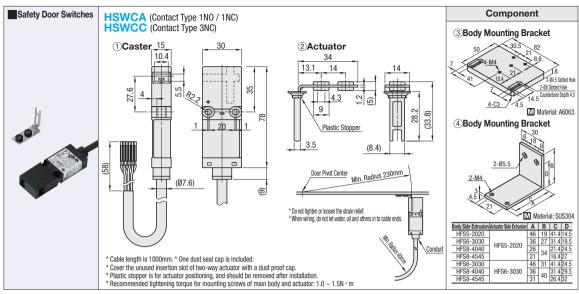
Safety Door Switches / Locks for Aluminum Extrusions



Part Number		Body	Actuator	Accessory								HSWCA		HSWCC				
Type	No.	Mounting	Mounting	Body Mounting Extrusion Side													Unit Price	
Type	140.	Side		Body Mounting Bracket	⑤Screw	Quantity	6 Nut	Quantity	7 Mounting Screw for Body	Quantity	®Screw	Quantity	9Nut	Quantity	1 ~ 9 pc(s).	10~30	1 ~ 9 pc(s).	10~30
	5	HFS5-2020	Panel (3mm or 5mm)	3	SCB4-8		HNTASN5-4	-	SCB4-18					4				
	6	HFS6-3030	Panel (3mm or 5mm)		SCB4-10		HNTASN6-4				SCB4-12		SLBNR4					
HSWCA	8	HFS8-4040 HFS8-4545	Panel (3mm or 5mm)		SCB4-12		HNTASN8-4											
HSWCC	5-5	HFS5-2020	HFS5-2020	4	SCB5-8	2	2 HNTASN5-5 2 HNTASN6-5 HNTFSN8-5	2		2		2		2				
HSWCC	6-5	HFS6-3030			SCB5-10						SCB4-10		HNTFSN5-4					
	8-5	HFS8-4040			SCB5-14				SCB4-15									
	845-5	HFS8-4545			SCB5-15	1												
	6-6	HFS6-3030	HFS6-3030		SCB5-10		HNTASN6-5] !						
	8-6	HFS8-4040			SCB5-15		HNTFSN8-5				SCB4-12		HNTFSN6-4					
	845-6	HFS8-4545			3003-13		THVII SWO-3											

Contact Rating								
Ra	ated Insulation \	/oltage (Ui)	300V					
Ra	ated Current (Ith)	2.5A					
	ated Operating \	/oltage (Ue)	30V	125V	250V			
Rated Operating Current (le)*	AC	Resistive Load (AC-12)	-	2.5A	1.5A			
	AC	Inductive Load (AC-15)	-	1.5A	0.75A			
	DC	Resistive Load (DC-12)	2.5A	1.1A	0.55A			
	50	Inductive Load (DC-13)	2.3A	0.55A	0.27A			

Min. Load (Reference Values) =AC/DC3V. 5mA

(Useable operating range may change depending on load conditions and types.)

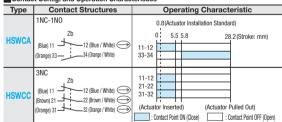
* Safety Standard Certification Rating C300: AC-15 0.75A/240V Q300: DC-13 0.27A/250V

■Performance Specifications

Applicable Standards Application Standards Applicable Directives	ISO14119, EN1088, IEC60947-5-1, EN60947-5-1 (DEMKO Certification), GS-ET-15 (BG Certification), USD (U Listing Certification), CSA C22.2 No.14 (c-UL Listing Certification) IEC60204-1/EN60204-1 73 / 23 / EEC (LOW Voltage Directive) Operating Ambient Temperature: -25 - 70°C (No Freezing)
Standard Use	Relative Humidity: 45 ~ 85% (No Condensation)
Condition	Relative Humidity: 45 ~ 85% (No Condensation) Storage Ambient Temperature: -40 ~ 80°C (No Freezing) Operating Environment: Pollution Level 3
Impulse Withstand Voltage	4kV
Insulation	Charged part and non-charged part: 100MΩ or more (with DC 500V mega)
Resistance	Between Polar Charged Parts: 100MΩ or more (with DC 500V mega)
Contact Resistance	Less than 300mΩ (Initial Value, Cable Length 1m)
Appliance Class	Class II(IEC61140)
Degree of Protection	IP67(IEC60529)
Impact Resistance	Malfunction: 300m/s2 Endurance: 1000m/s2
Vibration Resistance	Malfunction: 5 ~ 55Hz, Amplitude 0.5mm or more Endurance: 30Hz, Amplitude 1.5mm or more
Actuator Operating Speed	0.05~1.0m/s
Direct Opening Action Stroke	8mm or more
Direct Opening Force	60N or more
Operating Frequency	1200 times/h
Mechanical Durability	Over 1,000,000 times (GS-ET-15)
Electrical Durability	Over 100,000 times (Operating Frequency 1200 times/h, Load Condition: AC-12 250V 1.5A, DC-12 250V 0.2A)
Conditional Short-Circuit Current	50A (250V) (Note)
Body Color	Black
Cable	UL2464 No.20 AWG (6-Conductors)

Approx. 120g (for HSWCC Body) Note) Please use 250V/10A fast-blow fuse as short-circuit protection device.

Contact Config. and Operation Characteristics



P	Please refer to insulation colors and white lines for conductor identification.									
١	lo.	Insulator Color	No.	Insulator Color	Insulator of Wire Core					
	1	Orange / White	4	Brown	(6 <u>1</u> 2)					
	2	Blue / White	5	Blue	Outer Insulating Sheath (Black)					
	3	Brown / White	6	Orange	(Didon)					

Safety Cautions
-Shut off the power before attaching, detaching, wiring, maintaining and examining. There is a possible risk of fire or electric shock.

If a relay is to be placed between a emergency stop switch and a potentially hazardous load, use special safety relays to make the system redundant. Standard relay contacts may fuse and lose safety assurance. —Do not place a PLC between the safety switch and potentially hazardous load. PLC may maifunction and not provide

safety assurance.
-Do not disassemble, modify, or interfere with the safety switch functions in any means. Doing so may cause malfunctions and accidents

•Mount an actuator in places where human body does not come in contact with the opened or closed door. There is

Cautions for Use
Regardless of the door type, do not use the safety switch as door stoppers. Provide adequate door stoppers at door
travel limits to prevent excessive forces on the safety switches.

-Do not apply excessive shocks on the safety switches by rough open/close of doors. Applying more than 300m/s2 shock may cause failures. *Prevent any foreign objects from getting inside the safety switch through actuator's insertion slot. Excessive dusts

and foreign substances entered may negatively affect the mechanical elements and cause failures.

-Safety switches should not be stored in dusty or wet locations, or locations witch are subject to organic gas or

Operation without an actuator designed for the safety switch may cause switch failures.