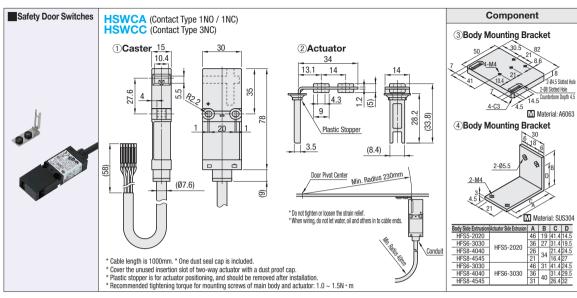
Safety Door Switches / Locks for Aluminum Extrusions



Part Number		Body	Actuator	Accessory									HSWCA		HSWCC			
Time	No.	Mounting	Mounting	Body Mounting Extrusion Side							Actuator Mounting Door Side			Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	
Type	NO.	Side	Side	Body Mounting Bracket	⑤Screw	Quantity	6Nut	Quantity	7 Mounting Screw for Body	Quantity	®Screw	Quantity		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	2	SCB4-12		SLBNR4	2				
	6	HFS6-3030	Panel (3mm or 5mm)		SCB4-10		HNTASN6-4											
HSWCA	8	HFS8-4040 HFS8-4545	Panel (3mm or 5mm)		SCB4-12	2	HNTASN8-4											
HSWCC	5-5	HFS5-2020		4	SCB5-8		HNTASN5-5	1			SCB4-10	2						
HSWCC	6-5	HFS6-3030	HFS5-2020		SCB5-10		HNTASN6-5					Н	HNTFSN5-4					
	8-5	HFS8-4040	NF33-2020		SCB5-14		HNTFSN8-5											
	845-5	HFS8-4545			SCB5-15		UNILLONO-3											
	6-6	HFS6-3030			SCB5-10		HNTASN6-5											
	8-6	HFS8-4040	HFS6-3030		SCB5-15	HNTFSN8-5	_			SCB4-12		HNTFSN6-4						
	DAE C	HECO VEVE					UNILLOMO-0											

■C	ontact Rating							
Ra	ated Insulation \	/oltage (Ui)	300V					
Ra	ated Current (Ith)	2.5A					
	ated Operating \	/oltage (Ue)	30V	125V	250V			
ırrent	AC	Resistive Load (AC-12)	-	2.5A	1.5A			
oguition (in	AC	Inductive Load (AC-15)	-	1.5A	0.75A			
Opera (R	DC	Resistive Load (DC-12)	2.5A	1.1A	0.55A			
Rated Operating Current (le)*	ВС	Inductive Load (DC-13)	2.3A	0.55A	0.27A			
		alues) =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

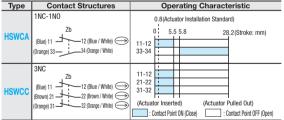
Conditional Short-Circuit Current

Performance Specifications								
Applicable Standards	on Standards	ISO14119, EN1088, IEC60947-5-1, EN60947-5-1 (DEMKO Certification), GS-ET-15 (BG Certification), UL508 (UL Listing Certification), CSA C22.2 No.14 (c-UL Listing Certification) IEC60204-1/FN60204-1						
Applicable Direc		73 / 23 / EEC (Low Voltage Directive)						
Standard Use Condition		Operating Ambient Temperature: -25 ~ 70°C (No Freezing) Relative Humidity: 45 ~ 85% (No Condensation) Storage Ambient Temperature: -40 ~ 80°C (No Freezing) Operating Environment Pollution Level 3						
Impulse Withstand V	oltage	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 Resista	nce	Less than 300mΩ (Initial Value, Cable Length 1m)						
Appliance Class	i	Class II(IEC61140)						
Degree of Prote	ction	IP67(IEC60529)						
Impact Resistan	ice	Malfunction: 300m/s2 Endurance: 1000m/s2						
Vibration Resist	ance	Malfunction: 5 ~ 55Hz, Amplitude 0.5mm or more Endurance: 30Hz, Amplitude 1.5mm or more						
Actuator Operating S	Speed	0.05~1.0m/s						
Direct Opening Action	Stroke	8mm or more						
Direct Opening Force		60N or more						
Operating Frequ		1200 times/h						
Mechanical Durab	ility	Over 1,000,000 times (GS-ET-15)						
Electrical Durab	ility	Over 100,000 times (Operating Frequency 1200 times/h, Load Condition: AC-12						

UL2464 No.20 AWG (6-Conductors)
Approx. 120g (for HSWCC Body) Note) Please use 250V/10A fast-blow fuse as short-circuit protection device.

50A (250V) (Note)

Contact Config. and Operation Characteristics



Please refer to insulation colors and white lines for conductor identification.									
No.	Insulator Color	No.	Insulator Color	Insulator of Wire Cor					
1	Orange / White	4	Brown	(6)2)					
2	Blue / White	5	Blue	Outer Insulating Sheath 5 4 3 (Black)					
3	Brown / White	6	Orange	(Diddit)					

Safety Cautions
Shut off the power before attaching, detaching, wirring, 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 malfunction 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 a risk of injury.

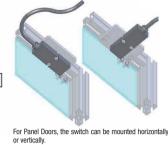
Cautions for Use
-Regardless of the door type, do not use the safety switch as door stoppers. Provide adequate door stoppers at door travel limits to prevent excessive forces on the safety switches.

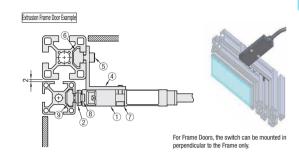
-Do not apply excessive shocks on the safety switches by rough open/close of doors. Applying more than 300m/s2

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.

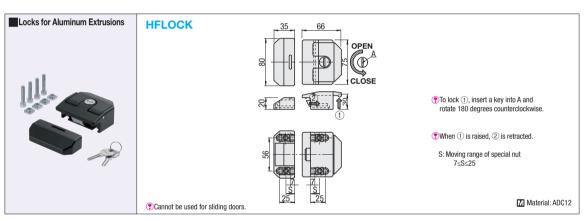








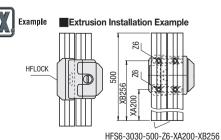
Ordering Part Number



Part Nu	mber	Extrusion		Α	ccessory	Unit Price	Volume Discount Rate			
Туре	No.	(Series)	Screw		Nut		Key		1 ~ 9 pc(s).	10~50
HFLOCK	5	HFS5	CBM6-20		Dedicated M6 Nut	4 pcs.	Key	2 pcs.		
	6	HFS6	CBM6-30	4 pcs.						
	8	HFS8	CBM6-35							
	8-45	HFS8-45	CBM6-40							







Alteration examples of counterbore machining on extrusions for HFLOCK mounting
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Extrusion Square							
20	HFS5-2020-500-Z6-XA200-XB256	2					
30	HFS6-3030-500-Z6-XA200-XB256	2					
40	HFS8-4040-500-Z6-XA200-XB256	2					
45	HFS8-4545-500-Z6-XA200-XB256	2					

HELOCK is a lock for aluminum extrusions. The lock is mounted on the counterbored extrusion using the included screws, as shown on the Alteration