

Выключатели безопасности двери (4 контакта) SLM11

Технические характеристики

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SLM11 Series

Multi-contact safety door switch

SLM11 Series Multi-Contact Safety Door Switch Introduction

SLM11 series safety door switch is equipped with multiple sets of contacts, with electromagnetic locking or mechanical locking function, selectable operation key insertion direction and adjustable installation to ensure installation flexibility, locking strength up to the reassuring 1300N, IP67 protection structure, ensuring that it can be widely used in different industrial environments.

Product Feature

- Multiple contacts group for selection
- Holding force is up to 1300N
- IP67 protection rate
- Various inserting direction of key
- Support general load or micro-load

Strong Holding Force, Reliable Safety Protection

- TUV EN 60947-5-1/IEC60947-5-1
- GB/T 14048.5
- IEC 61508
- EN ISO14119



Explanation model (example: SLM11-BPM2)

SLM11- ☐ 1 ☐ 2 ☐ 3 ☐ 4 - ☐ 5

1. Switch contact(Door monitor + Lock monitor)

- A: 1NO(Slow action) + 1NC (Slow action)
- B: 1NC/1NO(Slow action) + 2NC(Slow action)
- C: 1NC(Slow action) + 1NC(Slow action)
- D : 2NC(Slow action) + 1NC(Slow action)
- E: 2NO(Slow action) + 2NC (Slow action)
- F: 1NC/1NO(Slow action) + 1NC(Slow action)
- G : 2NC(Slow action) + 2NC (Slow action)
- H: 1NC/1NO(Slow action) + 1NC/1NO(Slow action)
- I : 1NO(Slow action) + 3NC(Slow action)
- J : 1NC(Slow action) + 3NC(Slow action)
- L : 3NC(Slow action) + 1NC(Slow action)
- M: 2NC(Slow action) + 1NC/1NO(Slow action)

2. Head mounting direction/material

- P: 4 mounting direction as selection (front side as ex-work setting)/Plastic
- M: 4 mounting direction as selection (front side as ex-work setting)/Metal

3 Lock/Unlock method

- M ☐ Mechanical lock/DC24V Power to release
- Y ☐ Mechanical lock/AC110V Power to release
- E ☐ DC24V Power to lock/Mechanical release
- X ☐ AC110V Power to lock/Mechanical release

4. Connector type

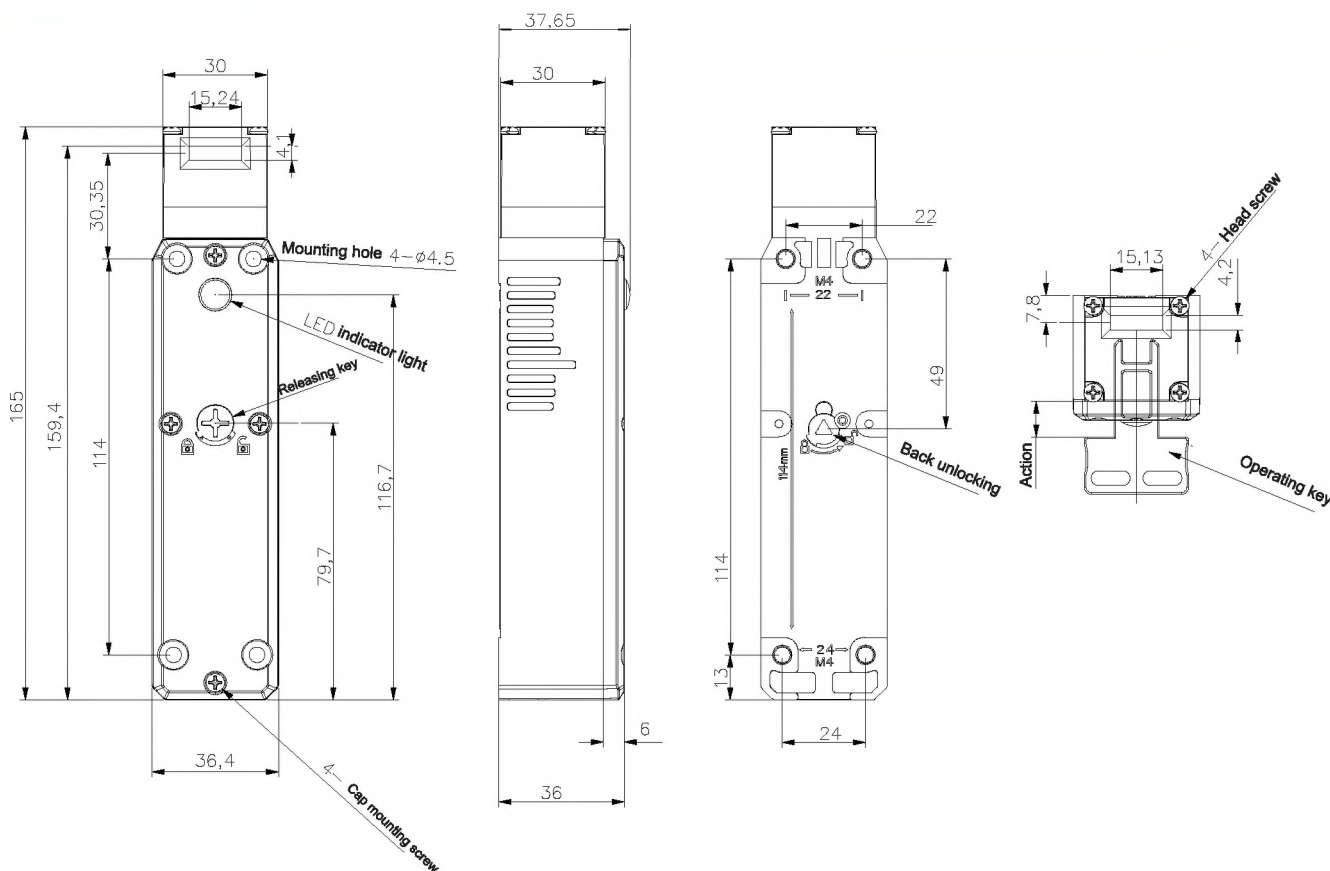
- 1: Pg13.5
- 2: M20

5 Direction of key insertion

- Non: Front
- Back unlocking

Note: 1. M20 is preferred for catheter port size.
If PG13.5 is selected, the minimum order of 500 sets is required
2. Do not accept separate order switch head or switch parts.
(Operating keys sold separately)

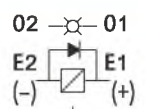
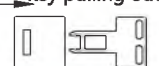
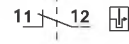
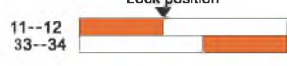
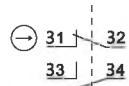
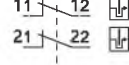
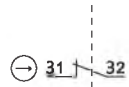
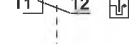
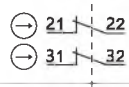
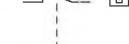
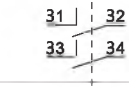
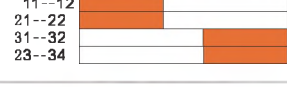
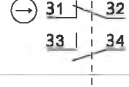
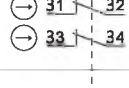
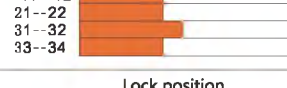
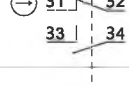
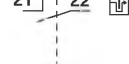
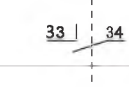
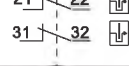
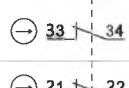
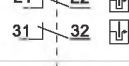
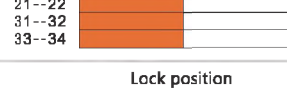
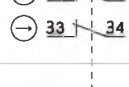
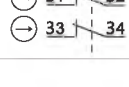
Product Size



SLM11 series selection sheet

Head material	Magnet voltage /indicator light	Lock/unlock method	Contact type (door monitor + lock monitor)	Connector	Model
Metal	Electromagnet DC24V Green LED	Mechanical lock Power to release	1NO+1NC	PG13.5	SLM11-AMM1
				M20	SLM11-AMM2
			1NC/1NO+2NC	PG13.5	SLM11-BMM1
				M20	SLM11-BMM2
			1NC+1NC	PG13.5	SLM11-CMM1
				M20	SLM11-CMM2
			2NC+1NC	PG13.5	SLM11-DMM1
				M20	SLM11-DMM2
			2NO+ 2NC	PG13.5	SLM11-EMM1
				M20	SLM11-EMM2
			1NC/1NO+1NC	PG13.5	SLM11-FMM1
				M20	SLM11-FMM2
			2NC+2NC	PG13.5	SLM11-GMM1
				M20	SLM11-GMM2
			1NC/1NO+1NC/1NO	PG13.5	SLM11-HMM1
				M20	SLM11-HMM2
			1NO+3NC	PG13.5	SLM11-IMM1
				M20	SLM11-IMM2
			1NC+3NC	PG13.5	SLM11-JMM1
				M20	SLM11-JMM2
			3NC+1NC	PG13.5	SLM11-KMM1
				M20	SLM11-KMM2
			2NC+1NC/1NO	PG13.5	SLM11-LMM1
				M20	SLM11-LMM2
		Power to lock Mechanical release	1NO+1NC	PG13.5	SLM11-AME1
				M20	SLM11-AME2
			1NC/1NO+2NC	PG13.5	SLM11-BME1
				M20	SLM11-BME2
			1NC+1NC	PG13.5	SLM11-CME1
				M20	SLM11-CME2
			2NC+1NC	PG13.5	SLM11-DME1
				M20	SLM11-DME2
			2NO+ 2NC	PG13.5	SLM11-EME1
				M20	SLM11-EME2
			1NC/1NO+1NC	PG13.5	SLM11-FME1
				M20	SLM11-FME2
			2NC+2NC	PG13.5	SLM11-GME1
				M20	SLM11-GME2
			1NC/1NO+1NC/1NO	PG13.5	SLM11-HME1
				M20	SLM11-HME2
			1NO+3NC	PG13.5	SLM11-IME1
				M20	SLM11-IME2
			1NC+3NC	PG13.5	SLM11-JME1
				M20	SLM11-JME2
			3NC+1NC	PG13.5	SLM11-KME1
				M20	SLM11-KME2
			2NC+1NC/1NO	PG13.5	SLM11-LME1
				M20	SLM11-LME2

Structure and action

Model	Contact type (door monitor + lock monitor)	Picture of wire connection		Contact action  Contact ON  Contact OFF
		door monitor	lock monitor	
				Operation key inserting  Action  Operation key pulling out
SLM11 - AP□□	1NO+1NC			Lock position 
SLM11 - BP□□	1NC/1NO+2NC			Lock position 
SLM11 - CP□□	1NC+1NC			Lock position 
SLM11 - DP□□	2NC+1NC			Lock position 
SLM11 - EP□□	2NO+2NC			Lock position 
SLM11 - FP□□	1NC/1NO+1NC			Lock position 
SLM11 - GP□□	2NC+2NC			Lock position 
SLM11 - HP□□	1NC/1NO+1NC/1NO			Lock position 
SLM11 - IP□□	1NO+3NC			Lock position 
SLM11 - JP□□	1NC+3NC			Lock position 
SLM11 - LP□□	3NC+1NC			Lock position 
SLM11 - MP□□	2 NC+1NC/1NO			Lock position 

SLM21-APMF1

Technical Parameter

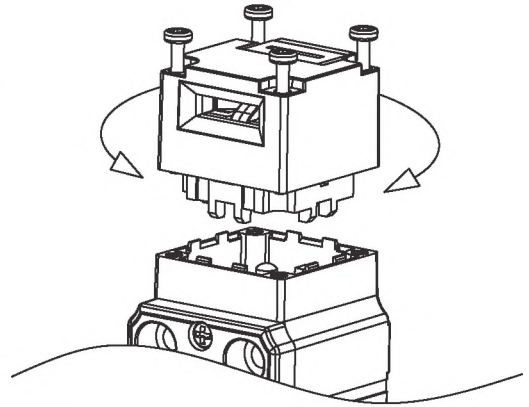
Electromagnetic tube		
Rated operating voltage	DC24V	
Power	4.8W	
Rated current	approximate 200mA	
Insulation	Class B(130°C)	
LED indicator		
Rated operating voltage	DC24V	
Rated current	approximate 1mA	
Luminous color (LED)	Green	
Safety level		
Certificate	CE, TUV	
Standard	EN60947-5-1、GB14048.5、IEC 61508、EN ISO14119	
Protection rate	IP67	
Material	PA66 fire retardant	
PA66 fire retardant	> 1000000 times	
Mechanical lifespan	150,000 + times (AC240V3A, resistive load)	
Using type	AC-15	DC-13
Rated operating voltage(Ue)	240V	24V
Rated operating current(Ie)	3A	2A
Electrical parameters		
Contact resistance	<25mΩ	
Nominal discharge current(Ith)	10A	
Rated insulation voltage(Ui)	300V	
Anti-electric shock level	Class II (Double insulation)	
Pulse withstand voltage(EN60947-5-1)	2.5KV	
Insulation resistance	> 100mΩ	
Short-circuit protection	10A,250V requires a quick-break fuse	
Vibration resistance	10-55HZ double amplitude 1.5mm	
Impact resistance	Durability3000m/s ² Mal-operation 300m/s ²	
Conditional short-circuit current	100A (EN 60947-5-1)	
Space of contact	Above 2x2mm	
Action characteristic		
Direct opening force	Minimum 60N	
Direct opening travel	≥10mm	
Allowed operating speed	0.1 m ~ 0.5m/s	
Allowed operating frequency	Maximum 30 times/minutes	
Holding force	1300N	
Environment		
Operating environment	3 (EN60947-5-1)	
Operating temperature	-10°C ~ + 55°C without freezing	
Operating humidity	<95%RH	

SLM11 series selection sheet

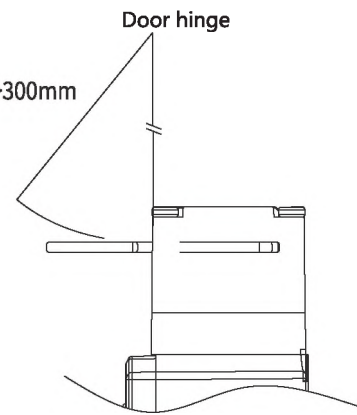
Head material	Magnet voltage /indicator light	Lock/unlock method	Contact type (door monitor + lock monitor)	Connector	Model
Plastic	Electromagnet DC24V Green LED	Mechanical lock Power to release	1NO+1NC	PG13.5	SLM11-APM1
				M20	SLM11-APM2
			1NC/1NO+2NC	PG13.5	SLM11-BPM1
				M20	SLM11-BPM2
			1NC+1NC	PG13.5	SLM11-CPM1
				M20	SLM11-CPM2
			2NC+1NC	PG13.5	SLM11-DPM1
				M20	SLM11-DPM2
			2NO+ 2NC	PG13.5	SLM11-EPM1
				M20	SLM11-EPM2
			1NC/1NO+1NC	PG13.5	SLM11-FPM1
				M20	SLM11-FPM2
			2NC+2NC	PG13.5	SLM11-GPM1
				M20	SLM11-GPM2
			1NC/1NO+1NC/1NO	PG13.5	SLM11-HPM1
				M20	SLM11-HPM2
			1NO+3NC	PG13.5	SLM11-IPM1
				M20	SLM11-IPM2
			1NC+3NC	PG13.5	SLM11-JPM1
				M20	SLM11-JPM2
			3NC+1NC	PG13.5	SLM11-LPM1
				M20	SLM11-LPM2
			2NC+1NC/1NO	PG13.5	SLM11-MPM1
				M20	SLM11-MPM2
		Power to lock Mechanical release	1NO+1NC	PG13.5	SLM11-APE1
				M20	SLM11-APE2
			1NC/1NO+2NC	PG13.5	SLM11-BPE1
				M20	SLM11-BPE2
			1NC+1NC	PG13.5	SLM11-CPE1
				M20	SLM11-CPE2
			2NC+1NC	PG13.5	SLM11-DPE1
				M20	SLM11-DPE2
			2NO+ 2NC	PG13.5	SLM11-EPE1
				M20	SLM11-EPE2
			1NC/1NO+1NC	PG13.5	SLM11-FPE1
				M20	SLM11-FPE2
			2NC+2NC	PG13.5	SLM11-GPE1
				M20	SLM11-GPE2
			1NC/1NO+1NC/1NO	PG13.5	SLM11-HPE1
				M20	SLM11-HPE2
			1NO+3NC	PG13.5	SLM11-IPE1
				M20	SLM11-IPE2
			1NC+3NC	PG13.5	SLM11-JPE1
				M20	SLM11-JPE2
			3NC+1NC	PG13.5	SLM11-LPE1
				M20	SLM11-LPE2
			2NC+1NC/1NO	PG13.5	SLM11-MPE1
				M20	SLM11-MPE2

Installation Method

- ★ Releasing the 4 screws on top of the cap, spinning the direction of top cap until the suitable position for key inserting

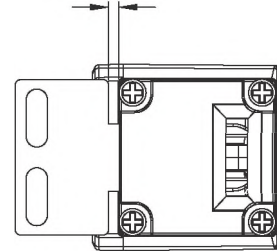


- ★ When install on side hung door, it should be over than semidiameter $R > 300\text{mm}$

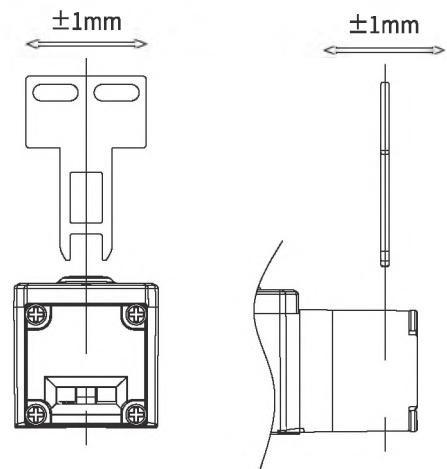


- ★ Please install the safety switch door and insertion key under range 1-3.5mm

Prepare position
: 1.0~3.5mm



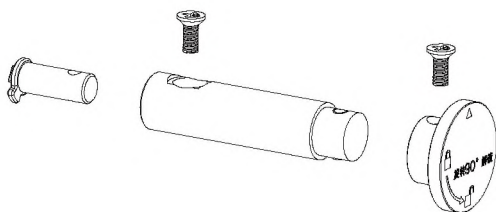
- ★ The installation of operation key allows $\pm 1\text{mm}$ error within the key insertion center of the hole



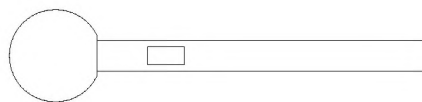
Back unlock device

Back handle

Model :SU-50

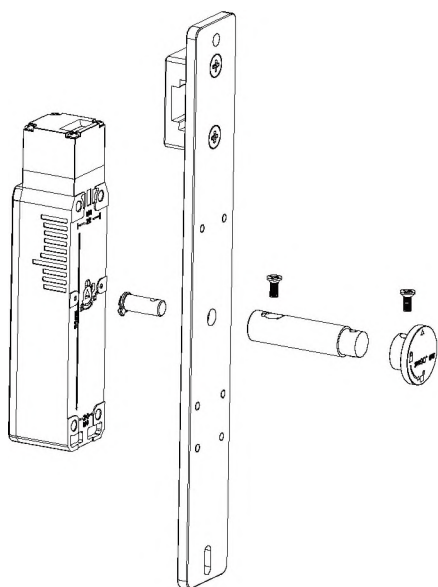


Model :SH-1

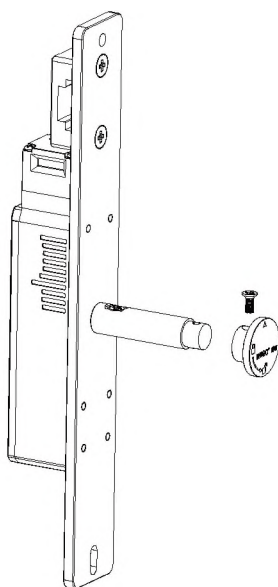


Installation of back unlock device

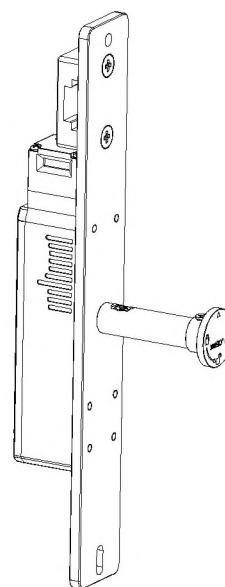
Step1



Step2



Step3



Precaution to back emergency unlock device

1. The unlocking knob on the back is safety measures of emergency evacuation in case that operators accidentally stranded within hazardous area.
2. Rotate the metal knob 90°counterclockwise to release the safety door lock, and the door can be opened.
3. To restore the locked state, please rotate the metal knob 90° clockwise. When the metal knob is in the unlocked position, even if the door is closed, the door cannot be locked.
4. Please be sure to install the emergency unlocking knob on the back in an operable place within the safety fence (hazardous area).
5. Please do not operate the unlocking knob on the back with tools, or apply excessive force, in directions other than the operating direction, or beyond the range of knob rotation angles, so as not to damage the knob components and cause inability to operate.

По вопросам продаж и поддержки обращайтесь:

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