

Interactive Catalog Supplements Catalog PDFs

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This PDF catalog information was published in November 2000.



Sensing and Control
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Sensing and Control

Honeywell Inc.

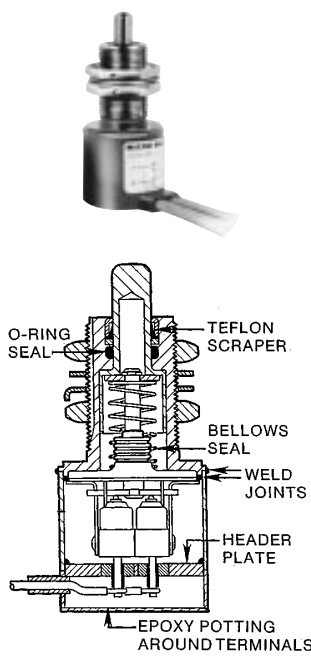
11 West Spring Street

Freeport, IL 61032

www.honeywell.com/sensing

Position Sensors
Hermetically Sealed Limit Switch

HE Series



GENERAL INFORMATION

True hermetic sealing with metal-to-metal, glass-to-metal construction assures maximum seal effectiveness for exceptionally long periods of time despite continuous changes in atmospheric pressures and temperatures.

1HE1-6 is directly interchangeable with the 1EN1-6 (MS24331-1) environment-proof switches, and has the same operating characteristics, physical dimensions, and electrical capacity. This switch features corrosion resistance, small size, one hole wire-lock mounting, and MIL-W-22759/7 leadwire.

Most EN type actuators can be provided on HE switches. Contact MICRO SWITCH for more information.

FEATURES

- Sealing: Hermetic sealing per MIL-S-8805, hermetic symbol 5
- 1HE1-6 qualified to military specification: MIL-S-8805/80
- Vibration: 10 to 81 Hz at .060 in. (1,52mm) D.A. 81 to 2000 Hz at 20 gs
- Shock: 200 g, .007 second, half sine pulse
- Strength of actuating means: 250 lbs. (1112N)
- Strength of mounting means: 400 in. lbs. (45,2 Nm) - 1HE1-6, 200 in. lbs. -602/622 HE
- Also meets sand and dust, explosion, icing, minimum current, and moisture resistance requirements
- Temperature range: -67°F to +257°F (-55°C to +125°C)
- Weight: 7.3 oz. (207 g) max 1HE1-6, 6.5 oz. (184g) max. 602HE1-6 (including 6 ft. (1,8m) leadwires)
- Circuitry: Two or four single-pole, double-throw circuits
- Meets or exceeds mechanical and electrical life as defined in MIL-S-8805
- Modifications: Other leadwire types and lengths are available. Receptacle termination is also possible

ELECTRICAL RATINGS amps at sea level and 100,000 feet (amps)

28 VDC	1HE1-6	602/622HE1-6 604/624HE1-6
Resistive	5	7
Inductive	3	4
Motor	4	4

Gold contacts can be provided with ½ amp inductive and 1 amp resistive at 28 VDC electrical rating.

Position Sensors

Position Sensors

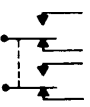
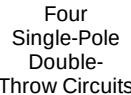
Hermetically Sealed Limit Switch

HE Series



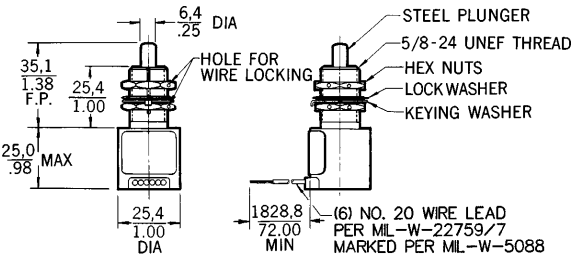
HE ORDER GUIDE

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

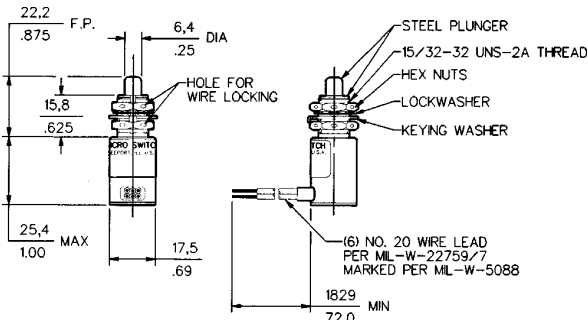
Circuitry	Catalog Listing	Actuator	Characteristics				
			O.F. Newtons lbs.	R.F. min. Newtons lbs.	P.T. max. mm in.	O.T. min. mm in.	D.T. max. mm in.
 Two Single-Pole Double- Throw Circuits	1HE1-6 (MS8805/80-01)	Plunger	26,7-53,4 6-12	17,8 4	1,02 .040	6,35 .250	0,51 .020
	602HE1-6	Plunger	22,2-53,4 5-12	13,3 3	1,02 .040	3,18 .125	0,51 .020
	622HE1-6	Roller Plunger	22,2-53,4 5-12	13,3 3	1,02 .040	3,18 .125	0,51 .020
 Four Single-Pole Double- Throw Circuits	604HE1-6	Plunger	26,7-53,4 6-12	17,8 4	1,02 .040	3,18 .125	0,51 .020
	624HE1-6	Roller Plunger	22,2-53,4 5-12	13,3 3	1,02 .040	3,18 .125	0,51 .020

HE MOUNTING DIMENSIONS (For reference only)

1HE1-6

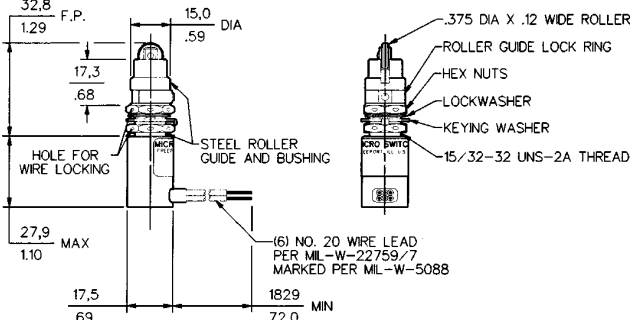


602HE1-6



604HE1-6 has same dimensions as 602HE1-6, except housing dia. is 1.0/25,4; and housing height is 1.2/30,5.

622HE1-6



624HE1-6 has same dimensions as 622HE1-6, except housing dia. is 1.0/25,4; and housing height is 1.2/30,5.

Key: 0,0 = mm
0.00 = inches

Mouser Electronics

Authorized Distributor

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Honeywell:

[31HE101-6](#) [31HE102-6](#) [31HE123-6](#) [38HE13-CA](#) [39HE6-R](#) [424HE23-R](#) [424HE23-RB](#) [424HE24-RB](#) [426HE13-8](#)
[602HE106-6](#) [602HE126-6B](#) [602HE148-RB](#) [602HE5-RB](#) [602HE5-RB1](#) [602HE6-6](#) [602HE8-11](#) [604HE161](#) [604HE162](#)
[604HE222-6B](#) [604HE224-RB](#) [604HE3-6](#) [622HE10](#) [622HE9](#) [624HE1-6](#) [624HE222-6B](#) [624HE223-6B](#) [624HE25-R](#)
[622HE223-6](#) [424HE56-RB](#) [624HE227-R](#) [404HE222-6](#) [624HE17-RB](#) [622HE222-6](#) [426HE16-8](#)