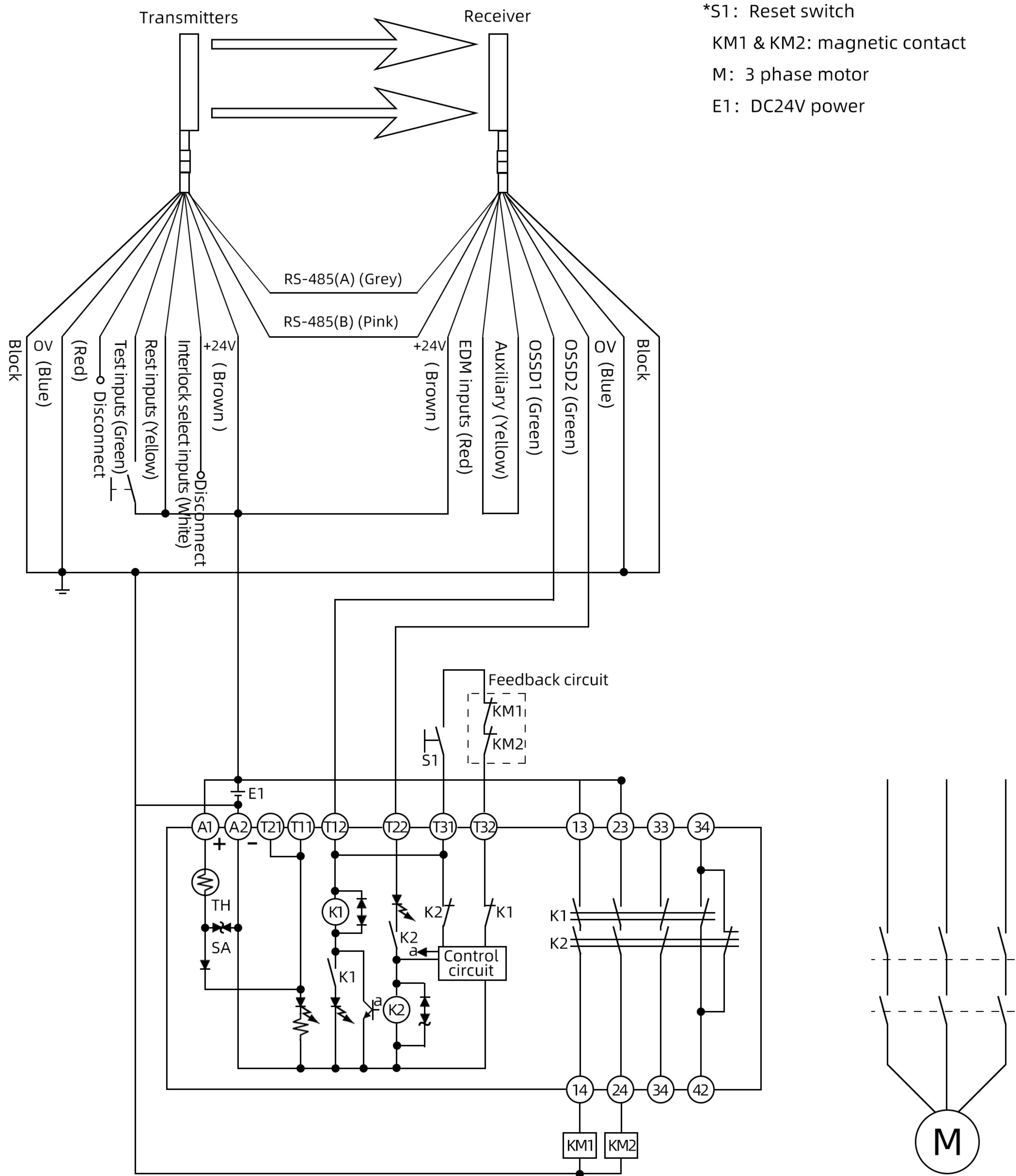
*Model K9SR-2 □2-□ safety output contacts 13-14, 23-24, auxiliary contacts 31-32, 41-42.

*When the model number is K9SR-□□□□-B, if only one channel is used, it is necessary to short T12 T22, and other models cannot be short circuit connected.

Safety Relays

K9SR Series

Safety Light Curtains

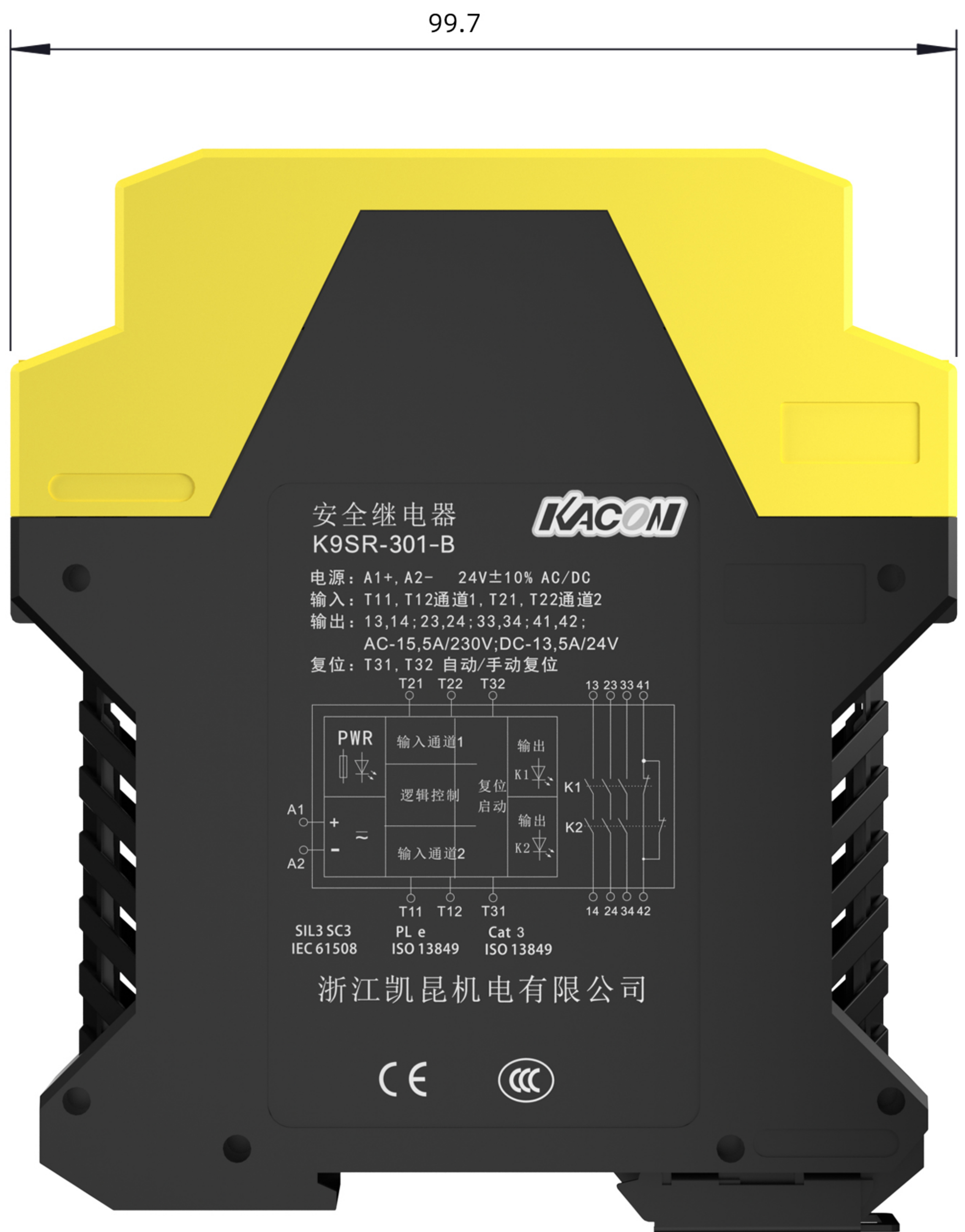


*S1: Reset switch
 KM1 & KM2: magnetic contact
 M: 3 phase motor
 E1: DC24V power

Safety Relays

K9SR Series

Dimensions



Unit: mm