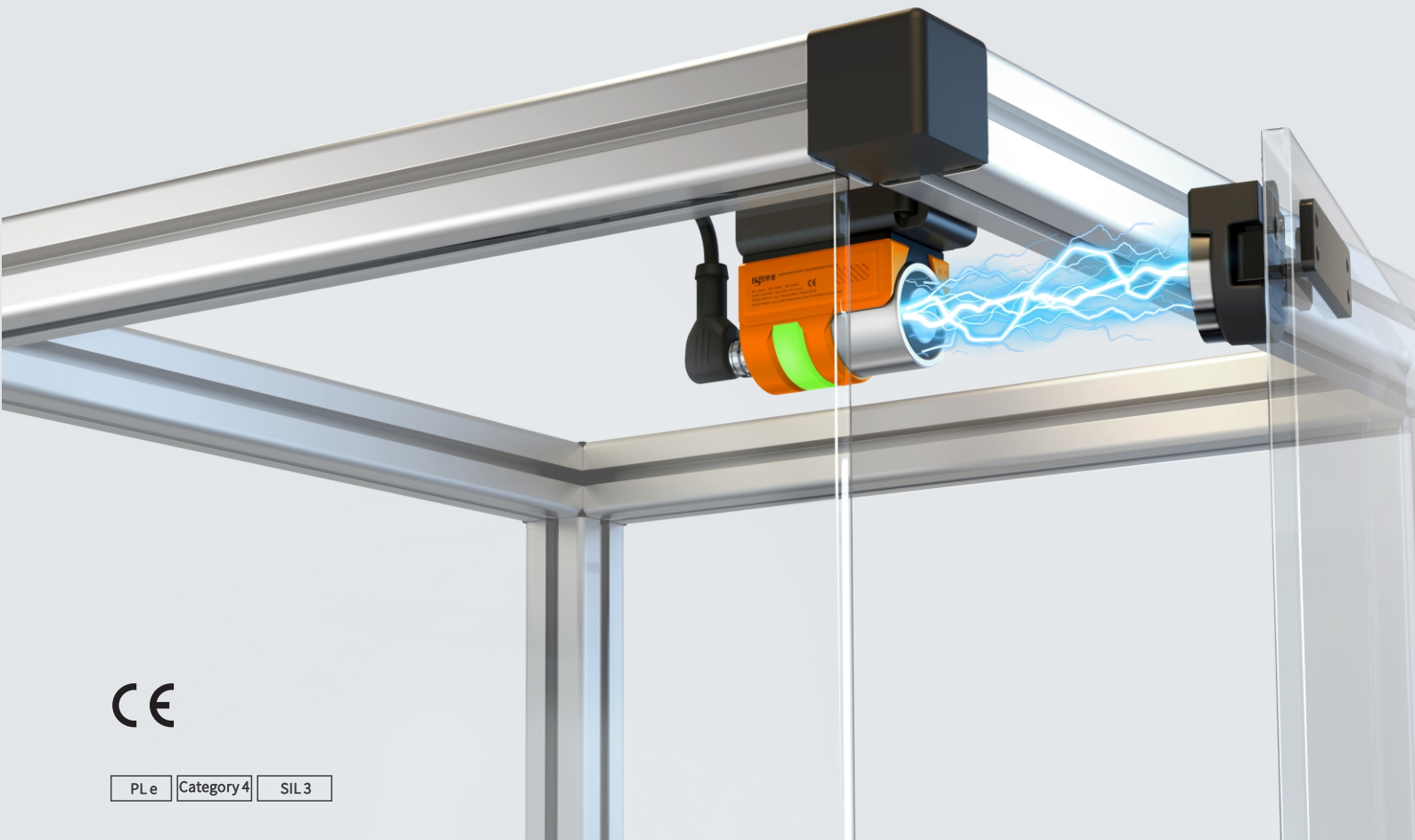




Product introduction

SLE21 series is an electromagnetic locking safety interlock switch, the misalignment constructure and strong holding force ensure an optimized solution for movable guarding doors. The switch with advantage of electromagnetic and miniature size support new solution for small equipment with smaller inertia. Non-contact feature is available in high cleanliness and dust-free workshop like semiconductor, automobile manufacturing, beverage & food production etc.

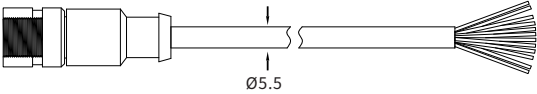
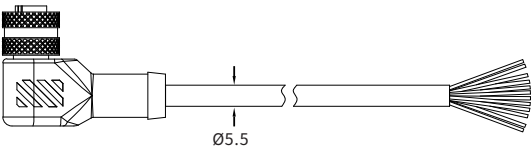
Product feature

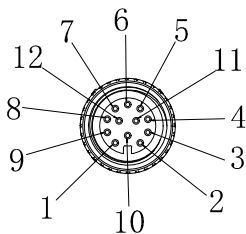
- 500N electromagnetic force lock.
- Adopt "Electromagnetic" locking and keyless constructure.
- Easy to integrate (max. 20sets).
- Permanent magnet built-in actuator .
- Small size, easy to install.
- Full perspective indicator light.
- Non-contact without powder.
- IP65 / IP67 protection level.

Cable

Series		Pin of connector	Cable	Length
SLE21	-	P		
				
		12:12 Pin	S: terminated cable with straight connector L: terminated cable with L shape connector	1: 1m 3: 3m 5: 5m 10: 10m 20: 20m

Cable option

Standard cable	Connector type	Length	Model
	Straight connector	1m	SLE21-P12S1
		3m	SLE21-P12S3
		5m	SLE21-P12S5
		10m	SLE21-P12S10
		20m	SLE21-P12S20
	L type connector	1m	SLE21-P12L1
		3m	SLE21-P12L3
		5m	SLE21-P12L5
		10m	SLE21-P12L10
		20m	SLE21-P12L20



Wire sequence of M12 waterproof connector

M12-12 PIN wire:

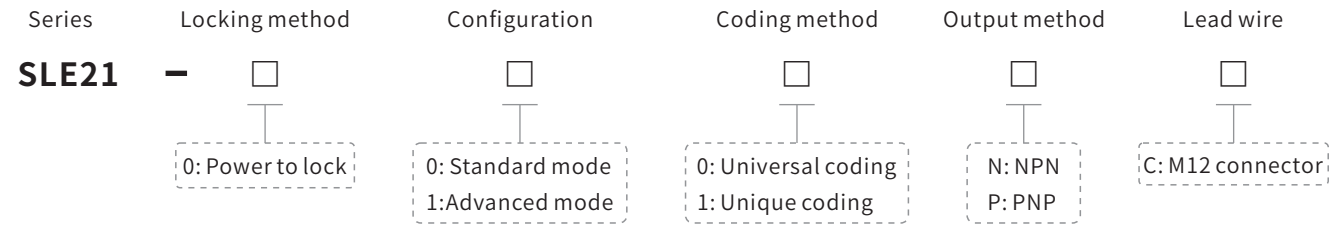
1. Brown-positive of power
2. Blue - negative of power
3. Grey - AUX output 1
4. Black - OSSD 1
5. White - OSSD 2
6. Green – safety input 1
7. Yellow – safety input 2
8. Red – lock control 1
9. Light green – EDM
10. Pink – EDM selection
11. Orange – AUX output 2
12. Purple – OSSD switch

Product parameter

Type		Hinged door	
		Miniature size	
		M12 connector	
		Standard mode	Advanced mode
Working distance	Sao(Off-On)	4mm	
	Sar(On-Off)	4mm	
Response time	Lock→release	200ms	
	Release→lock	200ms	
	Detect→non-detect	20ms+2ms* (cascading amount-1)	
	Non-detect →detect	300ms+25ms* (cascading amount-1)	
Control output	Output method	Transistor output*2	
	Max. load current	150mA	
	Residual voltage (during ON)	2.5V max. (5m cable) 3.5V (31m cable)	
	OFF stage voltage	2.0V max. (5m cable) 3V (31m cable)	
	Leakage current	0.5mA max.	
	Max. capacitive load	4uF	
	Load wiring resistance	2.5Ω max.	
AUX output (Not safety output)	Output	Transistor	
	Max. load current	50mA	
	Residual voltage (when ON)	2.5V max. (5m cable) 3.5V (31m cable)	
External input (Short circuit current)	Safety input	Approx. 1.5mA x 2	
	Lock control input (OSSD switching input)	Approx. 5mA	
	Reset/ EDM input	Approx. 5mA (only for advanced function)	
	EDM option input	Approx. 2.5mA (only for advanced function)	
Power	Power supply	24VDC±10% (ripple P-P 10% Class 2)	
	Power consumption	<5W	
Circuit protection		Reverse current protection, short-circuit protection and surge protection for each output	
Environmental resistance	Enclosure rating	IP67	
	Ambient temperature	-10℃~+55℃ (No freezing)	
	Storage temperature	-25℃~+70℃ (No freezing)	
	Operating relative humidity	5% to 95%RH	
	Storage relative humidity	5% to 95%RH	
	Vibration resistance	10 to 55Hz, double amplitude 2.0mm, 5 minutes in each of tine X, Y, and Z direction (IEC60947-5-3)	
		Shock resistance	
Applicable standards (safety)		30G in X, Y, Z directions 6 times each axis (IEC60947-5-3)	
		EN ISO13849-1:2015 (PL e, Category 4) , IEC60947-5-3, EN60947-5-3	

SLE21 Safety Interlock Switch

Model explanation (e.g.: SLE21-□□□□□)

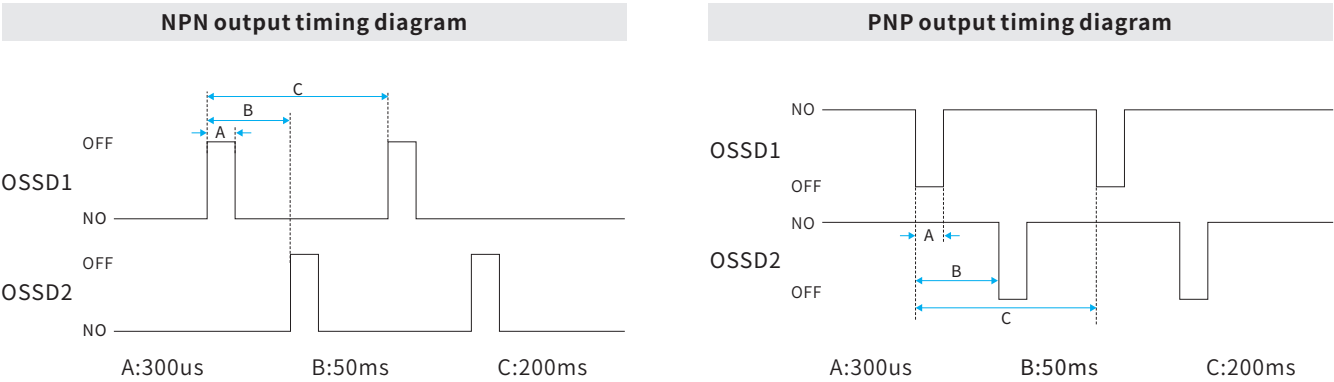


Description for standard & advanced mode							
	Safety output	AUX output	Safety input	Lock input	OSSD action switch	EDM/ reset	EDM opion
Standard	●	●	●	●	●	—	—
Advanced	●	●	●	●	●	●	●

SLE21 selection sheet

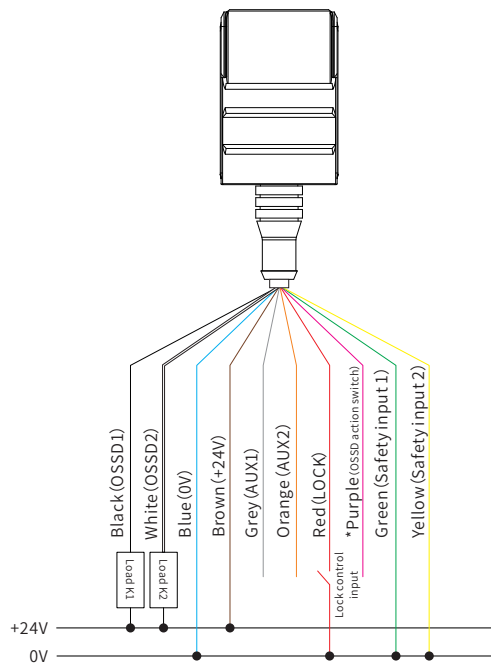
Locking method	Configuration	Output method	Coding method	Model
Power to lock	Standard	NPN	Universal coding	SLE21-000NC
		NPN	Unique coding	SLE21-001NC
		PNP	Universal coding	SLE21-000PC
		PNP	Unique coding	SLE21-001PC
	Advanced	NPN	Universal coding	SLE21-010NC
		NPN	Unique coding	SLE21-011NC
		PNP	Universal coding	SLE21-010PC
		PNP	Unique coding	SLE21-011PC

Timing diagram



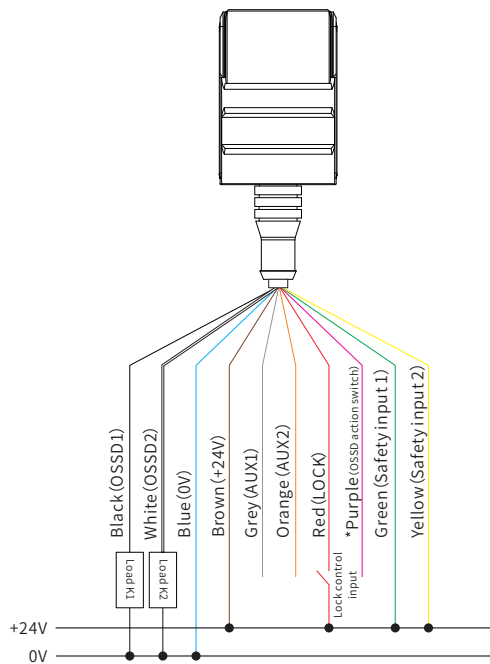
Wire diagram

SLE21 standard mode (NPN, no cascade)



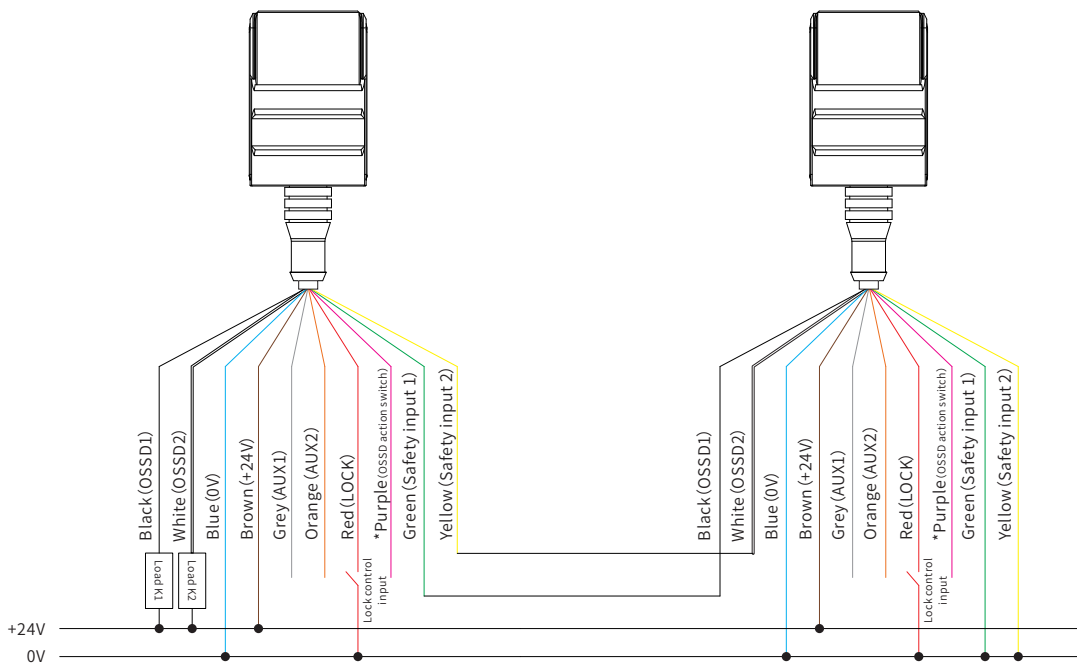
*Open/close link, purple is connected with 0V; Lock link, purple disconnected

SLE21 standard mode (PNP, no cascade)



*Open/close link, purple is connected with +24V; Lock link, purple disconnected

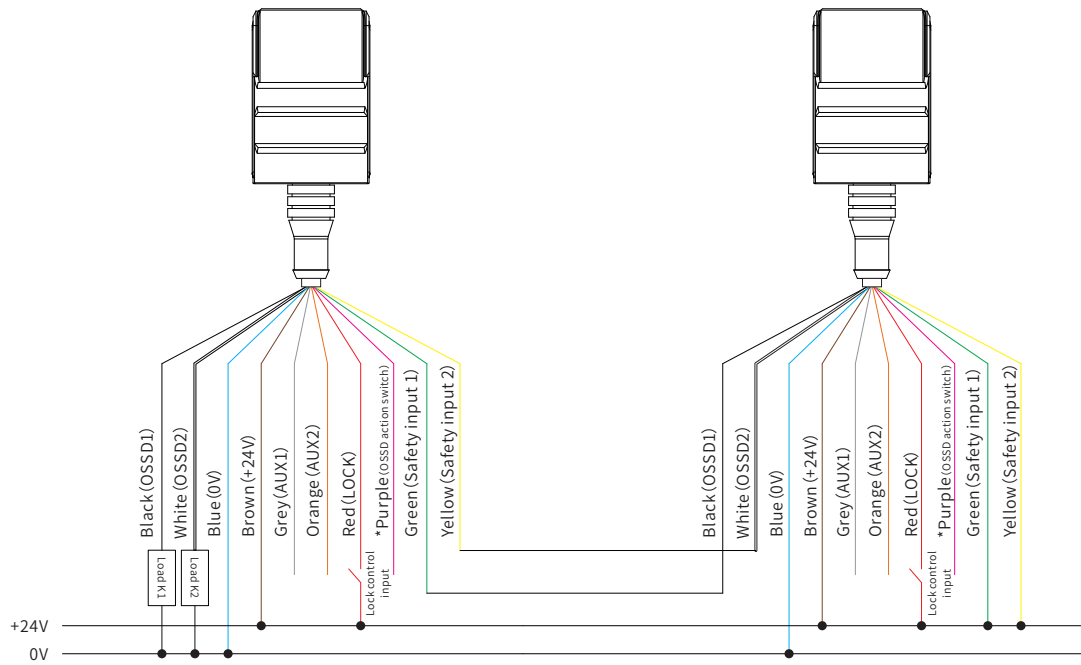
SLE21 standard mode (NPN, cascade)



*Open/close link, purple is connected with 0V; Lock link, purple disconnected

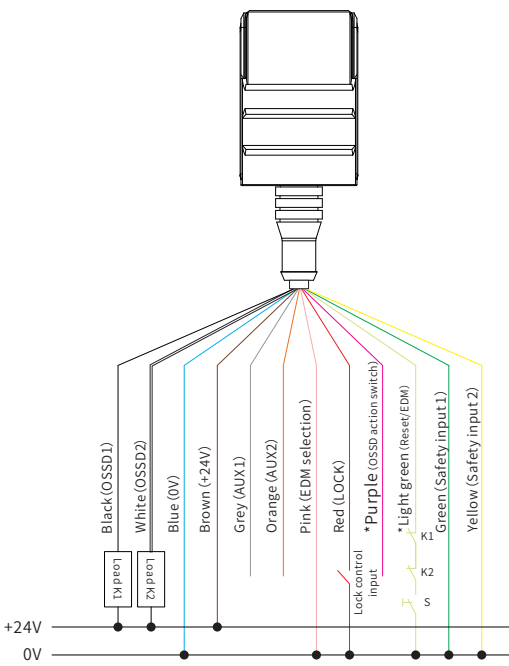
SLE21 Safety Interlock Switch

SLE21 standard mode (PNP, cascade)



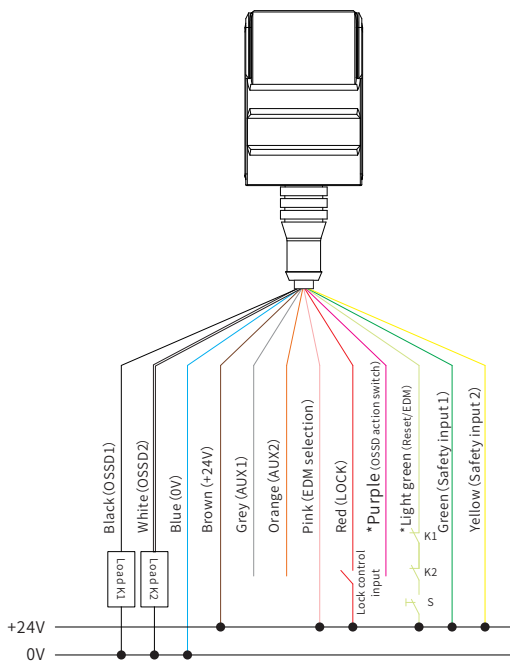
*Open/close link, purple is connected with +24V; Lock link, purple disconnected

SLE21 advanced mode (NPN, no cascade)



*Open/close link, purple is connected with 0V; Lock link, purple disconnected
*1. Use EDM and reset: wiring as picture
2. Do not use EDM reset: select EDM (pink wire), reset /EDM (light green wire) connect to +24V;
3. Only use EDM: EDM function (pink wire) selection input should be open and insulated.
K1, K2: external equipment (force guided relays, electromagnetic contactors, etc.)
S: Reset switch

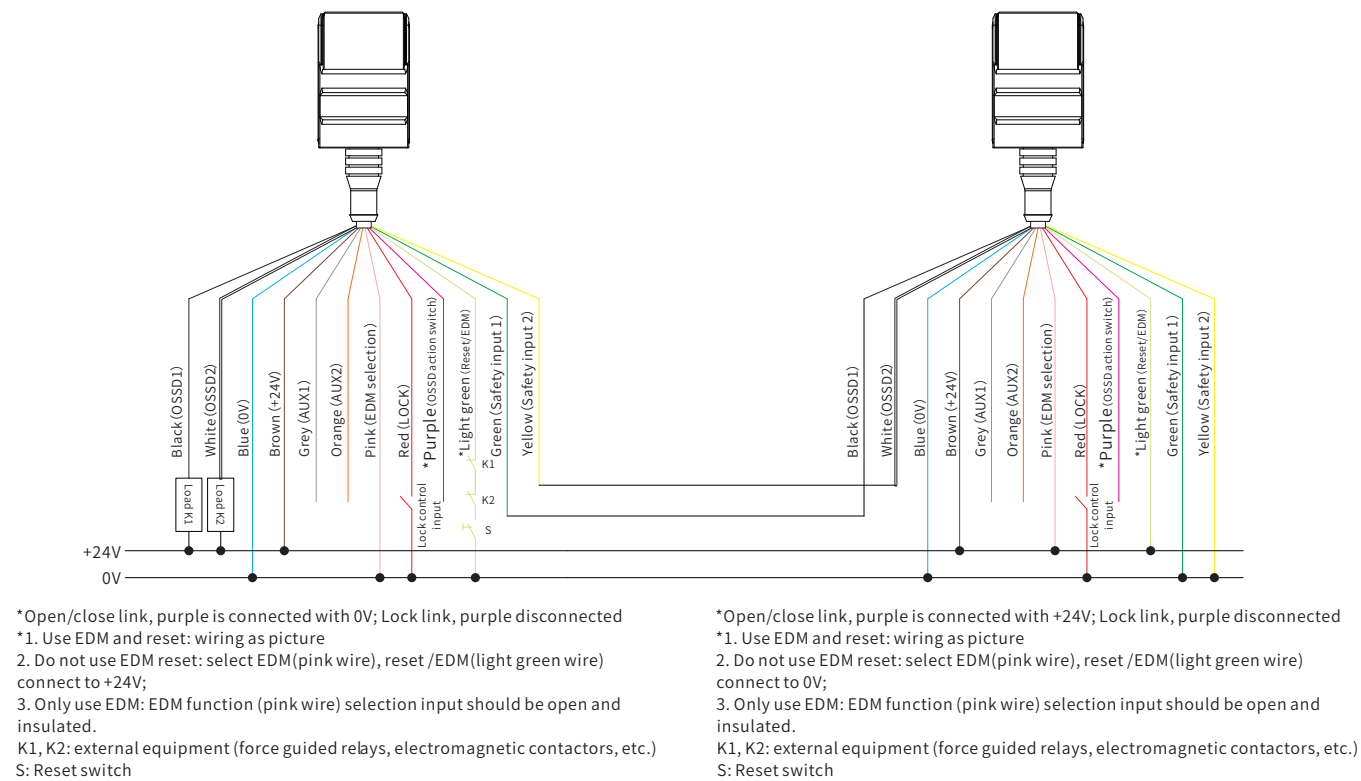
SLE21 advanced mode (PNP, no cascade)



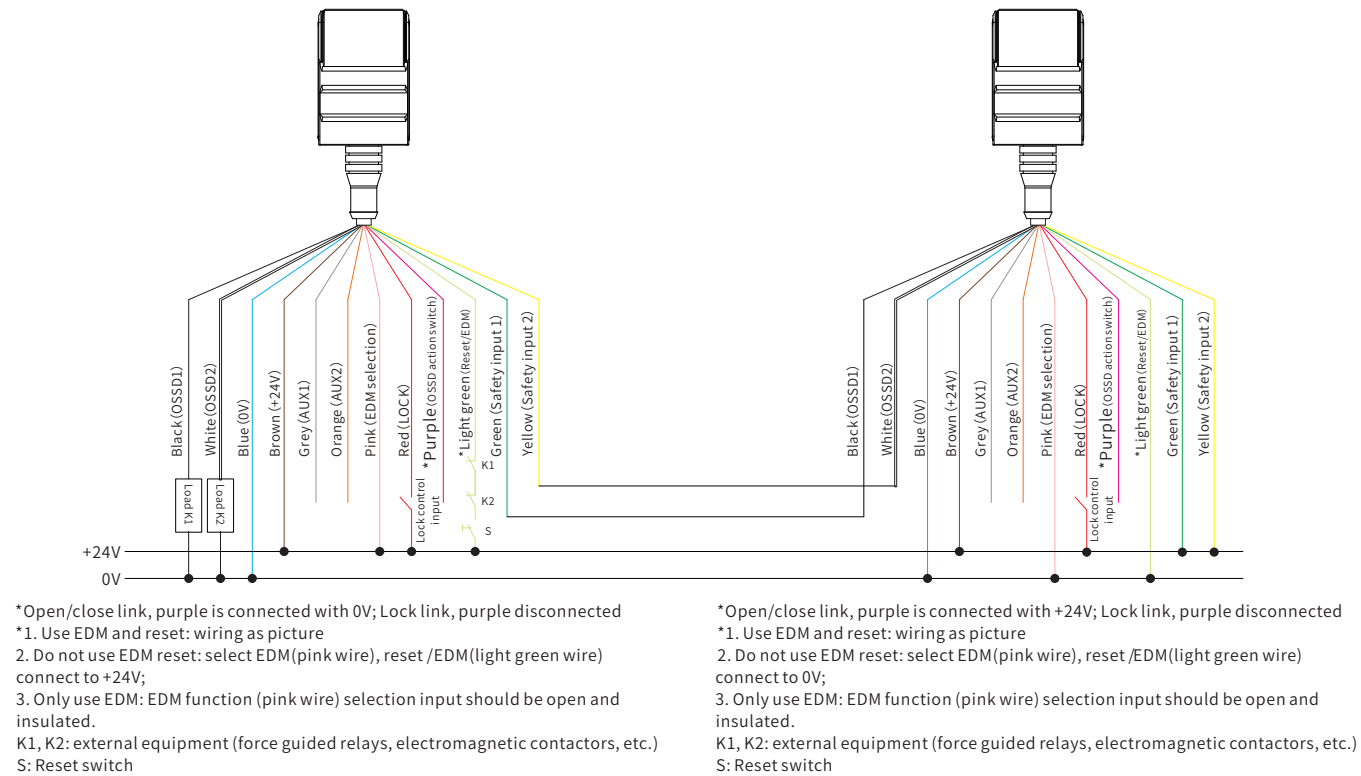
*Open/close link, purple is connected with +24V; Lock link, purple disconnected
*1. Use EDM and reset: wiring as picture
2. Do not use EDM reset: select EDM (pink wire), reset /EDM (light green wire) connect to 0V;
3. Only use EDM: EDM function (pink wire) selection input should be open and insulated.
K1, K2: external equipment (force guided relays, electromagnetic contactors, etc.)
S: Reset switch

Wire diagram

SLE21 advanced mode (NPN, cascade)

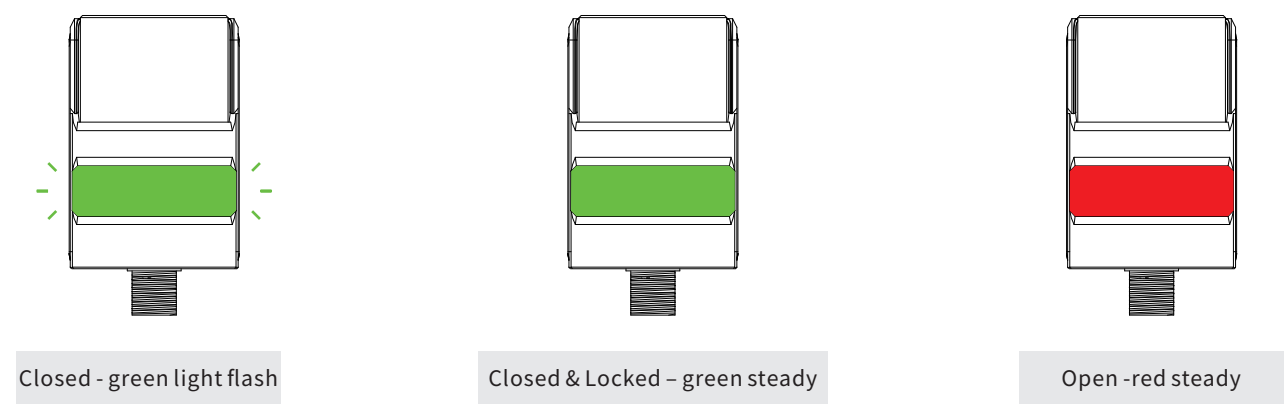


SLE21 advanced mode (PNP, cascade)



SLE21 Safety Interlock Switch

LED Indicator



Lock linked (OSSD switch)

LED indicator	Status			
	OSSD	Safety input	LOCK	Actuator
Green	ON	ON	ON	Presence
Red	OFF	ON/OFF	ON/OFF	Absence
Green blink	OFF	ON	OFF	Presence
Orange	OFF	OFF	ON	Presence
Orange blink	OFF	OFF	OFF	Presence
Orange flash	OFF	EDM false		
Red blink	OFF	System false		
Alternating in red, green and orange	OFF	Code uniquely and confirmed, waiting for restart		
Alternating in red and green	OFF	Code uniquely but not confirmed		
OFF	OFF	Power OFF		

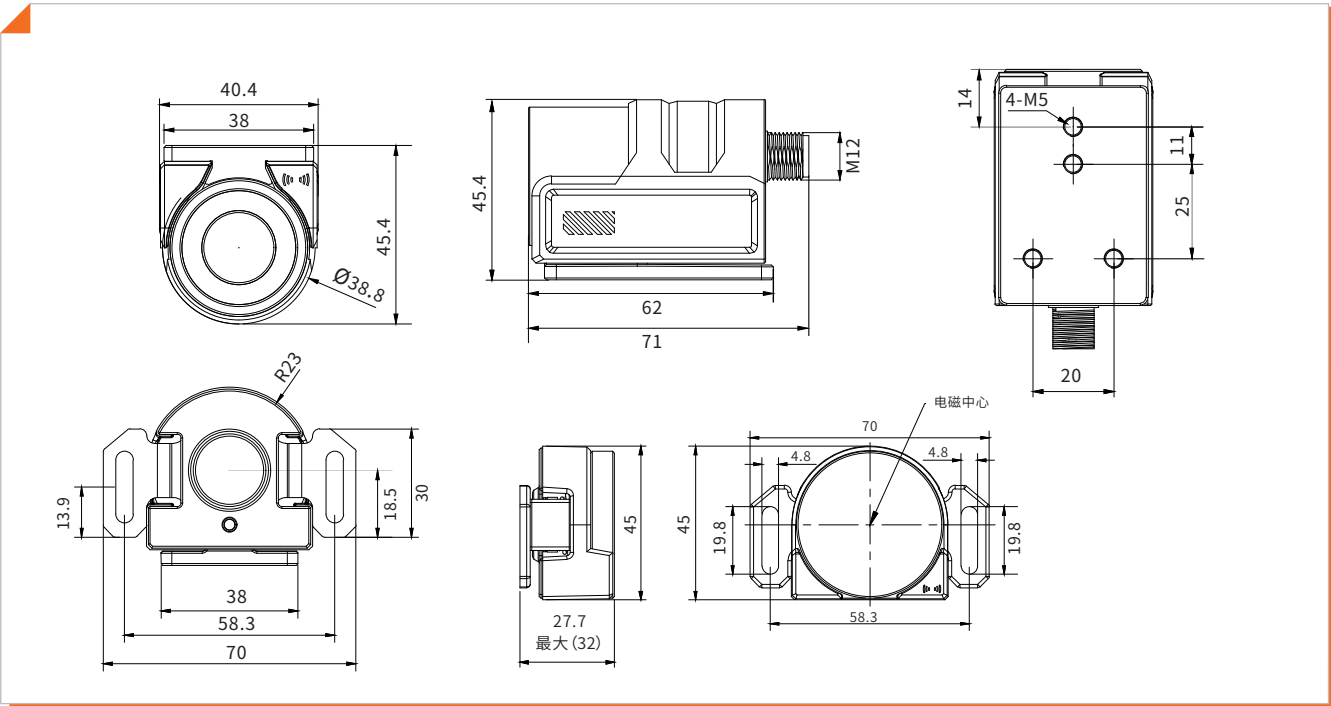
If set in manual reset, the indicator turns to orange light until reset/EDM operated.

Open/close link (OSSD switch)

Indicator LED	Status			
	OSSD	Safety input	LOCK	Actuator
Green	ON	ON	ON	Presence
Red	OFF	ON/OFF	ON/OFF	Absence
Orange	OFF	OFF	ON/OFF	Presence
Orange flash	OFF	EDM false		
Red flash	OFF	System false		
Alternating in red, green and orange	OFF	Code uniquely and confirmed, waiting for restart		
Alternating in red and green.	OFF	Code uniquely but not confirmed		
OFF	OFF	Power OFF		

If set in manual reset, the indicator turns to orange light until reset/EDM operated.

Product size

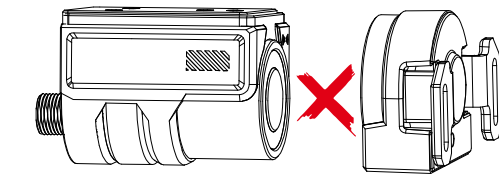


Installation

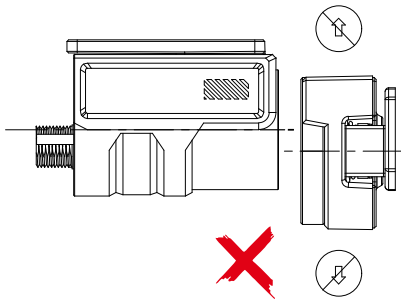


1. Correct installation, main unit and sensing surface of actuator are facing each other.

2. Wrong installation, main unit and sensing surface of actuator with 90° apart.



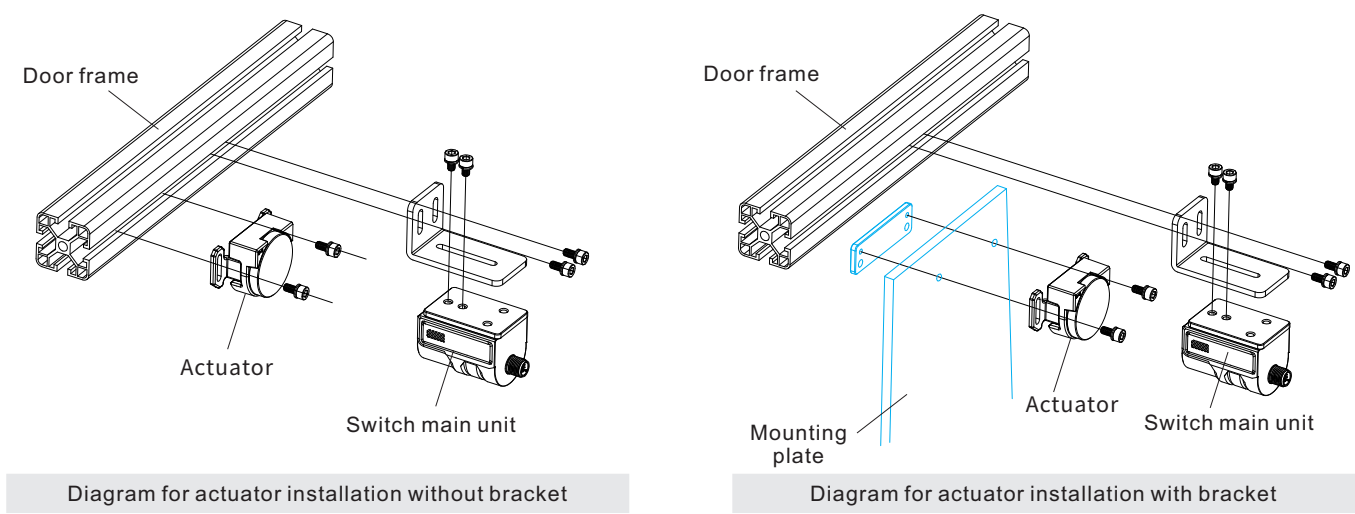
3. Wrong installation, main unit and sensing surface of actuator with 180° apart.



4. Wrong installation, main unit and sensing surface of actuator is not at the same level.

SLE21 Safety Interlock Switch

Installation mode



SLE21 Safety interlock component

Step 1	Step 2	Step 3	Step 4
Switch main unit	Actuator	Installation bracket	Cable for SLE21

Bracket

Picture	Name	Size
	SLE21-EL1	



Product introduction

Safety interlock switch is a safety device used to lock and monitor the movable mechanisms such as safety fence doors, and protective covers. The strong structural design of SLR11 series make it withstand higher tension. The RFID technology has higher security and confidentiality. Sensor & actuator support universal and unique coding. Small size for easy installation.

Product feature

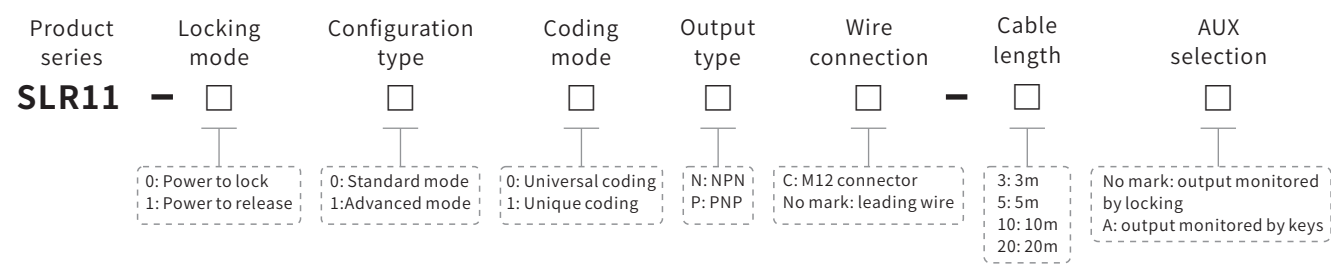
- With locking & monitoring function.
- Optional coding modes: Universal coding & unique coding.
- Self-diagnose & cross-diagnose: Periodic double cross-diagnose improves security.
- Independent redundant dual signal: In case of hazard caused by signal loop failure.
- Small size: 29.7*29.7 section size.
- Flexible installation: Directly installed on aluminum frame less than 30mm, brackets is no need.

Product parameter

Standard		ISO 13849-1 (Category 4/Pl e) ; IEC/EN60947-5-3
Certificate		CE
Locking mode		Power to lock/ power to release
Safety output		NPN*2/PNP*2
Response time	Locking→Unlocking	<100ms(Independent working)
	Unlocking → Locking	<300ms(Independent working)
Locking	Lock holding force Fzh	≥2000N
	Lock bolt insertion deviation	≤2mm
	Mechanical endurance	>1 million times (Door operating speed1m/s)
	Operating frequency	1Hz
	Minimum radius of the revolving door	≥250mm
Manual unlocking		Front. Rear
Cascade linking		Maximum 20 sets
Control output (OSSD output)	Output type	Transistor output x 2
	Maximum load current	≤200mA
	Residual voltage (When it’ s ON)	<2.5V (Cable 5m)
	Voltage when it’ s OFF	≤2V (Cable 5m)
	Leakage current	≤0.5mA
	Maximum load capacity	4uF
	Load connection resistance	≤2.5Ω
AUX output (unsafe output)	Output type	Transistor output
	Maximum load capacity	1
	Machanical endurance	50mA
	Residual voltage (when it’ s ON)	≤2.5V@50mA
External input (breaking current)	Safety input	5mA*2
	Reset/EDM input	About 10mA*1
	Locking control input	About 10mA*1
Power supply	Working voltage	DC24V±15%
	Rated power	<5W (No load)
Protection		Safety circuit protection, current limit, overload protection,overvoltage protection, reverse polarity protection
Environment	Housing protection level	IP65
	Operating ambient temperature	-20℃~+55℃ (No freezing)
	Storage temperature	-25℃~+70℃ (No freezing)
	Operating ambient humidity	5%~95%RH
	Ambient storage humidity	5%~95%RH
	Vibration resistance	10Hz-55Hz, double amplitude 2.0mm, 5 minutes each in X, Y and Z directions
Shock resistance		30g 6times each in X, Y and Z direction (IEC60947-5-3)
Restart time		3.5s
Material		Nylon/ Zinc alloy/ Stainless steel

SLR11 Series Safety Interlock Switch

Model selection (eg.: SLR11-□□□□□-□)



Function of standard mode & advanced mode						
	Safety output	AUX output	Safety input	Lock input	EDM	Reset
Standard mode	●	●	●	●	—	—
Advanced mode	●	●	●	●	●	●

AUX Output

No mark: AUX outputs turning ON/OFF linked with the lock state.

Door Status	Lock Status	OSSD Output	AUX Output
Open	Releasing	OFF	ON
Close	Releasing	OFF	ON
Close	Locking	ON	OFF

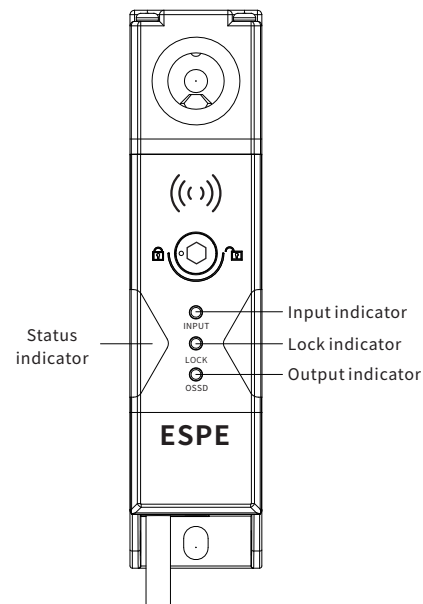
A: AUX output turn ON/OFF linked with the door opening/closing

Door Status	Lock Status	OSSD Output	AUX Output
Open	Releasing	OFF	ON
Close	Releasing	OFF	OFF
Close	Locking	ON	OFF

Model selection table

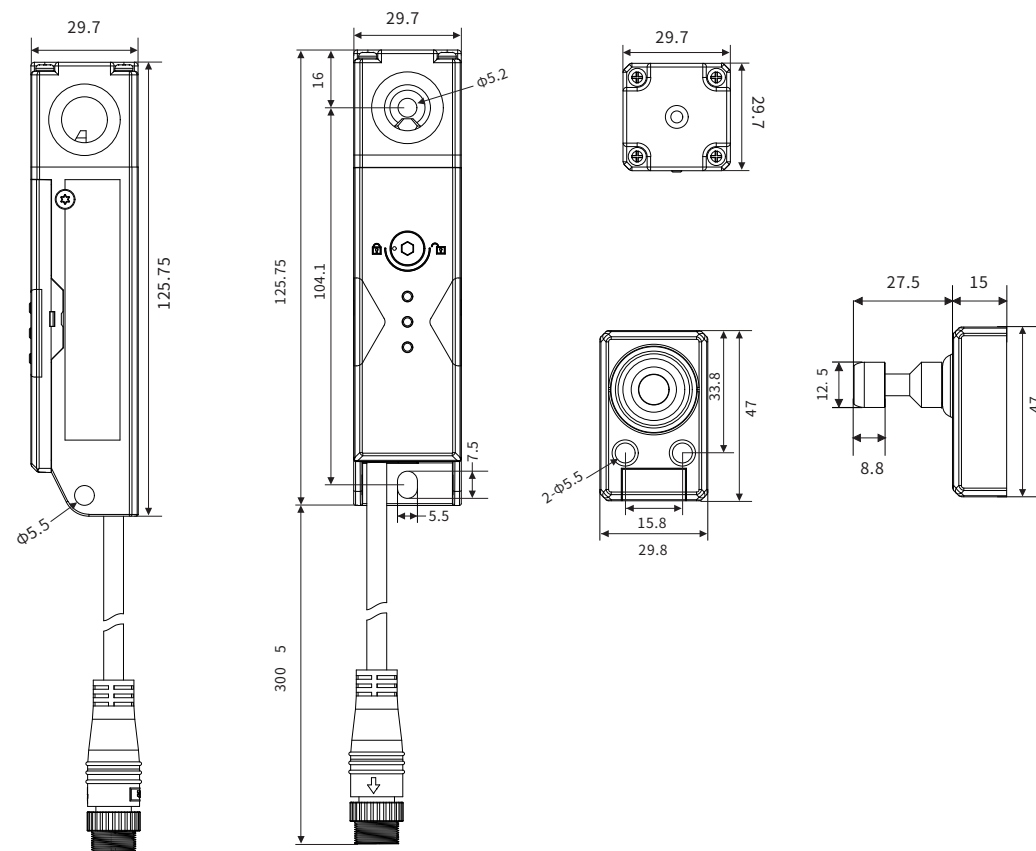
Locking mode	Configuration	Output	Coding mode	Model
Power to lock	Standard mode	NPN	Universal coding	SLR11-000N
		NPN	Unique coding	SLR11-001N
		PNP	Universal coding	SLR11-000P
	Advanced mode	PNP	Unique coding	SLR11-001P
		NPN	Universal coding	SLR11-010N
		NPN	Unique coding	SLR11-011N
Power to release	Standard mode	PNP	Universal coding	SLR11-010P
		PNP	Unique coding	SLR11-011P
		NPN	Universal coding	SLR11-100N
	Advanced mode	NPN	Unique coding	SLR11-101N
		PNP	Universal coding	SLR11-100P
		PNP	Unique coding	SLR11-101P
		NPN	Universal coding	SLR11-110N
		NPN	Unique coding	SLR11-111N
		PNP	Universal coding	SLR11-110P
		PNP	Unique coding	SLR11-111P

Indicator light



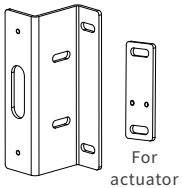
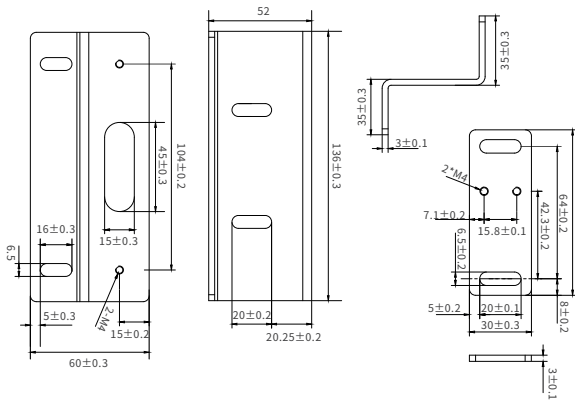
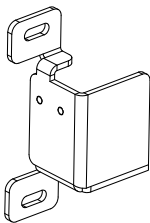
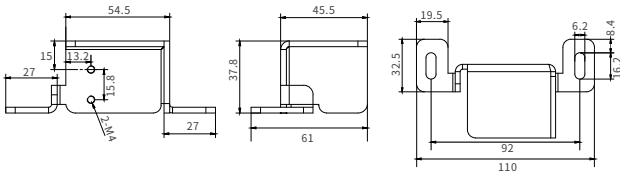
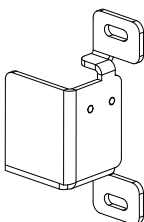
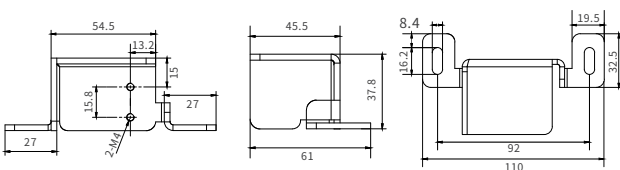
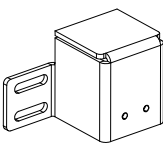
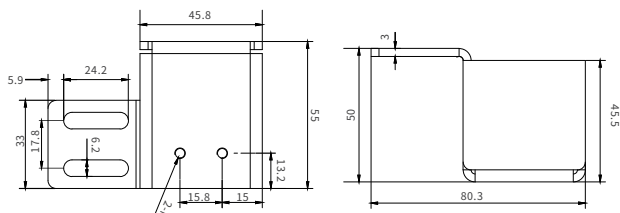
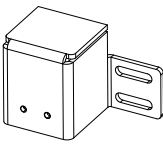
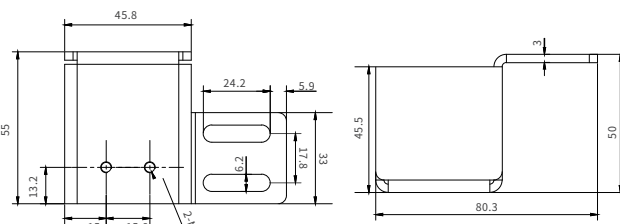
Indicator	Color	Details
Output indicator	Red, green	OSSD output: green. OSSD close: red. OSSD error: red 2Hz blink. EDM error: red 1Hz blink.
Locking indicator	Green	Locking: steady ON. Lock error: 2Hz blink. NO RFID: 1Hz blink. Attempt to lock: ON after double blinking. Attempt to: OFF after double blinking. Releasing: OFF.
Input indicator	Orange	Normal input: light on. Wait for input: OFF. Wait for reset: 1Hz blink. Safety input error: 2Hz blink.
Working status indicator	Green, red, orange	Lock and with output: Green ON. Output & system error: Red ON. Voltage error: orange 1Hz blink. Internal communication self-diagnose error: red 2Hz blink. Internal signal self-diagnose error: red 1Hz blink. Internal data calibration error: green 1Hz blink.

Product size



SLR11 Series Safety Interlock Switch

Brackets

Picture	Bracket	Model	Size
 For main unit For actuator	Inside mounting brackets	SR11-B01	
	Slide mounting bracket (left opening)	SR11-BL01	
	Slide mounting bracket (right opening)	SR11-BR01	
	Hinge mounting bracket (left opening)	SR11-BL02	
	Hinge mounting bracket (right opening)	SR11-BR02	

Installation

Direction of main unit and actuator

Correction installation



Incorrect installation direction



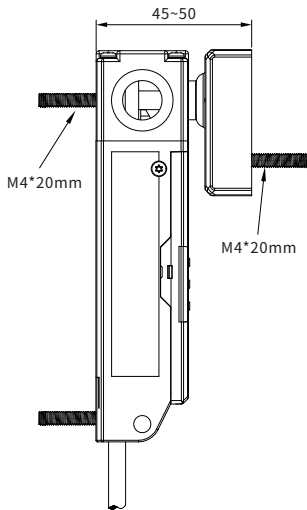
Mutual interference

When multiple SLR11 used closely, they may malfunction due to mutual interference. In order to avoid mutual interference, please install interlock as below.

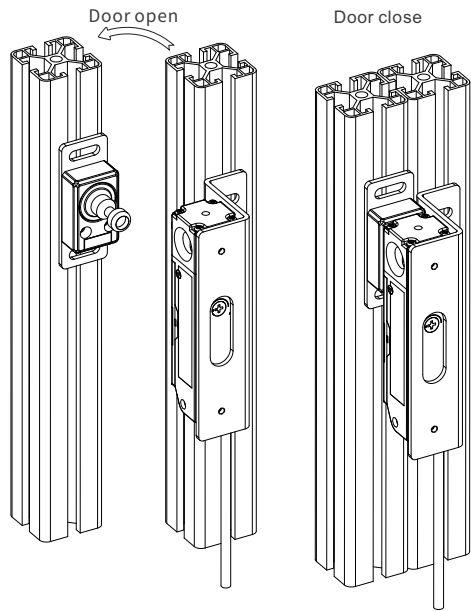


SLR11 Series Safety Interlock Switch

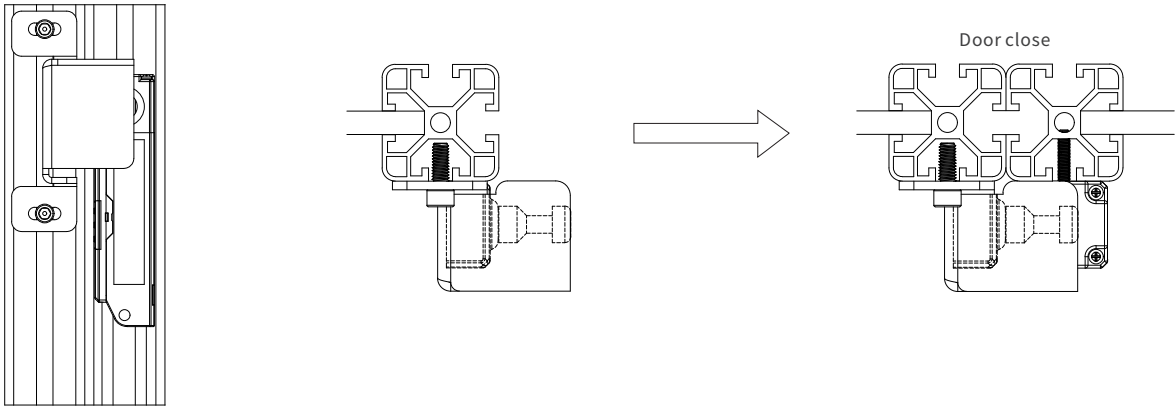
Installation without bracket



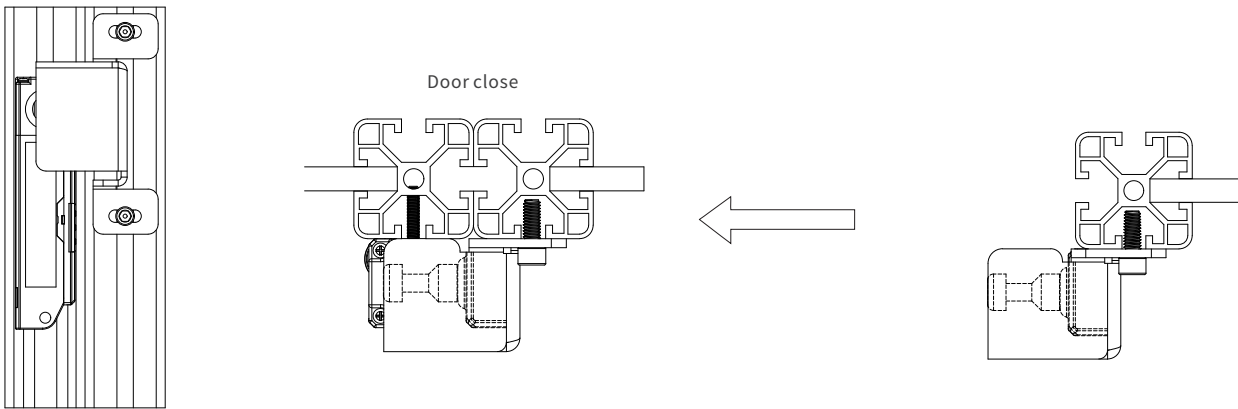
Installation with inside bracket



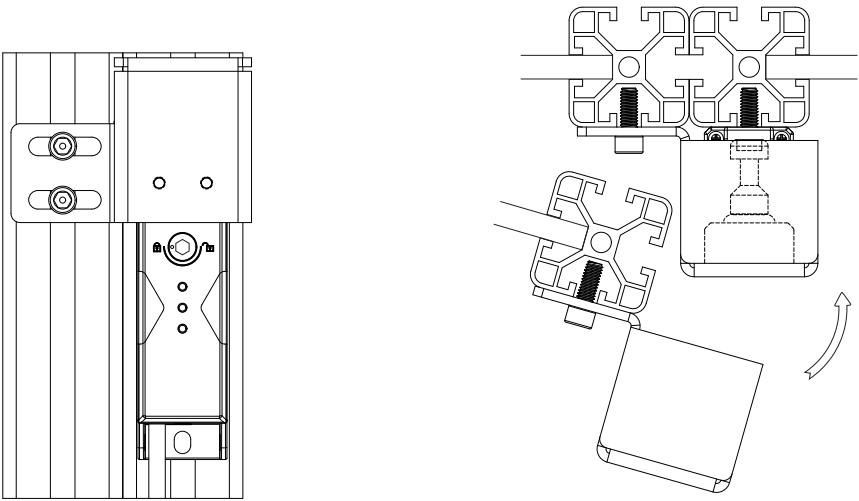
Installation with left-opening slide bracket



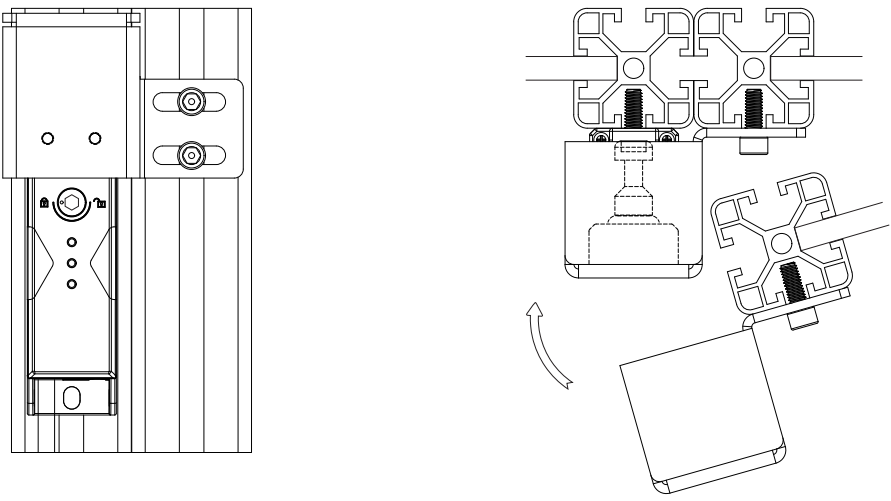
Installation with right-opening slide bracket



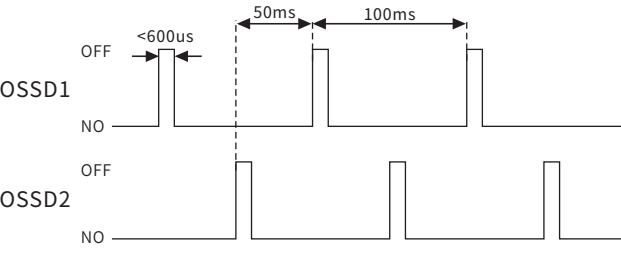
Installation with left opening hinge bracket



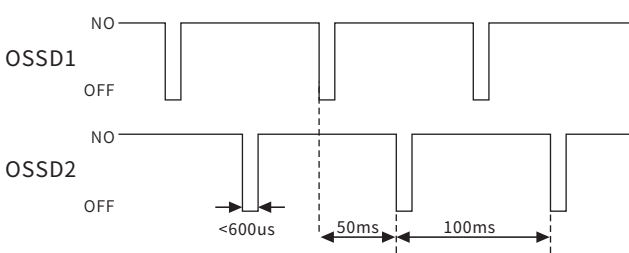
Installation with right opening hinge bracket



Timing chart



NPN timing chart

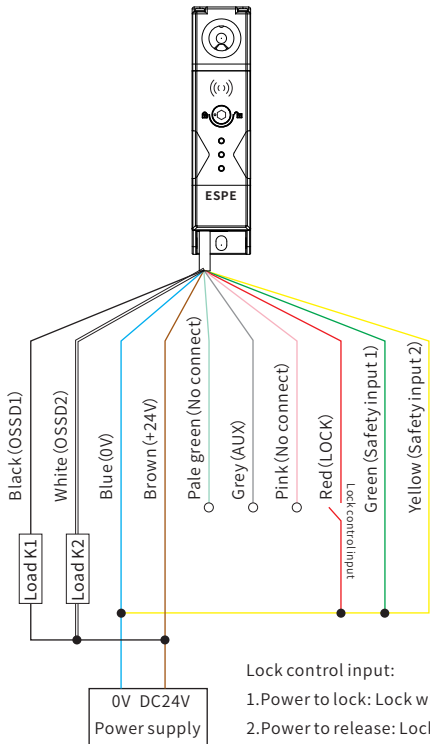


PNP timing chart

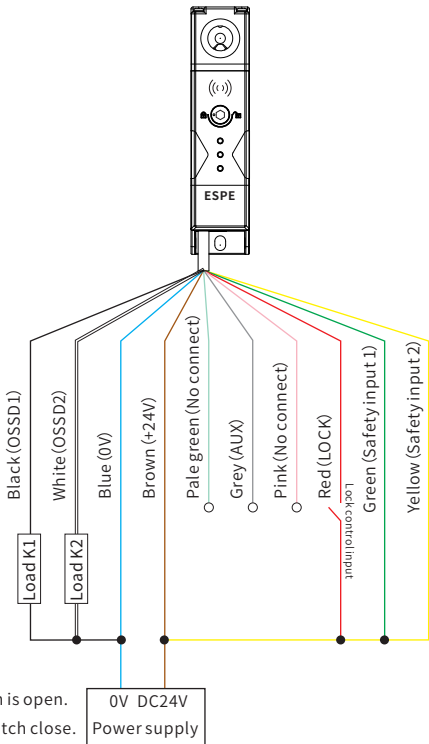
SLR11 Series Safety Interlock Switch

Wire diagram

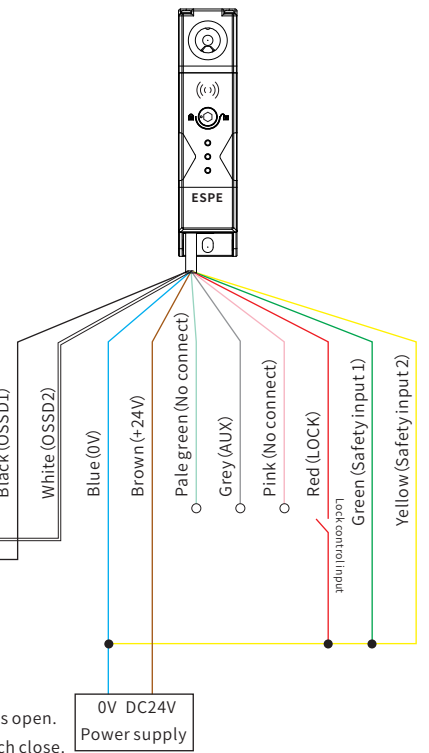
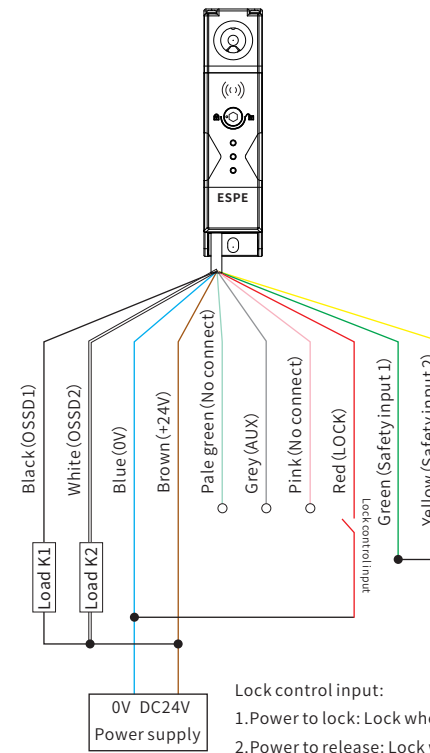
SLR11 Standard mode (NPN, No cascade)



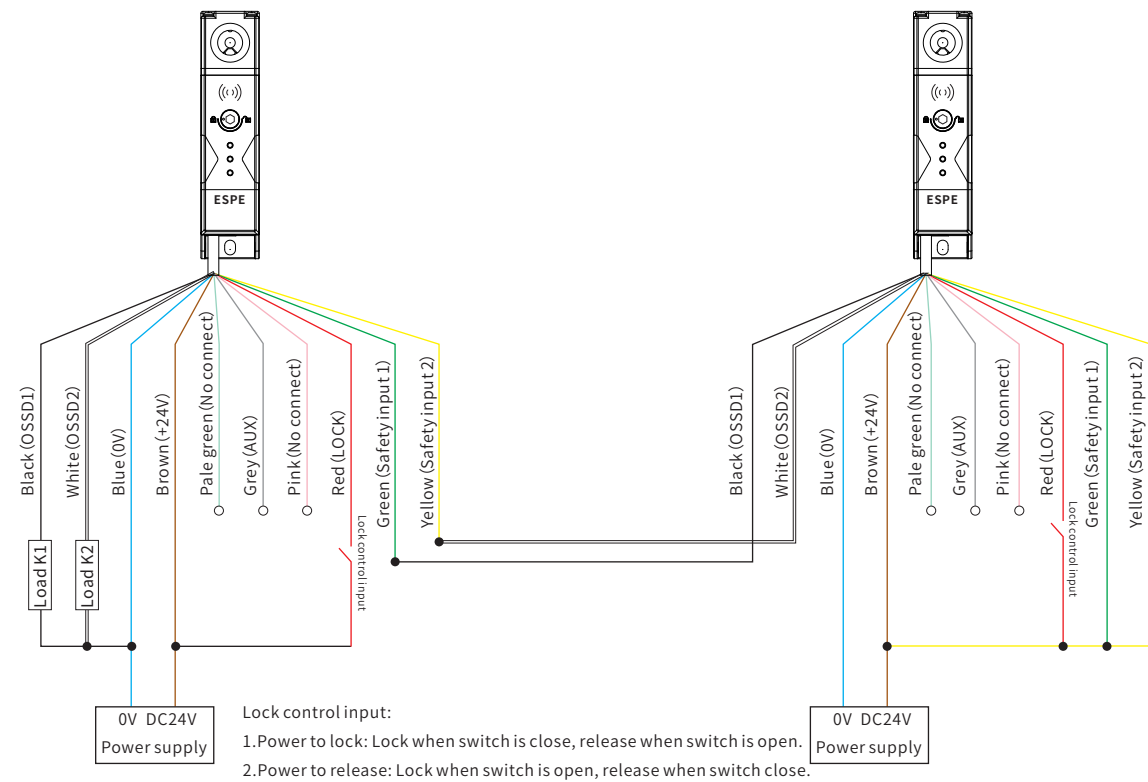
SLR11 Standard mode (PNP, No cascade)



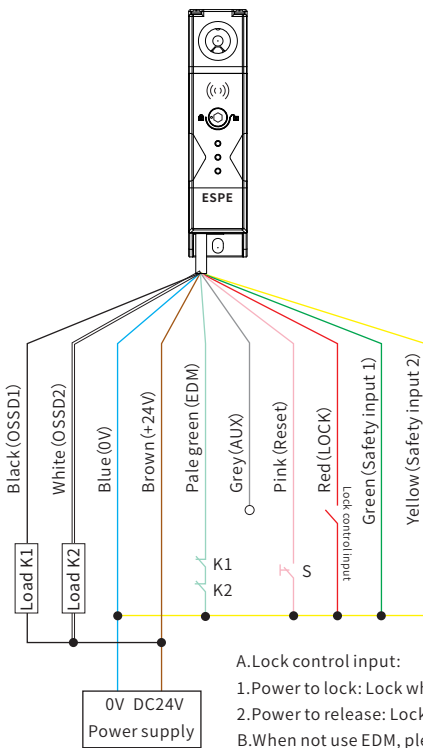
SLR11 Standard mode (NPN, cascade)



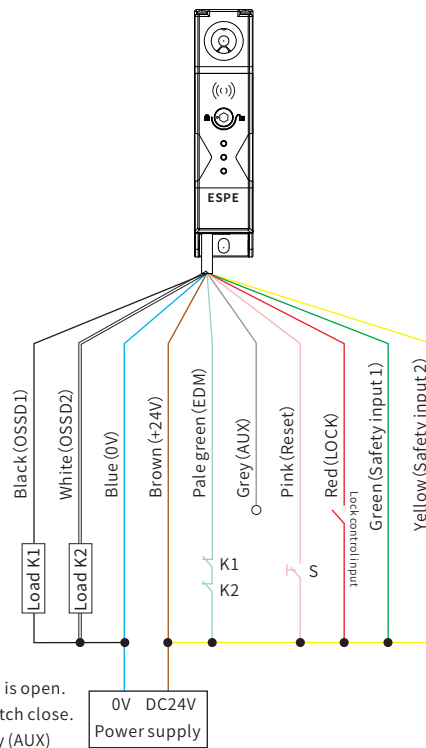
SLR11 Standard mode (PNP, cascade)



SLR11 Advanced (NPN, No cascade)



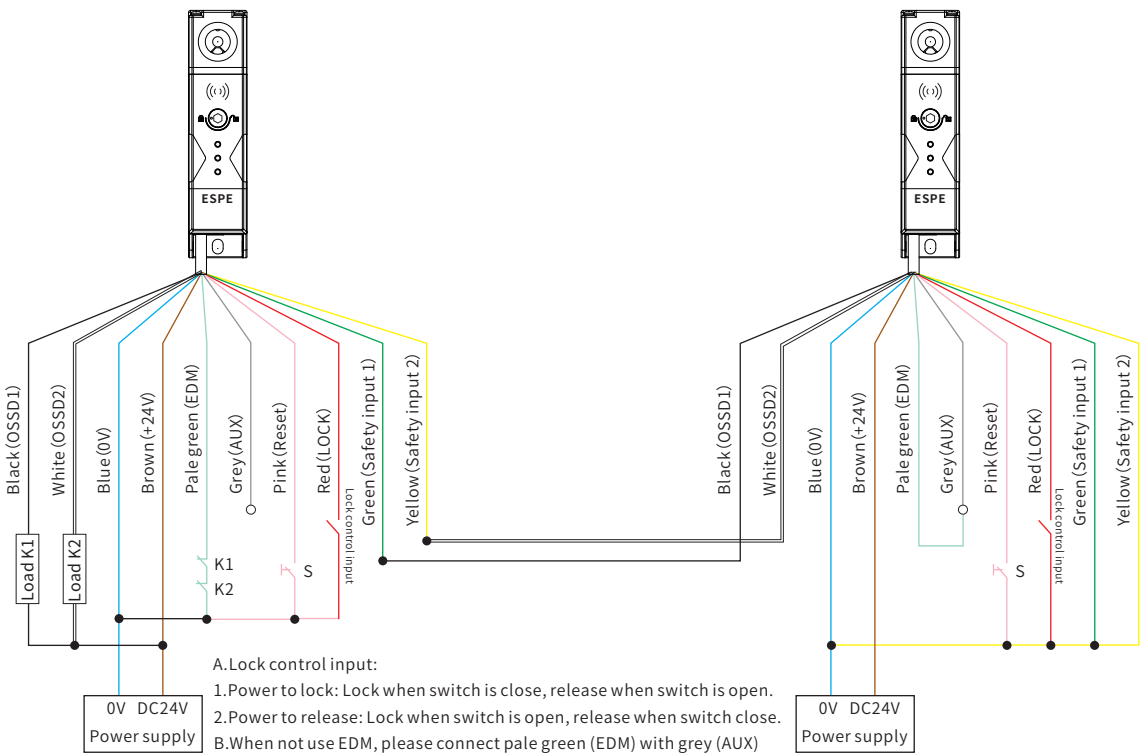
SLR11 Advanced (PNP, No cascade)



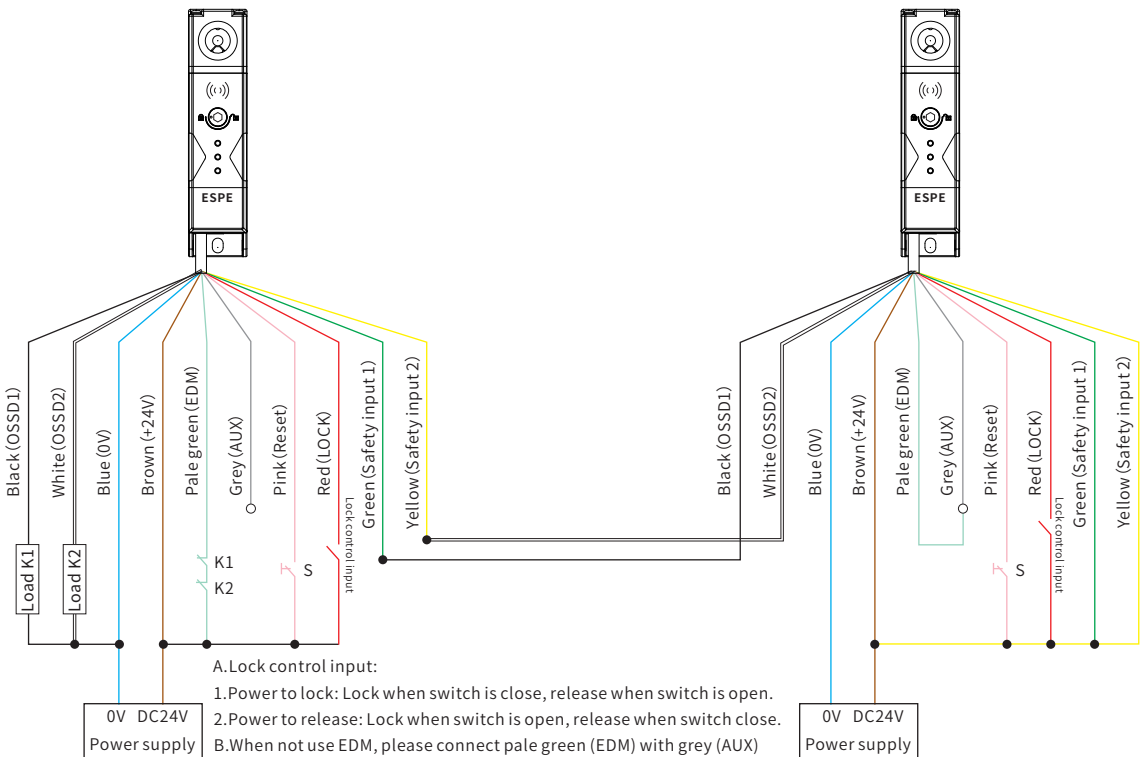
SLR11 Series Safety Interlock Switch

Wire diagram

SLR11 Advanced mode (NPN, cascade)



SLR11 Advanced mode (PNP, cascade)

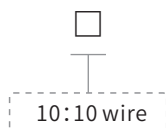


Cable option

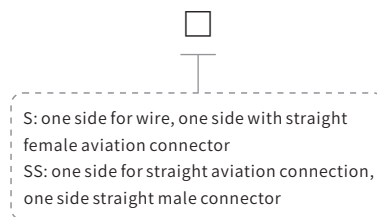
Product series

SLR11 — M12P

Wire NO.



Cable type

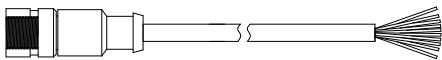


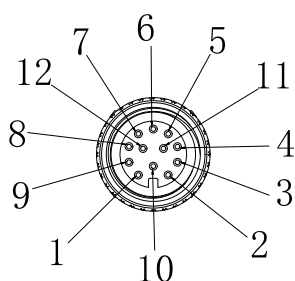
Length



Remark: With leading wire type, no need to refer about this.

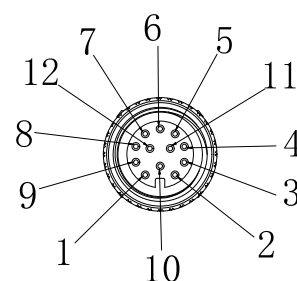
Selection table (with cable)

Standard cable	Type	Length	Model
	Common use for standard & advanced type	3m	SLR11-M12P10S3
		5m	SLR11-M12P10S5
		10m	SLR11-M12P10S10
		20m	SLR11-M12P10S20



M12 waterproof aviation female connector

- 1、Brown-VCC;
- 2、Blue-GND;
- 3、Grey-AUX;
- 4、Black-OSSD1;
- 5、White-OSSD2;
- 6、Green-Safety input 1;
- 7、Yellow-Safety input 2;
- 8、Red-LOCK;
- 9、Pale green-No connect;
- 10、Pink-No connect;
- 11、No mark;
- 12、No mark;



M12 waterproof aerial female connector Advanced series

- 1、Brown-VCC;
- 2、Blue-GND;
- 3、Grey-AUX;
- 4、Black-OSSD1;
- 5、White-OSSD2;
- 6、Green-Safety input 1;
- 7、Yellow-Safety input 2;
- 8、Red-LOCK;
- 9、Pale green-EDM;
- 10、Pink-Reset;
- 11、No mark;
- 12、No mark;



Product introduction

New generation safety door switch save labor and is environment beneficially. Equipped with 2NC/1NO and 3NC contact structure of 3 contact type. Mechanical design only used for monitoring door close/open.

Product feature

- Optional contacts.
- Support general load and micro-load.
- Simple installation and wiring to save labor and install easily.
- Rotated head.

SSM11 Series Safety Door Switch

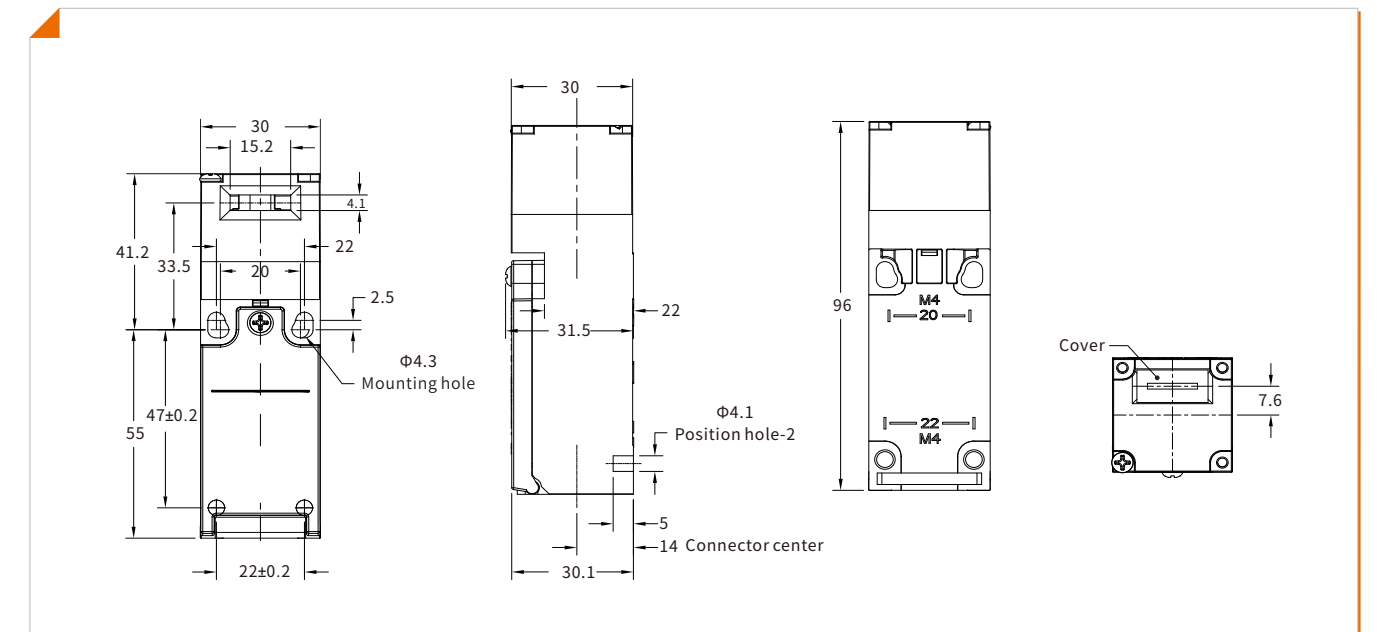
Technical parameter

Safety level	PL d (ISO 13849-1)	
Certificates	CE	
Standard	EN60947-5-1、IEC60947-5-1、GB/T 14048.5、EN ISO 14119、GB/T 18831	
Protection rate	IP67	
Material	PA66 fire retardant	
Mechanical lifespan	Over 1,000,000 times	
Electrical lifespan	Over 150.000	
Using type	AC-15	DC-13
Rated operating voltage (Ue)	240V	24V
Rated operating current (Ie)	3A	2A
Electrical parameters		
Contact resistance	< 200 mΩ	
Rated insulation voltage (Ui)	300V	
Anti-electric shock level	Class II (Dual Insulation)	
Pulse withstand voltage (EN60947-5-1)	2.5KV	
Insulation resistance	100MΩ above (<500VDC)	
Short-circuit protection	10A, 250V requires a quick-break fuse	
Vibration resistance	10-55Hz double amplitude 1.5mm	
Impact resistance	Durability1000m/s²	
Conditional short-circuit current	100A (EN 60947-5-1)	
Space of contact	2×2mm above	
Action characteristic		
Direct opening force	Min. 60N	
Direct opening travel	Over 10mm	
Allowed operating speed	0.1 m ~ 0.5m/s	
Allowed operating frequency	Maximum 20 times/minutes	
Environment		
Operating environment	3 (EN60947-5-1)	
Operating temperature	-10°C ~ + 60°C (no freezing)	
Operating humidity	< 85%RH	

✈ **Model selection (eg.: SSM11-AP2)**

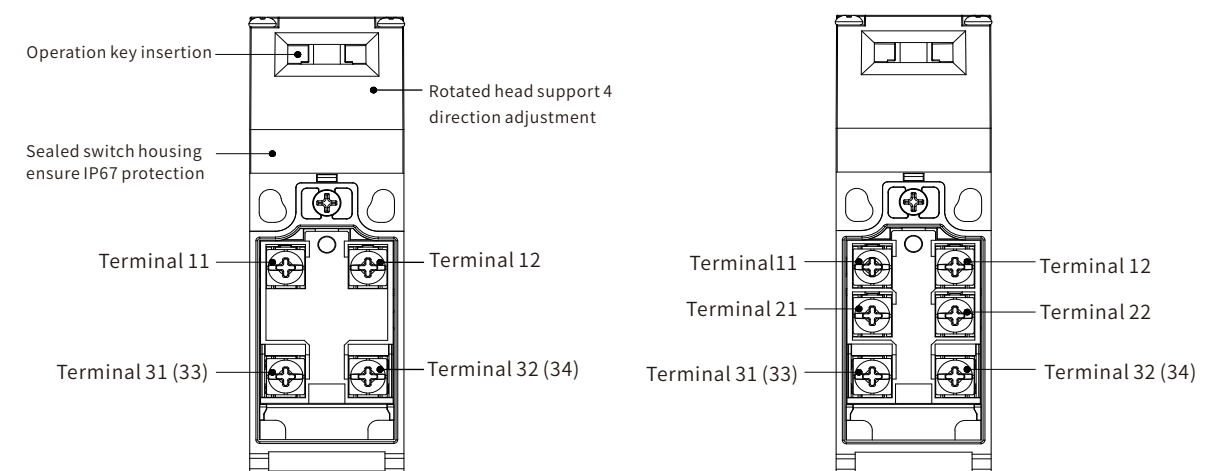
Product series	Internal switch	Head direction/ Material	Connector
SSM11	 A: 1 NC/1NO (Slow action) B: 2NC (Slow action) C: 2NC/1NO (Slow action) D: 3NC (Slow action)	 P: 4 optional directions(front side as ex-work setting)/ plastic M: 4 optional directions(front side as ex-work setting)/ metal	 2: M20

Product size



Contacts action

Note: The terminal arrangement of the extended form is the same



SSM11 Series Safety Door Switch

SSM11 model selection table

Head material	Contact type	Connector size	Model
Plastic	1NC/1NO	M20	SSM11-AP2
	2NC	M20	SSM11-BP2
	2NC/1NO	M20	SSM11-CP2
	3NC	M20	SSM11-DP2
Metal	1NC/1NO	M20	SSM11-AM2
	2NC	M20	SSM11-BM2
	2NC/1NO	M20	SSM11-CM2
	3NC	M20	SSM11-DM2

Contacts action

Picture shows the state of key inserting and locked.

Model	Contact	Wire diagram	Contact action
SSM11-AP2 SSM11-AM2	1NO+1NC		Operation key complete insertion Operation key extraction Travel → 11--12 33--34 Contact ON Contact OFF
SSM11-BP2 SSM11-BM2	2NC		Operation key complete insertion Operation key extraction Travel → 11--12 31--32 Contact ON Contact OFF
SSM11-CP2 SSM11-CM2	2NC/1NO		Operation key complete insertion Operation key extraction Travel → 11--12 21--22 33--34 Contact ON Contact OFF
SSM11-DP2 SSM11-DM2	3NC		Operation key complete insertion Operation key extraction Travel → 11--12 21--22 31--32 Contact ON Contact OFF

High Performance Contactless Safety Door Switch



Product introduction

Safety door switch is a kind of safety device, specialized for monitoring open/ close of protective mechanism (like safety fence door, protective cover). SSR22 series safety door switch with RFID technology to ensure high safety and confidentiality. The sensor & label support universal coding and unique coding. Small size is better for mounting.

Product feature

- Self-diagnose and cross-diagnose design: periodic mutual diagnose improve the safety level.
- Independent and redundant output: In case any risk caused by single loop failure.
- Magnetic holding force can reach 15N, which can replace the door magnet.

SSR22 Contactless Safety Door Switch

Product parameter

Standard	ISO 13849-1 (Cat. 4/PLe) ; IEC/EN60947-5-1 ; IEC/EN60947-5-3
Power supply	DC24V±15%
Capacity	<1W
Risk time	50ms
Response time	50ms
Magnetic holding force	>15N
Operating frequency	1Hz
OSSD output	PNP or NPN signal. Load below 200mA, residual voltage below 1V (except voltage caused by cable extension), leakage current below 1mA
Protective circuit	Overvoltage protection, power supply reverse polarity protection and overcurrent protection.
Coding mode	Universal coding, unique coding
Enclosure rating	IP65
Hosing sectional size	48*30mm
Vibration resistance	Frequency 10Hz-55Hz, amplitude 0.35±0.05mm, 20 times each at X, Y and Z directions.
Working temperature	-10℃~+55℃ (No freezing)
Storage temperature	-30℃~+70℃ (No freezing)
Working humidity	When 20℃, the humidity max <85%

Model selection (e.g. :SSR22-00NC-3)

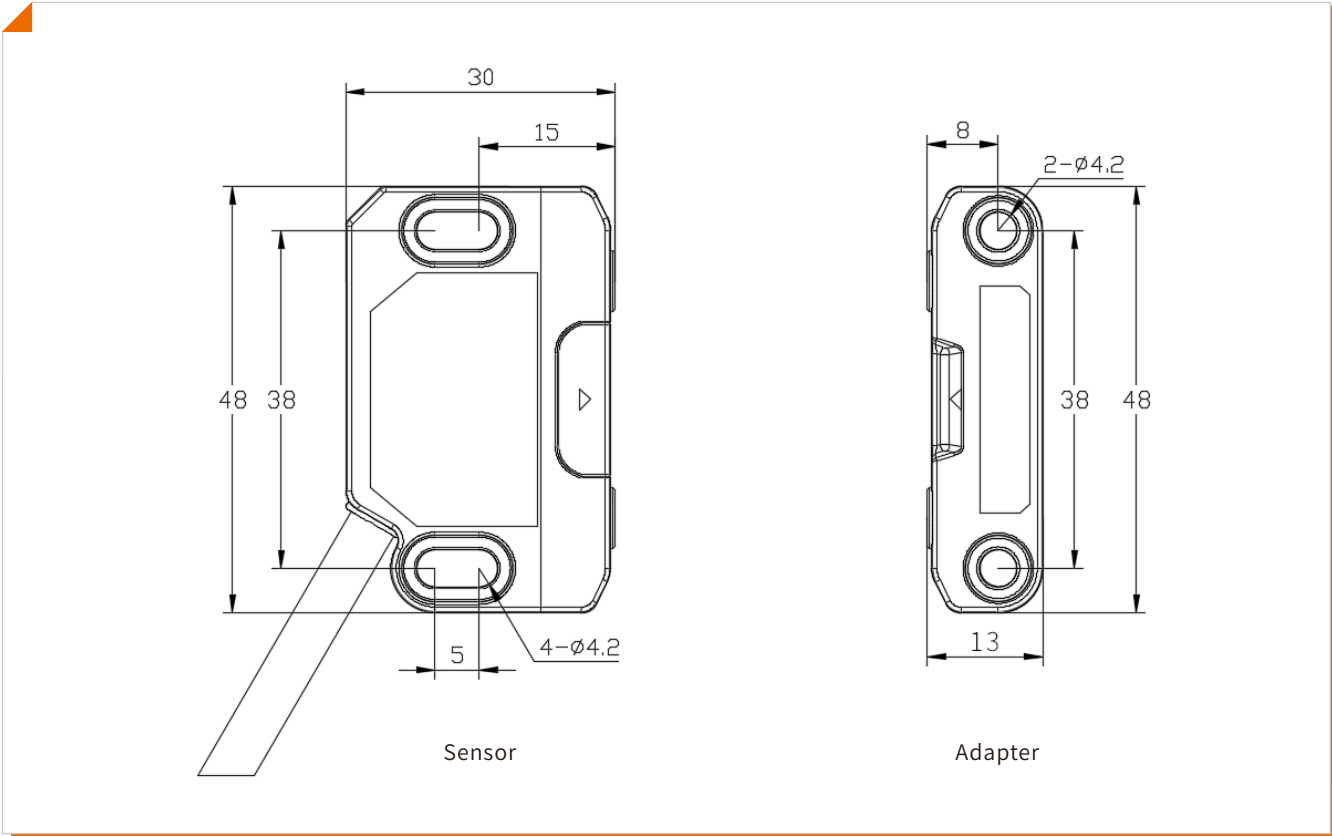
Product series	Configuration	Coding method	Output	Connector	Cable length
SSR22	— □ 0: Basic mode 1: Standard mode 2: Advanced mode	□ 0: Universal coding 1: Unique coding	□ N: NPN P: PNP	□ C: M12 connector No mark: leading wire	— □ 3: 3m 5: 5m 10: 10m 20: 20m

Function of configuration					
	Safety output	Cascade	EDM function	Reset	AUX output
Basic mode	●	—	—	—	—
Standard mode	●	●	—	—	—
Advanced mode	●	●	●	●	●

Selection table

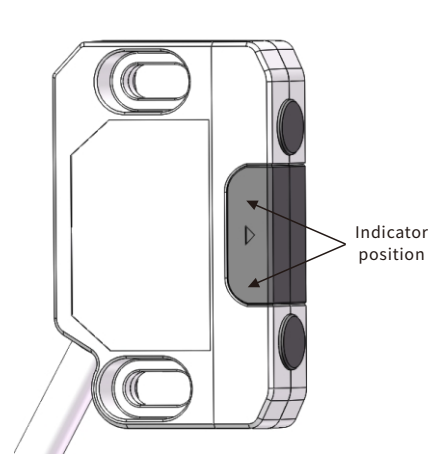
Mode	Output	Coding mode	Model
Basic mode	NPN	Universal coding	SSR22-00N
		Unique coding	SSR22-01N
	PNP	Universal coding	SSR22-00P
		Unique coding	SSR22-01P
Standard mode	NPN	Universal coding	SSR22-10N
		Unique coding	SSR22-11N
	PNP	Universal coding	SSR22-10P
		Unique coding	SSR22-11P
Advanced mode	NPN	Universal coding	SSR22-20N
		Unique coding	SSR22-21N
	PNP	Universal coding	SSR22-20P
		Unique coding	SSR22-21P

Product size



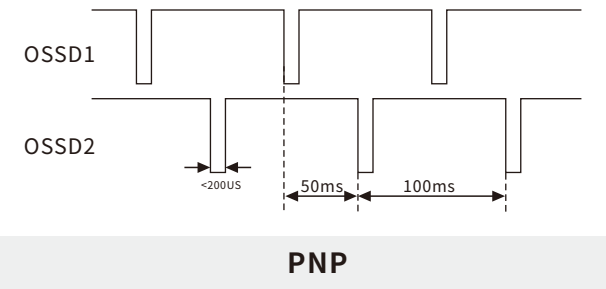
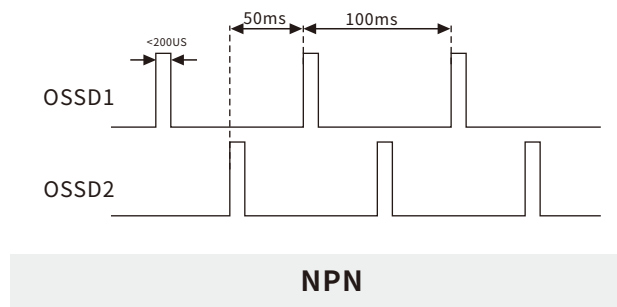
SSR22 Contactless Safety Door Switch

Indicator status



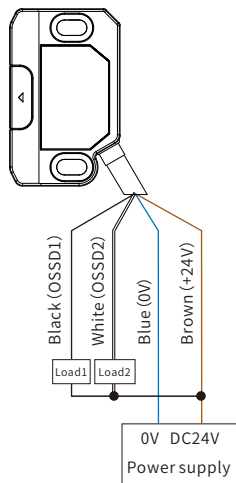
Indicator Status	Indicator
EEPROM error/SPI error	Red 4Hz blink
Output error/ EDM error	Red 1Hz blink
Voltage error	Red double blink
Unique coding unmatched	Red & green blink alternately at 4Hz
No error, No RFID, no output	Red ON
No error, RFID, cascade, waiting for reset signal	Green 4Hz blink
No error, RFID, not cascade	Green 1Hz blink
No error, RFID, cascade signal error	Green double blink
No error, all condition okay, with output	Green ON

Timing chart

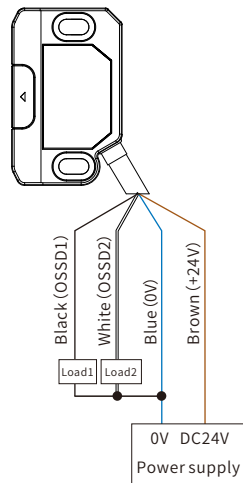


Wiring diagram

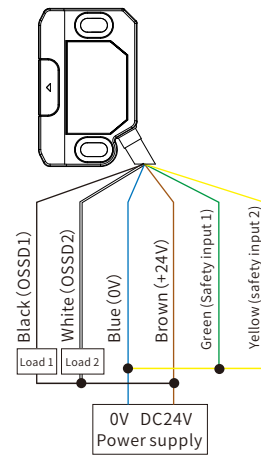
SSR22 Basic mode (NPN)



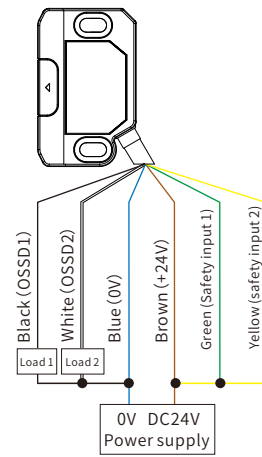
SSR22 Basic mode (PNP)



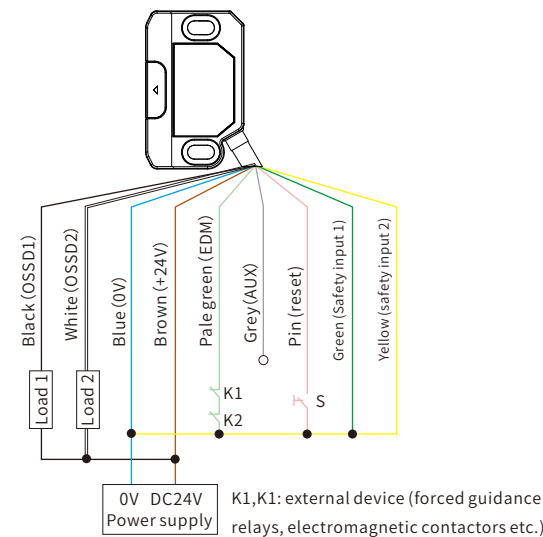
SSR22 Standard mode (NPN)



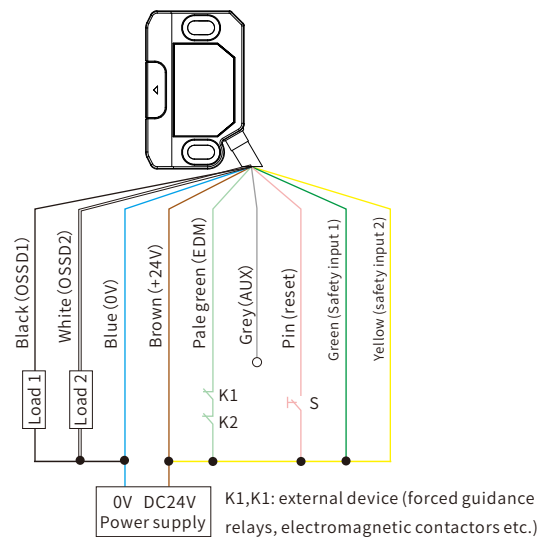
SSR22 Standard mode (PNP)



SSR22 Advanced mode (NPN)



SSR22 Advanced mode (PNP)



Wire details

Color	Function	Wire introduction
Brown	Power supply positive	Connect to power supply 24V.
Blue	Power supply negative	Connector to power supply 0V.
Black	Safety output 1	Connect safety PLC or interface of other safety input.
White	Safety output 2	
Green	Safety input 1	Cascade: connect to safety input of switch.
Yellow	Safety input 2	
Pale green	EDM	External relay or solenoid valve monitoring device.
Pin	Reset	Connect to reset button.
Grey	AUX	Connect to PLC.