imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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Honeywell

Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new Interactive Catalog. The Interactive Catalog is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



Click this icon to try the new Interactive Catalog.

Sensing and Control

Honeywell Inc. 11 West Spring Street Freeport, Illinois 61032

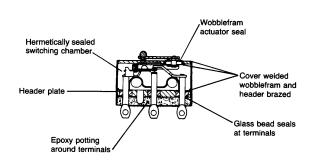
HM Series

Basic Switches Hermetically Sealed



GENERAL INFORMATION

HM switches are not generally recommended for 115 VAC, 60 Hz. If you have a 60 Hz application in the milliamp range, or applications that require the switch to function electrically during exposure to sub-freezing temperatures, contact the 800 number for special design variations that are available.



ELECTRICAL RATINGS

Circuitry			Electrical Rating Code				
Single-Pole Double-Throw	•	Η	1 amp res., 0.25 amp ind., 28 vdc.				
Single-Pole Double-Throw	•	I	4 amps res., 2 amps ind., 0.5 amps lamp load, 115 vac, 400 Hz. 4 amps res., 2 amps ind., 1 amp lamp load, 28 vdc				
Single-Pole Double-Throw	• • •	J	1/2 amp res., 1/4 amp ind. (sea level or 70,000 ft.), 28 vdc				
Single-Pole Double-Throw	• • •	К	3 amps res., 1 amp ind. (sea level or 70,000 ft.), 28 vdc 1 amp res. or ind. (sea level), 115 vac., 400 Hz.				
Single-Pole Double-Throw	•	L	3 amp res., 1 amp ind., 28 vdc 1 amp res., 1 amp ind., 115 vac, 400 Hz.				

APPLICATION NOTES

- Honeywell MICRO SWITCH does *not* recommend the use of silver cadmium oxide switch contacts in non-arcing loads. Non-arcing loads are generally loads less than 12 volts and/or 0.5 amp. Catalog listings in the 5, 6, 15, and 16HM Series use silver cadmium oxide contacts. If you have specific questions, contact the MICRO SWITCH Application Center at 1-800-537-6945.
- 2. For applications involving non-arcing loads, catalog listings in the 9, 10, 19 and 20HM Series are recommended.
- 3. The 1, 2, 5, and 6HM Series are recommended for use only in 3 to 4 amp range applications.

FEATURES

- Hermetically sealed per enclosure design symbol 5, MIL-S-8805
- Power load switching capability up to 4 amperes, 28 VDC and 115 VAC, 400 Hz
- Temperature tolerance from -85°F to +250°F (-65°C to +121°C)
- High temperature construction for use from -85°F to +500°F (-65°C to +260°C)
- Variety of auxiliary actuators
- Choice of terminal styles
- Gold contacts for special applications
- Military standard construction with listings on the MIL-S-8805 qualified products list.

Basic Switches Hermetically Sealed

Characteristics: O.F. — Operating Force; R.F. — Release Force; P.T. — Pretravel; O.T. — Overtravel; D.T. — Differential Travel; O.P. — Operating Position.

ORDER GUIDE

				Operating Characteristics						
	Catalog Listing	Recommended For	Electrical Rating Code	O.F. max. Newtons ounces	R.F. min. Newtons ounces	P.T. max. mm inches	O.T. min. mm inches	D.T. max. mm inches	O.P. mm inches ±.015 (0,38 mm)	
anna a	11HM1 (MS27216-5)	Most applications. Exceeds MIL-S-8805 requirements for shock and vibration.	К	1,95 7	0,28 1	0,76 .030	0,08 .003	0,15 .006	8,38 . 330	
Fig. 1	13HM1	Applications requiring gold contacts	н	1,95 7	0,28 1	0,76 .030	0,08 .003	0,15 .006	8,38 .330	
	15HM1	Operating in temperatures to 300°F (149°C)	L	1,95 7	0,28 1	0,76 .030	0,08 .003	0,15 .006	8,38 .330	
	9HM1 (MS27216-6)	Bifurcated gold contacts	J	1,95 7	0,28 1	0,76 .030	0,08 .003	0,15 .006	8,38 .330	
• •	2HM19-1 (MS27216-2)	MIL-S-8805 application requirements 1 ft. (305mm) leads	I	1,95 7	0,28 1	0,76 .030	0,08 .003	0,15 .006	8,38 . 330	
Fig. 2	2HM19-5 (MS27216-4)	5 foot (1524mm) long leads	I	1,95 7	0,28 1	0,76 .030	0,08 .003	0,15 .006	8,38 . 330	
Fig. 3	16HM1-1	High temperature to 500°F (260°C) flat spring	L	1,95 7	0,28 1	0,76 . 030	0,08 . 003	0,15 . 006	8,38 .330	
Fig. 4	15HM2	Operating in temperatures to +500°F (260°C) with weld tab termination. No potting.	L	1,95 7	0,28 1	0,76 .030	0,08 . 003	0,15 . 006	8,38 .330	

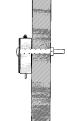
HM MOUNTING

A force spreading plate is recommended to reduce the chance of product damage due to excessive mounting force.

MOUNTING PLATE

19PA137-HM





ealed/High mperature

Torque on #2 mounting screws must be restricted to 1.5 inch pounds max. to prevent switch damage. The force spreading mounting plate used as shown will allow up to 2.5 inch pounds of mounting torque.

Basic Switches Hermetically Sealed

Characteristics: O.F. — Operating Force; R.F. — Release Force; P.T. — Pretravel; O.T. — Overtravel; D.T. — Differential Travel; O.P. — Operating Position; F.P. — Free Position.

			Operating Characteristics with Actuator Mounted on a 6HM1-1							
Catalog Listing	Description	Temp. (Max.)	O.F. max. Newtons ounces	R.F. min. Newtons ounces	P.T. max. mm inches	O.T. min. mm inches	D.T. max. mm inches	O.P. mm inches	F.P. mm inches	
JS-254	Leaf	500°F (260°C)	2,50 9	0,56 2	_	0,76 .030	0,76 .030	8,64 .340 approx.	12,2 .480 approx.	
JS-151	Roller leaf	500°F (260°C)	2,50 9	0,56 2		0,76 .030	0,76 .030	14 .550 approx.	17,5 . 690 approx.	
JS-307	Straight lever	500°F (260°C)	0,42 1.5	0,03 .11	3,18 . 125	0,64 . 025	1,42 . 056	10,3 . 406 approx .		
		. , ,			approx.					
JS-308	Roller lever	500°F (260°C)	0,42 1.5	0,03 .11	3,18 .125 approx.	0,64 .025	1,42 .056	14,3 .562 approx.		
	Listing JS-254 JS-151 JS-307	Listing Description JS-254 Leaf JS-151 Roller leaf JS-307 Straight lever	ListingDescription(Max.)JS-254Leaf500°F (260°C)JS-151Roller leaf500°F (260°C)JS-307Straight lever500°F (260°C)JS-308Roller lever500°F	Catalog ListingDescriptionTemp. (Max.)O.F. max. Newtons ouncesJS-254Leaf $500^\circ F$ ($260^\circ C)$ $2,50$ 9 JS-151Roller leaf $500^\circ F$ ($260^\circ C)$ $2,50$ 9 JS-307Straight lever $260^\circ C$ $500^\circ F$ $260^\circ C)0,421.5JS-308Roller lever500^\circ F260^\circ C)0,421.5$	Catalog Listing Description Temp. (Max.) O.F. max. Newtons ounces R.F. min. Newtons ounces JS-254 Leaf 500°F (260°C) 2,50 0,56 2 JS-151 Roller leaf 500°F (260°C) 2,50 0,56 2 JS-151 Roller leaf 500°F (260°C) 2,50 0,56 2 JS-307 Straight lever 500°F (260°C) 0,42 0,03 .11 JS-308 Roller lever 500°F 0.42 0.03	Catalog Listing Description Temp. (Max.) O.F. max. Newtons ounces R.F. min. Newtons ounces P.T. max. mm inches JS-254 Leaf 500°F (260°C) 2,50 9 0,56 2 JS-151 Roller leaf 500°F (260°C) 2,50 9 0,56 2 JS-151 Roller leaf 500°F (260°C) 2,50 9 0,56 2 JS-307 Straight lever (260°C) 500°F (260°C) 0,42 1.5 0,03 .11 3,18 .125 approx. JS-308 Roller lever 500°F (260°C) 0,42 1.5 0,03 .11 3,18 .125	Catalog Listing Description Temp. (Max.) O.F. max. Newtons ounces R.F. min. Newtons ounces P.T. max. mm inches O.T. min. mm inches JS-254 Leaf 500°F (260°C) 2,50 9 0,56 2 — 0,76 .030 JS-151 Roller leaf 500°F (260°C) 2,50 9 0,56 2 — 0,76 .030 JS-151 Roller leaf 500°F (260°C) 2,50 9 0,56 2 — 0,76 .030 JS-307 Straight lever 500°F (260°C) 0,42 1.5 0,03 .11 3,18 .125 approx. 0,64 .025 JS-308 Roller lever 500°F (260°C) 0,42 1.5 0,03 .11 3,18 .025 0,64	Catalog Listing Description Temp. (Max.) O.F. max. Newtons ounces R.F. min. Newtons ounces PT. max. mm inches O.T. min. mm inches D.T. max. mm inches JS-254 Leaf 500°F (260°C) 2,50 0,56 — 0,76 0,76 JS-254 Leaf 500°F (260°C) 2,50 0,56 — 0,76 0,76 0,76 JS-151 Roller leaf 500°F (260°C) 2,50 0,56 — 0,76 0,76 0,76 JS-307 Straight lever 500°F (260°C) 0,42 0,03 3,18 0,64 1,42 JS-308 Roller lever 500°F (260°C) 0,42 0,03 3,18 0,64 1,42 JS-308 Roller lever 500°F (260°C) 0,42 0,03 3,18 0,64 1,42	Catalog Listing Description Temp, (Max.) Newtons ounces mm inches mm inches mm inches mm inches mm inches mm inches JS-254 Leaf 500°F (260°C) 2,50 0,56 - 0,76 0,76 340 approx. JS-151 Roller leaf 500°F (260°C) 2,50 0,56 - 0,76 0,76 340 approx. JS-151 Roller leaf 500°F (260°C) 2,50 0,56 - 0,76 0,76 340 approx. JS-307 Straight lever 500°F (260°C) 0,42 0,03 3,18 0,64 1,42 10,3 JS-308 Roller lever 500°F (260°C) 0,42 0,03 3,18 0,64 1,42 10,3 JS-308 Roller lever 500°F (260°C) 0,42 0,03 3,18 0,64 1,42 14,3	

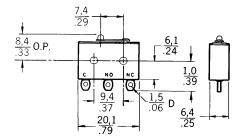
AUXILIARY ACTUATORS FOR HM SWITCHES ORDER GUIDE (Switches are not included)

MOUNTING TORQUE:

JS-254 2.5 inch pounds all others 1.5 inch pounds See optional mounting plate – previous page. All standard JS actuators in the SM Section of Catalog 10 can be used with the HM line. However, hardware, insulator, and oil impregnated roller supplied with these actuators may not provide the required service at temperatures above $250^{\circ}F$ ($121^{\circ}C$).

Basic Switches Hermetically Sealed

MOUNTING DIMENSIONS (For reference only)



MOUNTING HOLES WILL ACCEPT PINS OR SCREWS OF 1,9/.08 DIA

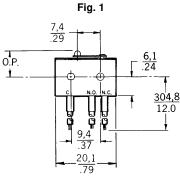
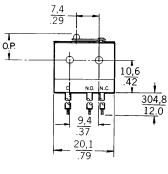


Fig. 3





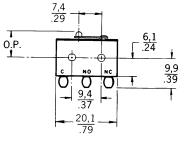


Fig. 4

7,9

.31

6,9 .27

3.6

.14

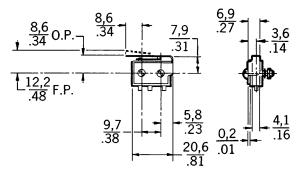
5,7 .22

14,0

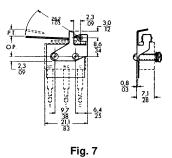
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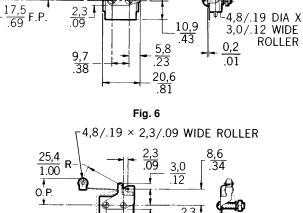
0.P.⁻

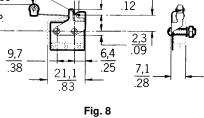
AUXILIARY ACTUATORS











0,0 = mmKey:

0.00 = inches

/High