

SSM11Series

Mechanical safety door switch



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

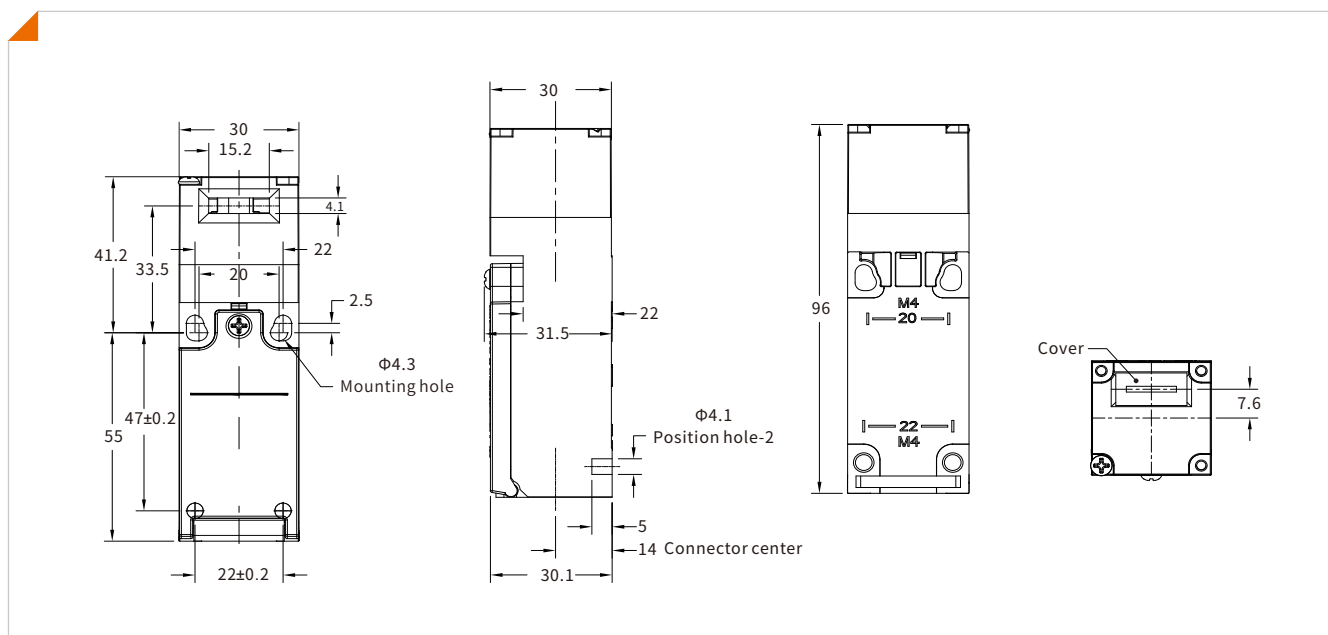
Technical parameter

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/s ²	
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)

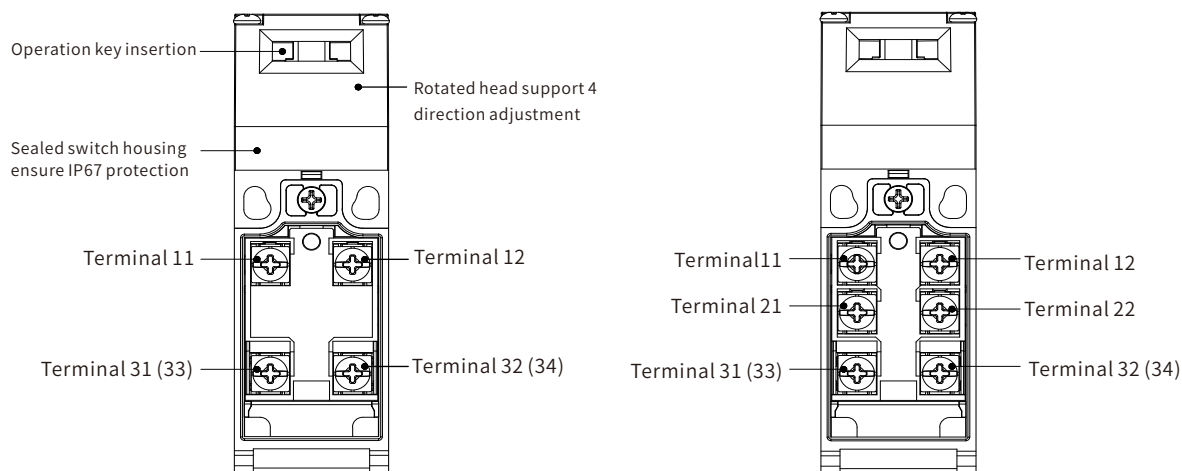
Product series	Internal switch	Head direction/ Material	Connector
SSM11	—		
	 A: 1 NC/1NO (Slow action) B: 2NC (Slow action) C: 2NC/1NO (Slow action) D: 3NC (Slow action)	 P: 4 optional directions(front side as ex-work setting)/ plastic M: 4 optional directions(front side as ex-work setting)/ metal	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

Product size



Contacts action

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



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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