FOOT SWITCH

HRF-HD8

Part number

	HRF - HD8 - 0 0 0							
0	Protection form	S : Standard(HD8)		L: Anti-operation error lever type (HD8L)				
0	Opration form	Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard		Safety type [KSB1-A with resistance point and reset button] Maintained alternating type				
0	Built-in switch	1 : KSB1 (slow action contacts 20A)						
4	Contact form	1:1a+1b	2: 2a	3: 2a+2b	4: 2b			

Performance and specifications

	Material		Ag Alloy (24K Au Plated)
	Rated current		20A 250VAC
Contacts	Rated voltage		Max. 440VAC
	Contact resistance		Max. 50mΩ
	Dielectric		2,000VAC (1min.)
	Lifespan	Electrical	200,000
Specifications	Lilespan	Mechanical	1,000,000
-	IP rating	-	IP67
	Insulation resistance		100MΩ min.(at 500VDC)

For IP65 and above, a COC can be issued. Please contact our Quality and Technical Department for more information.

(HRF-HD8L811)

Mechanical anti-malfunction device prevents operation due to user mistake or impact maximised user safety, the anti-malfunction lever is inside compared to conventional products, making it easier to operate and more convenient to press the pedal.

Action flowchart



① Safety lever is held in position
NC position
② Pedals can be operated (NO)
NC position (Reset)
Contacts









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Safe-Reset (HRF-HD8S811)

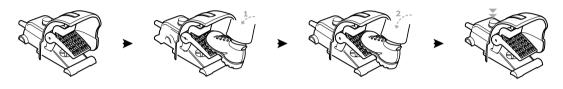
Quick control, in case of emergency, press the reset button on the top to quickly deactivate the pedal \to Maximise safety

Nc: Normal Close No: Normal Open



Reset button

Action flowchart



1 Initial position 1

2 Position 3

3 Position 3

4 Initial position 1(Reset)



Initial position 1 (Contact B (NC)-on / Contact A (NO)-off)



Position 2 with a pressing motion Both B (NC) & A (NO) contacts are ON



Position 3, the B contact (NC) is OFF and the A contact (NO) is ON by pressing the footrest . (Self - sustaining state where the foot is removed from the pedal until the reset button is pressed.)

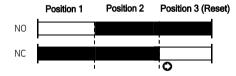


Press the Reset-Button on the top of the footswitch to reset to the initial state. B contact (NC)-on / A contact (NO)-off

Contact flowchart

Built-in switch

KSB1-S





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FOOT SWITCH

HRF-HD8 Series

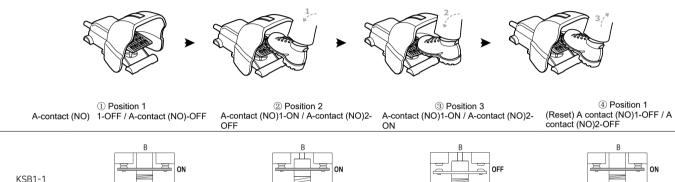
3 position (HRF-HD8S212)

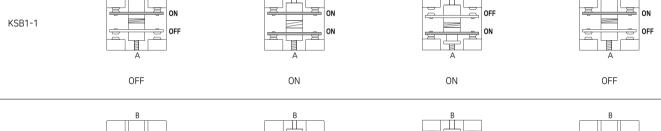
It is a 3 position control system using a step-stopper and two contact blocks under the pedal, and multi-control is possible with one footswitch. Ex) The second position resets the readiness or starts the machine, and the third position starts or stops the machine, etc.

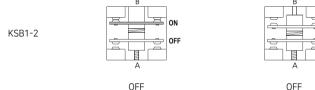


Stopper

Action flowchart





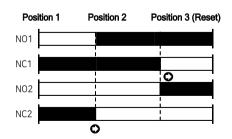






Position 3: 15 kg-f minimum

Contact flowchart Built-in switch







3 Part

Self-sustaining (HRF-HD8S311)

Suitable for frequent continuous motion or continuous motion processes, reducing operator fatigue \rightarrow increasing productivity (pressing the pedal for emergency reset results in a quick stop).

Action flowchart



① Position 1

② Position 2 (self-sustaining)

3 Position 3

Position 1(Reset)

Initial state
Contact B (NC)-on / Contact A
(NO)-off



With the push operation B contact (NC) is turned OFF and A contact (NO) is ON (self-sustaining state that remains ON even when the foot is removed from the pedal). self-sustaining state)



Press pedal again to release magnetic hold (B contact (NC) - on / A contact (NO) - off)



Initial state

Contact flowchart

Built-in switch





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FOOT SWITCH

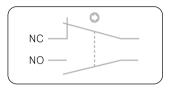
HRF-HD8 Series

Types of Contact Blocks

Micro limit switch type contact block

- 1. forced disconnect function for contacts meeting EN60947 standard (B contact (NC) only)
- 2. 20A/250VAC large contact capacity
- 3. 1 million electrical life cycles
- 4. 24k gold-plated contacts

Micro limit switch schematic















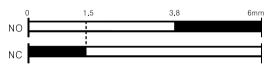
Contact flowchart



Type where contact A is turned ON first, then contact B is turned OFF, only applicable to safety-reset type

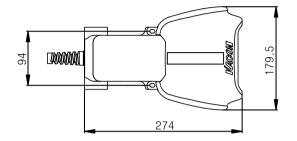
Contact is ON

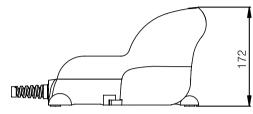
KSB1 / KSB1-A



Type where B contact is turned OFF first and A contact is turned ON, applicable to basic type & self-sustaining type

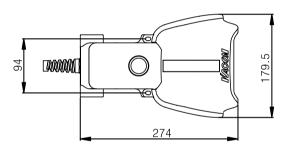
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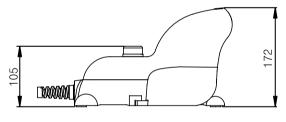






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3 Part

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