

Weld-On Sockets for Heater, Float Switches

Horizontal, Vertical

Weld-On Sockets for Heater

MSHTS (PF Thread)

Material: SUS304

Weld-On Sockets

Part Number	Unit Price
MSHTS	

Ordering Example

Part Number: MSHTS

Example

Float Switches

FLOSK (Horizontal)

Specifications FLOSK

Usage	Water, Oil, General Liquid
Operating Range (Specific Gravity)	0.8 or More
Pressure Resistance	0.49MPa
Heat Resistance Temperature	-20°C~80°C
Contact Capacity	10W DC/AC
Contact Type	Contact Point

FLOST (Vertical)

Specifications FLOST

Usage	liquid such as water, oil and other
Operating Range (Specific Gravity)	0.8 or More
Pressure Resistance	1MPa
Heat Resistance Temperature	0°C~120°C
Contact Capacity	50W DC/AC
Contact Type	Contact Point

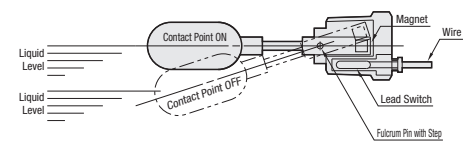
Material: Rod - Stem - Float Portion: SUS304

Part Number	No.	R (PT) / G (PF)	Lead Wire Length	L	L ₁	Mass (g)	Unit Price
FLOSK	80	R1 1/4	300	-	-	500	1 ~ 3 pc (s)
FLOST	2	G1/8	200	170	65		
	3		300	270	85		
	4		400	370	105		

For orders larger than indicated quantity, please request a quotation.

Principle of Operation

FLOSK (Horizontal)
The float moves according to changes in the liquid level. When the magnet comes close to the reed switch (high liquid level), the reed switch will be activated. When the liquid level falls, the contact point will be off again.



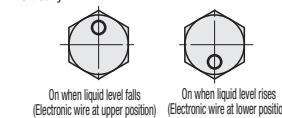
FLOST (Vertical)
As the liquid level falls and the upper part of the float reaches L₁, the contact point turns off. The contact point is where the upper part of the float overlaps with the L₁ dimension.

Features

These switches are designed as alarm or signal of water-level for liquids such as water and oil. By combining with a power supply interrupt circuit, it can be used as safety circuit to prevent liquid heaters from dry-running.

Cautions on Installation (FLOSK)

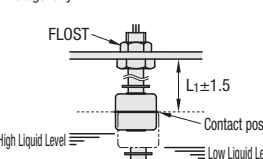
Install horizontally. The electrical wire should exit vertically.



Confirm that there is no liquid leakage before use. Avoid installing in places where the float cannot move smoothly. When pouring liquid, do not splash it on the body of this product. After the wires are connected, observe the liquid level with eyes and confirm the output before actual use.

Cautions on Installation (FLOST)

Float may not move properly when mounted diagonally.



Note that, for some of the types shown here, order might be unable to be received by the MISUMI Indonesia offices.

Far Infrared Ceramic Plate Heaters, Far Infrared Plate Heaters

Far Infrared Ceramic Plate Heaters

Far Infrared Plate Heaters

Material: SUS304

Type	Material			Accessory
	Heater	Element	Lead Wire	
MCHN (Standard)	Ceramics			Bracket (SUS304)
MCHNN (Heat Insulating Highly-efficient Type)	Ceramic Heat Insulation Material	NCHW2	Glass Wool Coating	
MCHNNS (Heat Insulating Highly-efficiency Type with Built-in Temperature Sensor)				

MCHNP

Material: Plate Frame : SUS304
Plate Surface : Aluminum + Far Infrared Coating
Thermocouple: K Thermocouple (4030S only)
Terminal: Terminal for Power Supply

Sensor is attached to the center of the heater.

Far Infrared Ceramic Plate Heaters

Part Number	Type	No.	A	B	C	(a)	(b)	(c)	W (Electric Power)	V (Voltage)	Max. Surface Temperature (°C)	Emission Wavelength (µm)	Unit Price		
													MCHN	MCHNN	MCHNNS
MCHN MCHNN MCHNNS		1	60	245		20 (18)	25 (21)	35 (32)	400	200	600	2~20			
		2			45 (48)				600	Single-phase	680				
		3	122 (125)	122 (125)		23 (8)	25 (14)	38 (25)	400		600				
		4							600		680				

Values in () are for MCHN.

Far Infrared Plate Heaters

Part Number	Type	No.	A	B	a	b	W (Electric Power)	V (Voltage)	Max. Surface Temperature (°C)	Thermocouple Used	Weight (kg)	Unit Price
MCHNP	4030	4030S	400	300	368	268	1000	200 Single-phase	250	K Thermocouple	6.0	

Ordering Example: MCHN4

Features

- MISUMI's ceramic plate heaters are highly-efficient far infrared heaters.
- The far infrared ray uniformly heats the surface and interior of the object.
- This is little affected by aging, and retains high efficiency for a long time.
- Lightweight, clean with no particle generation, and excels in thermal response.

Heat Insulating Highly-efficient Type

Heat insulating material is embedded in conventional ceramic plate heaters. Heat insulation effect by air and heat insulating material enables less heat transfer and conduction to the backside of the heater, which enhances heat emission from heater surface. (Refer to Increased Temperature Properties Graph)

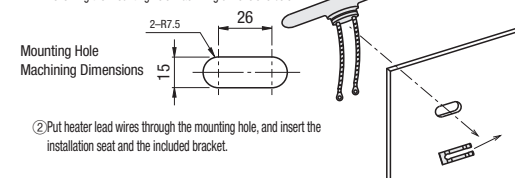
Heat Insulating Highly-efficient Type with Built-in Temperature Sensor
K Thermocouple is attached to measure the heater surface temperature. Suitable when the heater temperature control is required.

Far Infrared Plate Heaters

Large plate heater of 400x300 enables uniform heating of large area surfaces. Temperature unevenness will be smaller compared to combining conventional ceramic plate heaters.

How to Mount (Far Infrared Ceramic Plate Heaters)

- Decide the location of mounting the heater, and drill a hole following the mounting hole machining dimensions below.



Mounting plate thickness should be within 1 ~ 2mm.

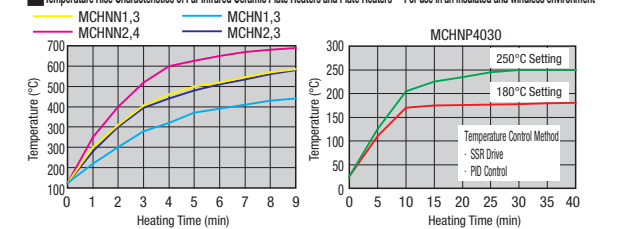
Precautions for Use

Do not use in places with high humidity. Short may result from such high humidity.

Usage

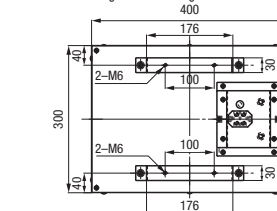
Suitable for clean heating as follows: LED industry, semiconductor industry, food industry, biotechnology industry and heating, burning, drying, softening, preheating, hardening, aging, heat retention of the plastic molding process.

Temperature Rise Characteristics of Far Infrared Ceramic Plate Heaters and Plate Heaters *For use in an insulated and windless environment



Mounting Method (Far Infrared Plate Heaters)

Back Mounting Dimension Diagram for Far Infrared Plate Heaters



Decide the heater mounting location, and drill a hole for M6. (Decide the exit for the heater power supply wires and drill a hole if necessary.)