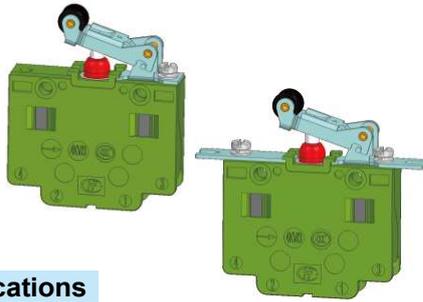


# HFW847

# SNAP-ACTION SWITCHES



File No.:  
2019010305152343



### Features

- Bridge contact, Positive opening operation, Wipe action
- Magnetic blowout
- Electrical isolation
- Meets GB/T 14048.5(IEC 60947) reinforce insulation
- Meets GB/T 21413(IEC 60077)reinforce insulation

### Typical Applications

Rail transit vehicles, such as button switch, toggle switch, door system, master controller

**RoHS compliant**

### CONTACT DATA

Contact arrangement		Zb
Contact resistance <sup>1)</sup>		100mΩ max.
Contact material		Silver alloy
Contact load	Inductive	110VDC/1.0A 230VAC/1.5A
	Resistive	110VDC/1.0A
Heating current		10A
Mechanical durability		5×10 <sup>6</sup> OPS
Electrical endurance	Inductive	110VDC/1.0A, 2×10 <sup>5</sup> OPS
	Resistive	110VDC/1.0A, 6×10 <sup>5</sup> OPS

**Notes:**1) The data shown above are initial values.

### CHARACTERISTICS

Insulation resistance	> 5MΩ(500VDC)
Dielectric strength	1890VAC 60s
Impulse voltage	2500VAC(1.2/50μs)
Vibration resistance	70 m/s <sup>2</sup> (5Hz to 150Hz)
Shock resistance	300 m/s <sup>2</sup>
Relative humidity	98%RH, 40°C
Temperature range	-40 °C to 85 °C
Termination	Screw
Unit weight	20g to 40g
Construction	No dustproof, Dustproof, Plastic sealed

**Notes:**1) The data shown above are initial values.

### ACTUATOR POSITION

Unit: mm

Free position <sup>1)</sup>	Operating position <sup>1)</sup>	Release position <sup>1)</sup>	The travel position for positive opening operation <sup>1)</sup>	Total travel position <sup>1)</sup>
8.85±0.15	6.6±0.25	8.0±0.25	4.2	3.9
20.25±0.35	16.9±0.5	19.0±0.5	13.5	13

**Notes:**1) The data shown above are initial values;

2) To ensure the function of the switches, please make sure that there is gap between customer's actuator and roller lever (or push button) when the switches is on free position, and actuation of the switches at least exceed the specified positive opening travel when the switches is operated.



HONGFA RELAY

ISO9001, IATF16949, ISO14001, ISO45001, IECQ QC 080000 CERTIFIED

2024 Rev. 1.00

## ORDERING INFORMATION

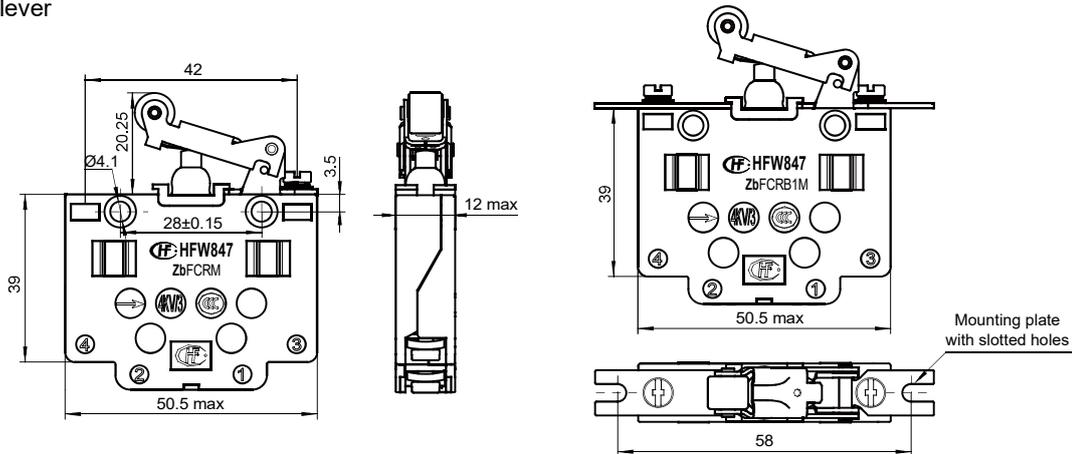
Type	HFW847 / <input type="checkbox"/>		<input type="checkbox"/>				
Contact arrangement	Zb: Z-SPDT-DB						
Construction	Nil: No dustproof    F: Dustproof		S: Plastic sealed				
Termination	C: Screw						
Actuator	Nil: Push button			R: Roller lever			
Installation method	Nil: No mounting plate B1: Mounting plate with slotted holes B2: Mounting plate with round holes						
Magnetic blowout	Nil: No magnetic blowout			M: With magnetic blowout			
Special code	XXX: Customer special requiremen		Nil: Standard				

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND INSTALLATION DIMENSIONS

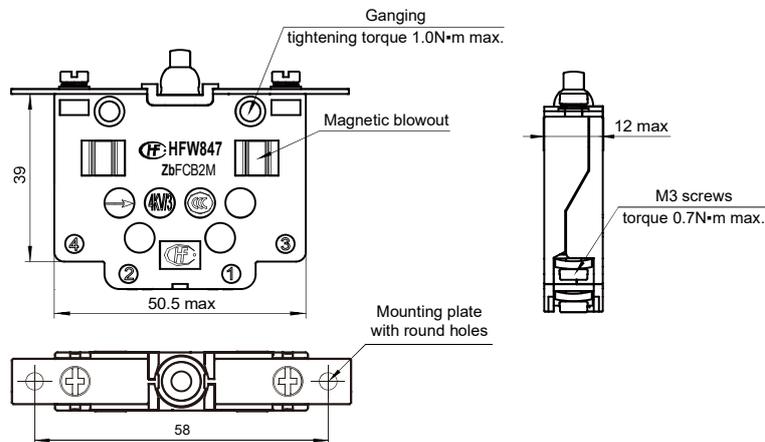
Unit: mm

### Outline Dimensions

Roller lever



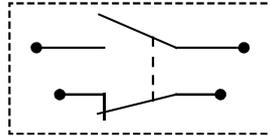
Push button



## OUTLINE DIMENSIONS, WIRING DIAGRAM AND INSTALLATION DIMENSIONS

Unit: mm

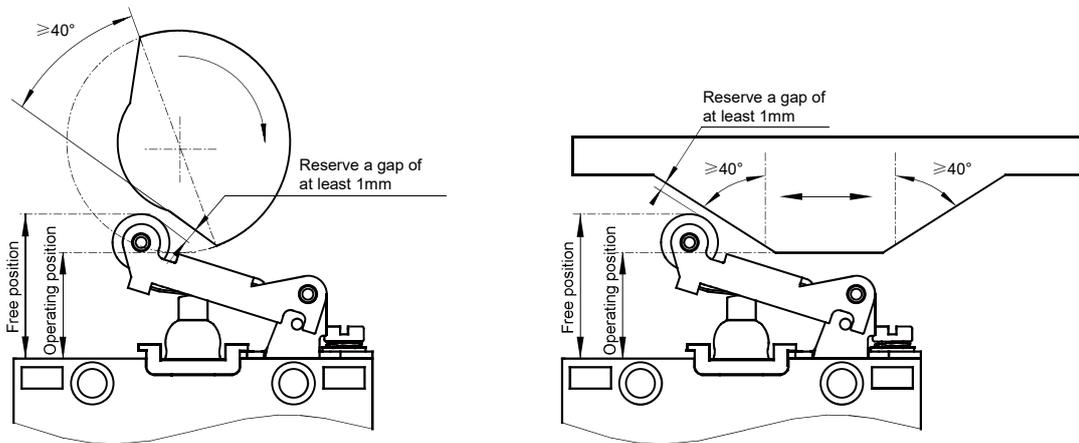
### Wiring Diagram



## OUTLINE DIMENSIONS, WIRING DIAGRAM AND INSTALLATION DIMENSIONS

Unit: mm

### Installation Dimensions



#### Precautions For Use:

- 1) When mounting the switches, please make sure that at least 2 positions are fastened, and compliant to the specified torque.
- 2) Please avoid tilting the screw when mounting, in order to prevent mechanical tension on the housing.
- 3) To ensure the function of the switches, please make sure that there is gap between customer's actuator and roller lever (or push button) when the switches is on free position, and actuation of the switches at least exceed the specified positive opening travel when the switches is operated.
- 4) To prevent mechanical destruction of the switches, please make sure that actuation of the switches does not exceed the specified total travel position.
- 5) When using the versions with magnets, if necessary please consult the polarity with Hongfa's engineer.
- 6) Cleaning agents, adhesives, solvents, or screw-retaining varnish must be compatible with polycarbonate. Never use chemicals not compatible with polycarbonate.
- 7) It is necessary to use insulating plates when ganging or mounting the switches on uninsulated surfaces.
- 8) Snap-action switches should be mounted by qualified professional staff only.

#### Disclaimer

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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