



Safety protection forced lock

- EN 60947-5-1/IEC 60947-5-1
- GB/T 14048.5
- EN ISO 14119/ISO 14119
- GB/T 18831



Product introduction

SLM11 series safety door switch is equipped with multiple contacts, with electromagnetic locking or mechanical locking option, rotation head and various key type to ensure flexible installation. 1300N strong holding force and IP67 protection structure ensure its widely application range.

Product feature

- Multiple and optional contacts.
- 1300N holding force.
- IP67 protection rate.
- Rotated head & various keys.
- Support general load and micro-load.

SLM11 Series Safety Door Switch

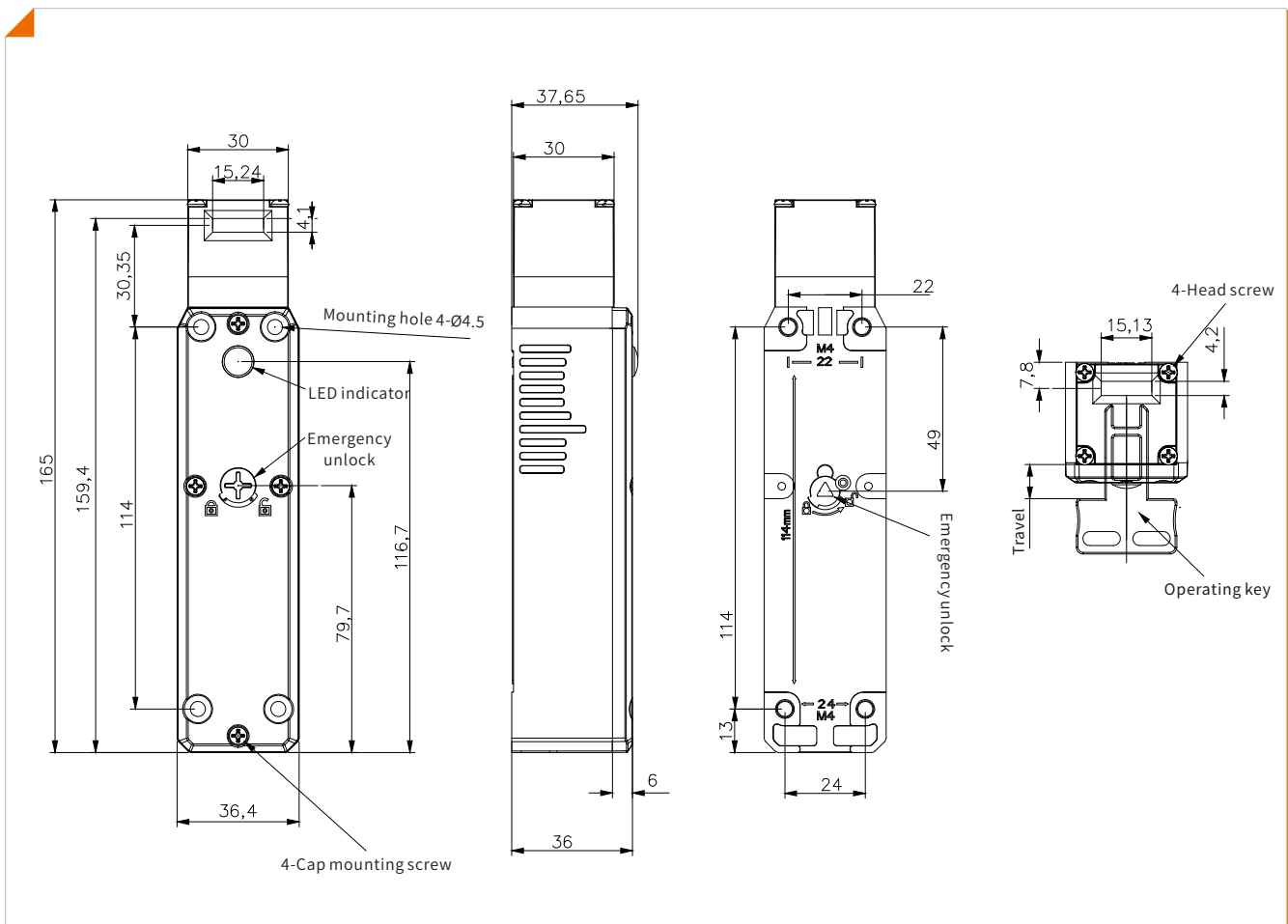
Technical parameter

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	PL d (ISO 13849-1)	
Certificates	TÜV Rheinland	
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 (AC240V 3A, resistive load)	
Using type	AC-15	DC-13
Rated operating voltage (Ue)	240V	24V
Rated operating current (Ie)	3A	2A
Electrical parameters		
Contact resistance	< 200 mΩ	
Nominal discharge current (Ith)	10A	
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	
Short-circuit protection	10A, 250V requires a quick-break fuse	
Vibration resistance	10-55Hz double amplitude 1.5mm	
Impact resistance	Durability1000m/s ²	
Conditional short-circuit current	100A (EN 60947-5-1)	
Space of contact	2×2mmabove	
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 30 times/minutes	
Holding force	1300N	
Environment		
Operating environment	3 (EN60947-5-1)	
Operating temperature	-10°C~+55°C (no freezing)	
Operating humidity	< 95%RH	

Model selection (eg.: SLM11-BPM2)

Product series	Switch contact (Door monitor + lock monitor)	Head direction/ Material	Door lock/ release method	Connector	Key inserting direction
SLM11	— ☐	☐	☐	☐ — ☐	☐
B: 1NC/1NO(Slow action)+2NC(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)		P: 4 optional directions (Default front side installation)/ plastic M: 4 optional directions (Default front side installation)/ metal	M: DC24V power to release (mechanical lock) E: DC24V power to lock	2: M20	No mark: front B: Rear to release

Product size



SLM11 Series Safety Door Switch

 **SLM11 model selection table**

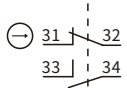
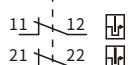
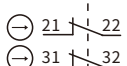
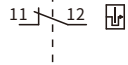
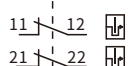
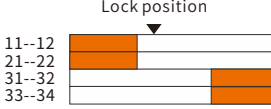
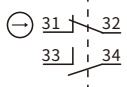
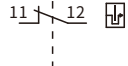
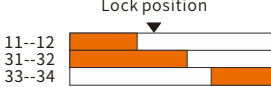
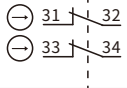
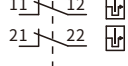
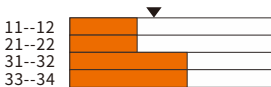
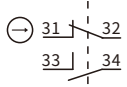
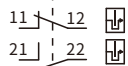
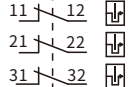
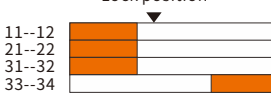
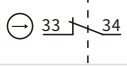
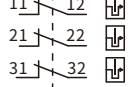
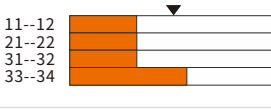
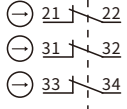
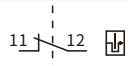
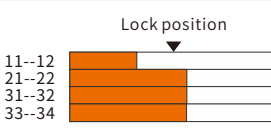
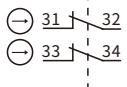
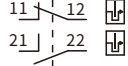
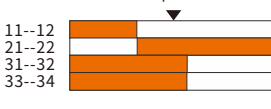
Release position	Head material	Magnetic voltage/ indicator	Lock/ Release method	Contact type (door monitor + lock monitor)	Connector size	Model
Top release	Plastic	Electromagnetic DC24V Green LED	Power to release	1NC/1NO+2NC	M20	SLM11-BPM2
				2NC+1NC	M20	SLM11-DPM2
				2NO+ 2NC	M20	SLM11-EPM2
				1NC/1NO+1NC	M20	SLM11-FPM2
				2NC+2NC	M20	SLM11-GPM2
				1NC/1NO+1NC/1NO	M20	SLM11-HPM2
				1NO+3NC	M20	SLM11-IPM2
				1NC+3NC	M20	SLM11-JPM2
				3NC+1NC	M20	SLM11-LPM2
				2NC+1NC/1NO	M20	SLM11-MPM2
			Power to lock	1NC/1NO+2NC	M20	SLM11-BPE2
				2NC+1NC	M20	SLM11-DPE2
				2NO+ 2NC	M20	SLM11-EPE2
				1NC/1NO+1NC	M20	SLM11-FPE2
				2NC+2NC	M20	SLM11-GPE2
				1NC/1NO+1NC/1NO	M20	SLM11-HPE2
				1NO+3NC	M20	SLM11-IPE2
				1NC+3NC	M20	SLM11-JPE2
				3NC+1NC	M20	SLM11-LPE2
				2NC+1NC/1NO	M20	SLM11-MPE2
	Metal	Electromagnetic DC24V Green LED	Power to release	1NC/1NO+2NC	M20	SLM11-BMM2
				2NC+1NC	M20	SLM11-DMM2
				2NO+ 2NC	M20	SLM11-EMM2
				1NC/1NO+1NC	M20	SLM11-FMM2
				2NC+2NC	M20	SLM11-GMM2
				1NC/1NO+1NC/1NO	M20	SLM11-HMM2
				1NO+3NC	M20	SLM11-IMM2
				1NC+3NC	M20	SLM11-JMM2
				3NC+1NC	M20	SLM11-LMM2
				2NC+1NC/1NO	M20	SLM11-MMM2
			Power to lock	1NC/1NO+2NC	M20	SLM11-BME2
				2NC+1NC	M20	SLM11-DME2
				2NO+ 2NC	M20	SLM11-EME2
				1NC/1NO+1NC	M20	SLM11-FME2
				2NC+2NC	M20	SLM11-GME2
				1NC/1NO+1NC/1NO	M20	SLM11-HME2
				1NO+3NC	M20	SLM11-IME2
				1NC+3NC	M20	SLM11-JME2
				3NC+1NC	M20	SLM11-LME2
				2NC+1NC/1NO	M20	SLM11-MME2

SLM11 model selection table

Release position	Head material	Magnetic voltage/ indicator	Lock/ Release method	Contact type (door monitor + lock monitor)	Connector size	Model
Front release	Plastic	Electromagnetic DC24V Green LED	Power to release	1NC/1NO+2NC	M20	SLM11-BPM2-B
				2NC+1NC	M20	SLM11-DPM2-B
				2NO+ 2NC	M20	SLM11-EPM2-B
				1NC/1NO+1NC	M20	SLM11-FPM2-B
				2NC+2NC	M20	SLM11-GPM2-B
				1NC/1NO+1NC/1NO	M20	SLM11-HPM2-B
				1NO+3NC	M20	SLM11-IPM2-B
				1NC+3NC	M20	SLM11-JPM2-B
				3NC+1NC	M20	SLM11-LPM2-B
				2NC+1NC/1NO	M20	SLM11-MPM2-B
			Power to lock	1NC/1NO+2NC	M20	SLM11-BPE2-B
				2NC+1NC	M20	SLM11-DPE2-B
				2NO+ 2NC	M20	SLM11-EPE2-B
				1NC/1NO+1NC	M20	SLM11-FPE2-B
				2NC+2NC	M20	SLM11-GPE2-B
				1NC/1NO+1NC/1NO	M20	SLM11-HPE2-B
				1NO+3NC	M20	SLM11-IPE2-B
				1NC+3NC	M20	SLM11-JPE2-B
				3NC+1NC	M20	SLM11-LPE2-B
				2NC+1NC/1NO	M20	SLM11-MPE2-B
	Metal	Electromagnetic DC24V Green LED	Power to release	1NC/1NO+2NC	M20	SLM11-BMM2-B
				2NC+1NC	M20	SLM11-DMM2-B
				2NO+ 2NC	M20	SLM11-EMM2-B
				1NC/1NO+1NC	M20	SLM11-FMM2-B
				2NC+2NC	M20	SLM11-GMM2-B
				1NC/1NO+1NC/1NO	M20	SLM11-HMM2-B
				1NO+3NC	M20	SLM11-IMM2-B
				1NC+3NC	M20	SLM11-JMM2-B
				3NC+1NC	M20	SLM11-LMM2-B
				2NC+1NC/1NO	M20	SLM11-MMM2-B
			Power to lock	1NC/1NO+2NC	M20	SLM11-BME2-B
				2NC+1NC	M20	SLM11-DME2-B
				2NO+ 2NC	M20	SLM11-EME2-B
				1NC/1NO+1NC	M20	SLM11-FME2-B
				2NC+2NC	M20	SLM11-GME2-B
				1NC/1NO+1NC/1NO	M20	SLM11-HME2-B
				1NO+3NC	M20	SLM11-IME2-B
				1NC+3NC	M20	SLM11-JME2-B
				3NC+1NC	M20	SLM11-LME2-B
				2NC+1NC/1NO	M20	SLM11-MME2-B

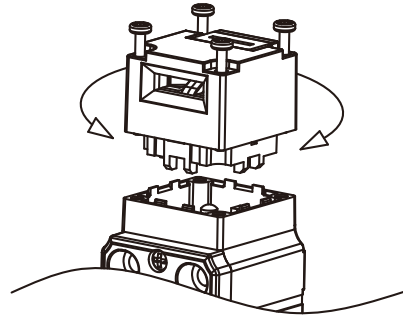
SLM11 Series Safety Door Switch

Contacts action

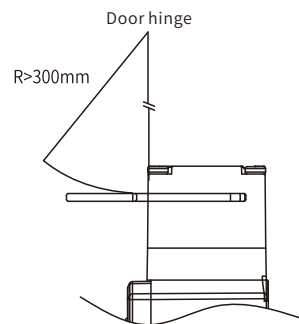
Model	Contact (door minitor+ lock monitor)	Wire diagram		Contact action
		door monitor	lock monitor	 Contact ON  Contact OFF
	door monitor lock monitor NC   NC   NO   NO  		02  01 E2  E1 (-) (+)	Operation key complete insertion Travel Operation key extraction 
SLM11 - BP□□ SLM11 - BM□□	1NC/1NO+2NC			Lock position 
SLM11 - DP□□ SLM11 - DM□□	2NC+1NC			Lock position 
SLM11 - EP□□ SLM11 - EM□□	2NO+ 2NC			Lock position 
SLM11 - FP□□ SLM11 - FM□□	1NC/1NO+1NC			Lock position 
SLM11 - GP□□ SLM11 - GM□□	2NC+2NC			Lock position 
SLM11 - HP□□ SLM11 - HM□□	1NC/1NO+1NC/1NO			Lock position 
SLM11 - IP□□ SLM11 - IM□□	1NO+3NC			Lock position 
SLM11 - JP□□ SLM11 - JM□□	1NC+3NC			Lock position 
SLM11 - LP□□ SLM11 - LM□□	3NC+1NC			Lock position 
SLM11 - MP□□ SLM11 - MM□□	2NC+1NC/1NO			Lock position 

Product installation

- ★ Loosen 4 screw on top of head, rotate the head to the right key inserting position and then install it.

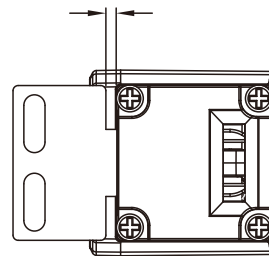


- ★ When install on slide hung door, it should be over than semidiameter.

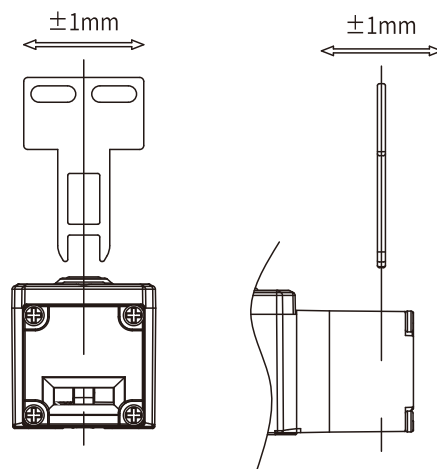


- ★ Please install the safety switch and insertion key under range 1-3.5mm.

Prepare position
1.0~3.5mm

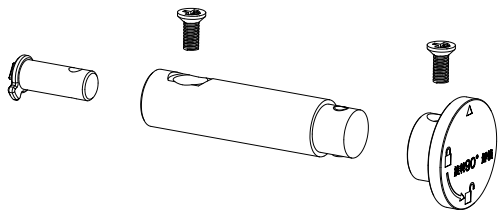


- ★ The installation of operation key allows $\pm 1\text{mm}$ deviation within the key insertion center of the hole.



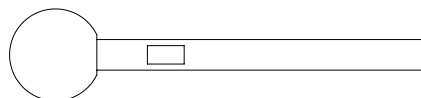
SLM11 Series Safety Door Switch

Rear release unit



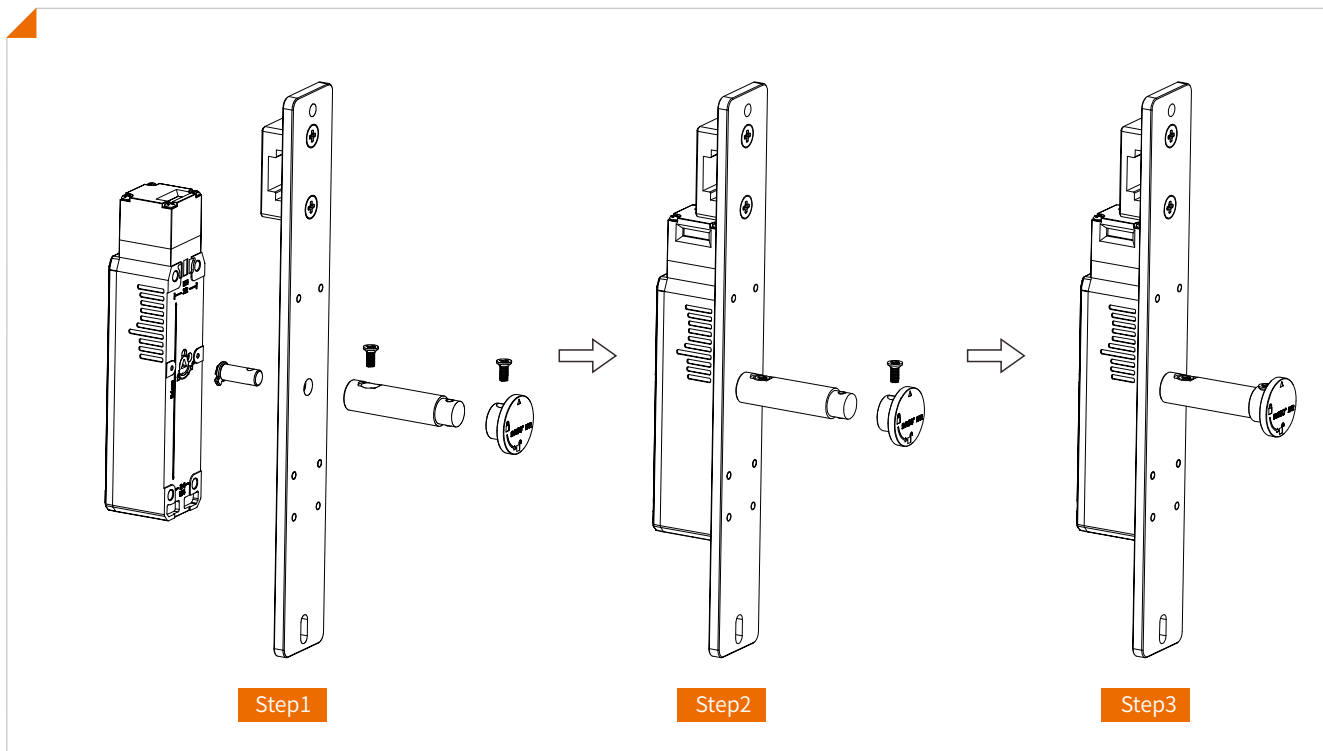
Model :SU-50 (Sold separately)

Back handle



Model :SH-1 (Sold separately)

Installation of back unlock device



Precautions for rear release button

- 1.The release button is a safety measure for emergency evacuation when operator is accidentally trapped in the safety fence (hazard area).
- 2.Rotate the metal knob 90° anticlockwise to release safety door switch and open the door.
- 3.After removed danger, please rotate the metal knob 90° clockwise to restore the locked state. The door cannot be locked even if the door is closed when the release knob is in the unlocked position.
- 4.Be sure to install the emergency release knob in an operable place inside safety fence (hazardous area).
- 5.Please do not operate the emergency release knob with tools or apply excessive force or force in directions other than the operating direction, or beyond the knob rotation angle range, so as to avoid damage to the knob parts and cause failure.