

Выключатели безопасности двери (6 контактов) SLM21

Технические характеристики

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SLM21 Series

Safety door switch

SLM21 Series Safety Door Switch Introduction

SLM21 series safety door switch with many models for selection, optional key insertion direction make its easy to install. 1300N holding force and IP67 protection structure ensure its safely and widely use in different environment.

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

Reliable Safety Protection

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



Explanation model (example: SLM21-BPMF2)

SLM21 -

1 2 3 4 5

1、 Switch contact(Door monitor + Lock monitor)

- A: 1NC/1NO(Slow action) + 1NC/1NO(Slow action)
- B: 1NC/1NO(Slow action) + 2NC (Slow action)
- C: 2NC (Slow action) + 1NC/1NO (Slow action)
- D: 2NC(Slow action) + 2NC(Slow action)
- E: 2NC/1NO(Slow action) + 1NC/1NO (Slow action)
- F: 2NC/1NO(Slow action)+ 2NC(Slow action)
- G: 2NC/1NO (Slow action)+ 2NC/1NO(Slow action)
- H: 3NC(Slow action) + 1NC/1NO(Slow action)
- I: 3NC(Slow action) + 2NC(Slow action)
- J: 3NC (Slow action) + 3NC(Slow action)
- K: 3NC(Slow action) + 2NC/1NO(Slow action)
- L: 2NC/1NO (Slow action) + 3NC(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、 Direction of key insertion

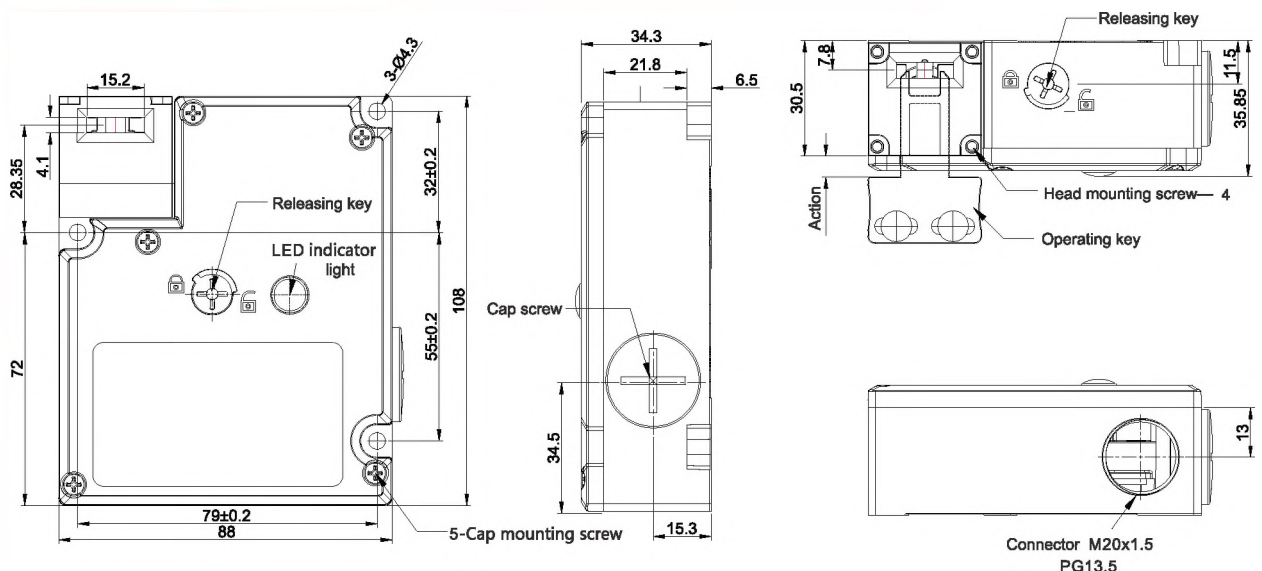
- T: Top
- F: Front

5、 Connector type

- 1: Pg13.5
- 2: M20

Note: 1. M20 is preferred for catheter port size.
MOQ of PG13.5 is 500pcs.
2. Switch head and parts are not sold separately.
(SK key excepted).

Product Size



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、IEC61508、EN ISO 14119	
Protection rate	IP67	
Material	PA66 fire retardant	
Mechanical lifespan	>1000000 times	
Electrical 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	
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	Impact resistance Durability 1000 S², Mal-operation 300m/ S²	
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	

SLM21 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	1NC/1NO + 1NC/1NO	PG13.5	SLM21-APMF1
				M20	SLM21-APMF2
			1NC/1NO + 2NC	PG13.5	SLM21-BPMF1
				M20	SLM21-BPMF2
			2NC + 1NC/1NO	PG13.5	SLM21-CPMF1
				M20	SLM21-CPMF2
			2NC + 2NC	PG13.5	SLM21-DPMF1
				M20	SLM21-DPMF2
			2NC/1NO + 1NC/1NO	PG13.5	SLM21-EPMF1
				M20	SLM21-EPMF2
			2NC/1NO + 2NC	PG13.5	SLM21-FPMF1
				M20	SLM21-FPMF2
			2NC/1NO + 2NC/1NO	PG13.5	SLM21-GPMF1
				M20	SLM21-GPMF2
			3NC + 1NC/1NO	PG13.5	SLM21-HPMF1
				M20	SLM21-HPMF2
			3NC + 2NC	PG13.5	SLM21-IPMF1
				M20	SLM21-IPMF2
			3NC + 3NC	PG13.5	SLM21-JPMF1
				M20	SLM21-JPMF2
			3NC + 2NC/1NO	PG13.5	SLM21-KPMF1
				M20	SLM21-KPMF2
			2NC/1NO + 3NC	PG13.5	SLM21-LPMF1
				M20	SLM21-LPMF2
		Power to lock Mechanical release	1NC/1NO + 1NC/1NO	PG13.5	SLM21-APEF1
				M20	SLM21-APEF2
			1NC/1NO + 2NC	PG13.5	SLM21-BPEF1
				M20	SLM21-BPEF2
			2NC + 1NC/1NO	PG13.5	SLM21-CPEF1
				M20	SLM21-CPEF2
			2NC + 2NC	PG13.5	SLM21-DPEF1
				M20	SLM21-DPEF2
			2NC/1NO + 1NC/1NO	PG13.5	SLM21-EPEF1
				M20	SLM21-EPEF2
			2NC/1NO + 2NC	PG13.5	SLM21-FPEF1
				M20	SLM21-FPEF2
			2NC/1NO + 2NC/1NO	PG13.5	SLM21-GPEF1
				M20	SLM21-GPEF2
			3NC + 1NC/1NO	PG13.5	SLM21-HPEF1
				M20	SLM21-HPEF2
			3NC + 2NC	PG13.5	SLM21-IPEF1
				M20	SLM21-IPEF2
			3NC + 3NC	PG13.5	SLM21-JPEF1
				M20	SLM21-JPEF2
			3NC + 2NC/1NO	PG13.5	SLM21-KPEF1
				M20	SLM21-KPEF2
			2NC/1NO + 3NC	PG13.5	SLM21-LPEF1
				M20	SLM21-LPEF2

SLM21 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	1NC/1NO + 1NC/1NO	PG13.5	SLM21-AMMF1
				M20	SLM21-AMMF2
			1NC/1NO + 2NC	PG13.5	SLM21-BMMF1
				M20	SLM21-BMMF2
			2NC + 1NC/1NO	PG13.5	SLM21-CMMF1
				M20	SLM21-CMMF2
			2NC + 2NC	PG13.5	SLM21-DMMF1
				M20	SLM21-DMMF2
			2NC/1NO + 1NC/1NO	PG13.5	SLM21-EMMF1
				M20	SLM21-EMMF2
			2NC/1NO + 2NC	PG13.5	SLM21-FMMF1
				M20	SLM21-FMMF2
			2NC/1NO + 2NC/1NO	PG13.5	SLM21-GMMF1
				M20	SLM21-GMMF2
			3NC + 1NC/1NO	PG13.5	SLM21-HMMF1
				M20	SLM21-HMMF2
			3NC + 2NC	PG13.5	SLM21-IMMF1
				M20	SLM21-IMMF2
			3NC + 3NC	PG13.5	SLM21-JMMF1
				M20	SLM21-JMMF2
			3NC + 2NC/1NO	PG13.5	SLM21-KMMF1
				M20	SLM21-KMMF2
			2NC/1NO + 3NC	PG13.5	SLM21-LMMF1
				M20	SLM21-LMMF2
		Power to lock Mechanical release	1NC/1NO + 1NC/1NO	PG13.5	SLM21-AMEF1
				M20	SLM21-AMEF2
			1NC/1NO + 2NC	PG13.5	SLM21-BMEF1
				M20	SLM21-BMEF2
			2NC + 1NC/1NO	PG13.5	SLM21-CMEF1
				M20	SLM21-CMEF2
			2NC + 2NC	PG13.5	SLM21-DMEF1
				M20	SLM21-DMEF2
			2NC/1NO + 1NC/1NO	PG13.5	SLM21-EMEF1
				M20	SLM21-EMEF2
			2NC/1NO + 2NC	PG13.5	SLM21-FMEF1
				M20	SLM21-FMEF2
			2NC/1NO + 2NC/1NO	PG13.5	SLM21-GMEF1
				M20	SLM21-GMEF2
			3NC + 1NC/1NO	PG13.5	SLM21-HMEF1
				M20	SLM21-HMEF2
			3NC + 2NC	PG13.5	SLM21-IMEF1
				M20	SLM21-IMEF2
			3NC + 3NC	PG13.5	SLM21-JMEF1
				M20	SLM21-JMEF2
			3NC + 2NC/1NO	PG13.5	SLM21-KMEF1
				M20	SLM21-KMEF2
			2NC/1NO + 3NC	PG13.5	SLM21-LMEF1
				M20	SLM21-LMEF2

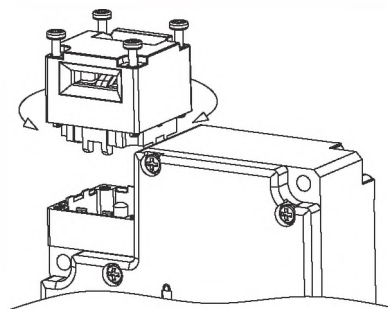
Structure and action

Below picture show status of switch with key inserting and locked (Terminal 2 & 41, 22 & 51/ 32 & 61 is inside connection)

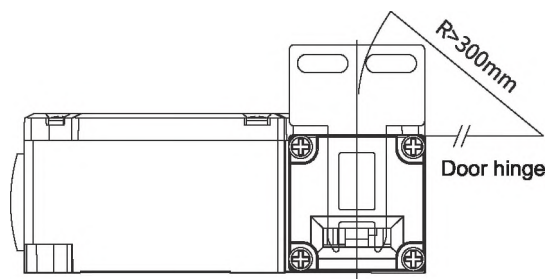
Model	Contact type (door monitor + lock monitor)	Picture of wire connection		Contact action : Contact ON : Contact OFF
		door monitor	lock monitor	
				Operation key inserting → Action → Operation key pulling out
SLM21 - AP□□□	1NC/1NO + 1NC/1NO			Lock position
SLM21 - BP□□□	1NC/1NO + 2NC			Lock position
SLM21 - CP□□□	2NC + 1NC/1NO			Lock position
SLM21 - DP□□□	2NC + 2NC			Lock position
SLM21 - EP□□□	2NC/1NO + 1NC/1NO			Lock position
SLM21 - FP□□□	2NC/1NO + 2NC			Lock position
SLM21 - GP□□□	2NC/1NO + 2NC/1NO			Lock position
SLM21 - HP□□□	3NC + 1NC/1NO			Lock position
SLM21 - IP□□□	3NC + 2NC			Lock position
SLM21 - JP□□□	3NC + 3NC			Lock position
SLM21 - KP□□□	3NC + 2NC/1NO			Lock position
SLM21 - LP□□□	2NC/1NO + 3NC			Lock position

Installation Method

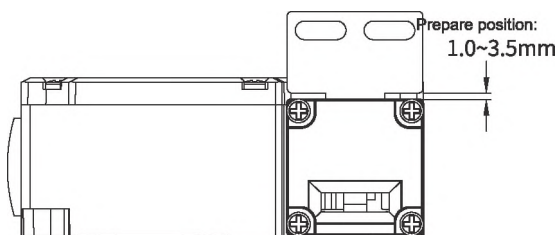
- ★ Releasing the 4 screws on top of the cap, spinning the direction of top cap until the suitable position for key inserting



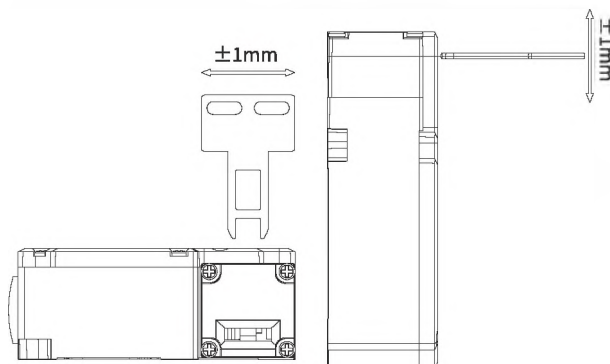
- ★ When install on side hung door, it should be over than semidiameter



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



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





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