

SSM11 Series

Safety door switch

SSM11 Series Safety Door Switch Introduction

New generation of multi-contact safety door switch, saving labor, environment beneficially, equipped with 2NC/1NO and 3NC contact structure of 3-contact type. Safety door switch with no locking force to detect whether the mechanical guard or cover plate is closed.

Product Feature

- Multiple contacts group for selection
- Support general load or micro-load
- Simple installation and wiring, labor saving, easy to replace
- Various inserting direction of key



ESPE 意普 TEL:400-869-2227
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SAFETY LIMIT SWITCH
SSM11-AP2 CE

IEC/EN60947-5-1
GB/T14048.5-2017
AC-15 3A/240VAC
INDOOR USE ONLY
IND.CONT.EO IP67

11 12
33 34

SHENZHEN ESPE TECHNOLOGY CO.,LTD



Explanation model (example: SSM11-AP2)



1、 Internal switch

- A: 1 NC/1NO (Slow action)
- B: 2NC (Slow action)
- C: 2NC/1NO (Slow action)
- D: 3NC (Slow action)

2、 Head mounting direction/material

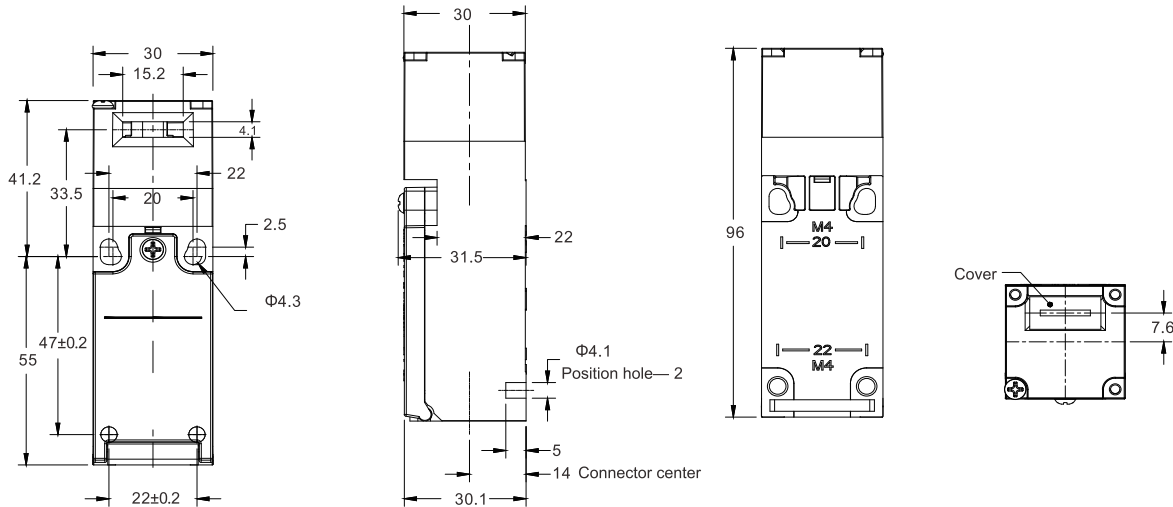
- P: 4 mounting direction as selection (front side as ex-work setting)/Plastic
- M: 4 mounting direction as selection (front side as ex-work setting)/Metal

3、 Connector type

- 1: Pg13.5
- 2: M20

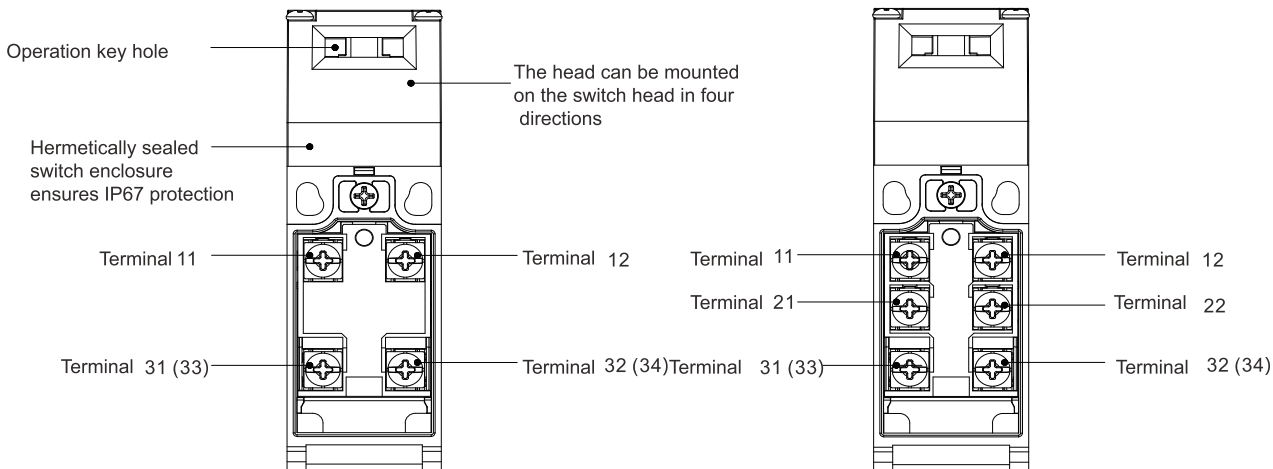
Note: 1. M20 is preferred for catheter port size. If PG13.5 is selected, the minimum order of 500 sets is required
 2. Do not accept separate order switch head or switch parts. (Operating keys sold separately)

Product Size



Structure and part names

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



- Safety Light Curtain
- Measurement Light Curtain
- Safety Interlock Switch
- SLM21 Series
- SLM11 Series
- SSM11 Series**
- SLR11 Series
- SSR22 Series
- EDS-R
- EDS-L
- EMB-M01
- Laser Radar

Technical Parameter

Safety level		
Certificate	CE	
Standard	EN60947-5-1、GB14048.5、IEC 61508、EN ISO14119	
Protection rate	IP67	
Material	PA66 fire retardant	
Mechanical lifespan	>1000000 times	
Electrical lifespan	150,000 + times	
Using type	AC-15	DC-13
Rated operating voltage(Ue)	240V	24V
Rated operating current(Ie)	3A	2A
Electrical parameters		
Contact resistance	<25mΩ	
Rated insulation voltage(Ui)	300V	
Anti-electric shock level	Class II (Double insulation)	
Pulse withstand voltage (EN60947-5-1)	2.5KV	
Insulation resistance	> 100mΩ (under 500VDC)	
Short-circuit protection	10A,250V requires a quick-break fuse	
Vibration resistance	10-55HZ, double amplitude 1.5mm	
Compact resistance	Durability 1000m/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	Standard Minimum 60N	
	High tensile force Minimum 80N	
Direct opening travel	≥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 ~ + 70°C without freezing	
Operating humidity	<85%RH	

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SSM11 series selection sheet

Head material	Contact type	Connector	Model
Plastic	1NC/1NO	PG13.5	SSM11-AP1
		M20	SSM11-AP2
	2NC	PG13.5	SSM11-BP1
		M20	SSM11-BP2
	2NC/1NO	PG13.5	SSM11-CP1
		M20	SSM11-CP2
	3NC	PG13.5	SSM11-DP1
		M20	SSM11-DP2
Metal	1NC/1NO	PG13.5	SSM11-AM1
		M20	SSM11-AM2
	2NC	PG13.5	SSM11-BM1
		M20	SSM11-BM2
	2NC/1NO	PG13.5	SSM11-CM1
		M20	SSM11-CM2
	3NC	PG13.5	SSM11-DM1
		M20	SSM11-DM2

Structure and action

Below pictures shows locking condition with key inserting

Model	Contact	Contact type	Action mode
SSM11-AP1 SSM11-AP2 SSM11-AM1 SSM11-AM2	1NO+1NC		<p>Operation key inserting Lock position Pull position</p> <p>Action →</p> <p>Contact ON: </p> <p>Contact OFF: </p>
SSM11-BP1 SSM11-BP2 SSM11-BM1 SSM11-BM2	2NC		<p>Operation key inserting Lock position Pull position</p> <p>Action →</p> <p>Contact ON: </p> <p>Contact OFF: </p>
SSM11-CP1 SSM11-CP2 SSM11-CM1 SSM11-CM2	2NC/1NO		<p>Operation key inserting Lock position Pull position</p> <p>Action →</p> <p>Contact ON: </p> <p>Contact OFF: </p>
SSM11-DP1 SSM11-DP2 SSM11-DM1 SSM11-DM2	3NC		<p>Operation key inserting Lock position Pull position</p> <p>Action →</p> <p>Contact ON: </p> <p>Contact OFF: </p>

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