



Representative photograph, actual product appearance may vary.

Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.

## 1HM1

**HM Series Hermetically Sealed Basic Switch, Single Pole Double Throw Circuitry, 5 A at 28 Vdc, Integral Lever Actuator, Solder Termination**

### Features

- Hermetically sealed per MIL-S-8805, design symbol 5
- Broad temperature tolerance range of -65 °C to 121 °C [-85 °F to 250 °F]
- High temperature construction for use in a range of -65 °C to 260 °C [-85 °F to 500 °F]
- MIL-PFR-8805 qualified listing
- Not sensitive to changes in altitude or pressure
- Compact size, light weight
- Gold contacts available
- Choice of actuation and termination

### Typical Applications

- Adverse gas or vapor environments
- Oil drilling installations
- Marine environments
- Submarines and stationary undersea equipment
- Refrigeration units
- Aircraft and spacecraft
- Earth moving machinery
- Desert vehicles
- Cement mills

### Description

HM Series Hermetically Sealed Basic Switches contain contacts in a sealed chamber. A gas-tight seal is maintained while transmitting force and motion to the switch mechanism through a metal diaphragm. HM Series Hermetically Sealed Switches are not generally recommended for 115 Vac, 60 Hz. If you have a 60 Hz application in the mA range, or applications that require the switch to function electrically during exposure to sub-freezing temperatures, contact us for special design variations that are available.

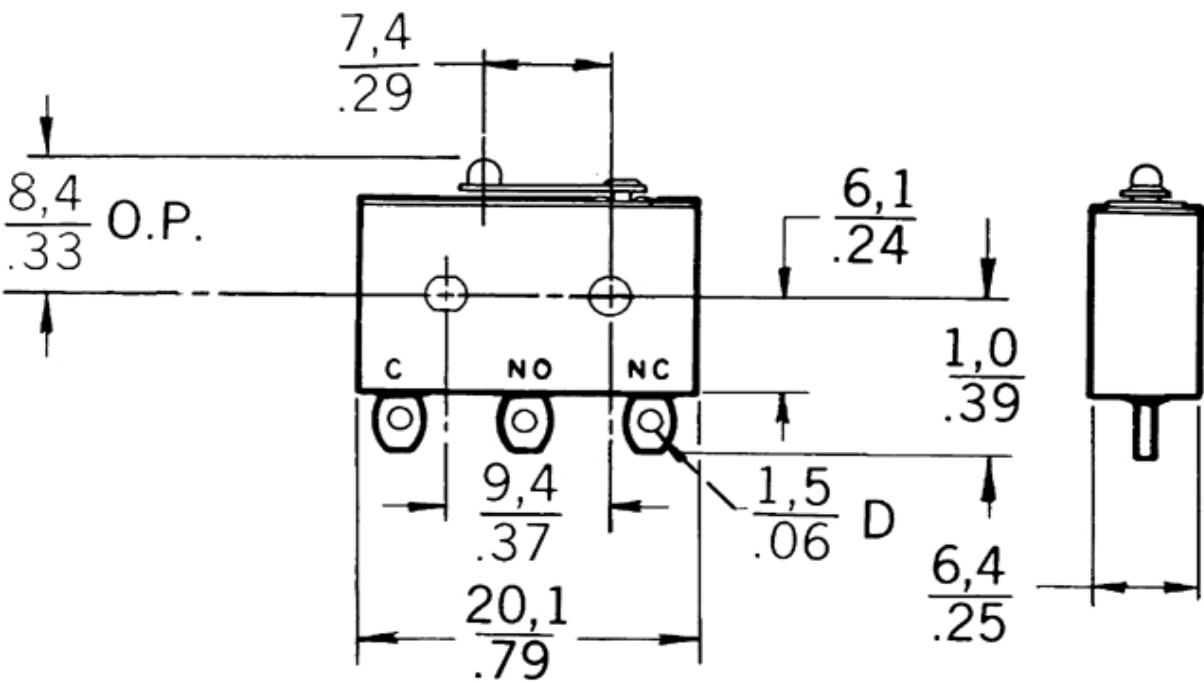
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Product Specifications	
Switch Type	Subminiature 12,7 mm H x 6,35 mm W x 20,3 mm L [0.5 in H x 0.25 in W x 0.8 in L]
Sealed	Yes, Hermetic
Ampere Rating	5 A
Circuitry	Single Pole Double Throw (SPDT)
Actuator	Integral Lever
Termination	Solder
Operating Temperature Range	-184 °C to 121 °C [-300 °F to 250 °F]
Voltage	28 Vdc
Contact Type	Silver
Operating Force (O.F.)	1,95 N [7 oz] max.
Release Force (R.F.)	0,28 N [1.0 oz] min.
Pretravel (P.T.)	0,76 mm [0.030 in] max.
Overtravel (O.T.)	0,08 mm [0.003 in] min.
Differential Travel (D.T.)	0,15 mm [0.006 in] max.
Operating Position (O.P.)	8,38 mm [0.33 in]
Housing Material	Stainless Steel
Mounting Screw Size	22,1 mm [0.087 in]
Mounting Centers	9,53 mm ± 0,05 mm [0.375 in ± 0.002 in]
Maximum Tightening Torque	0,16 N m [1.5 in lb]
Weight	6,35 g [0.22 oz] max.
Package Height	18,29 mm [0.72 in]
Package Width	6,35 mm [0.25 in]
Package Length	22.35 mm [0.88 in]
Recommended For	Most applications
Availability	Global
UNSPSC Code	30211905
UNSPSC Commodity	30211905 Snap switches
Series Name	HM Series

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

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**⚠ WARNING**  
**PERSONAL INJURY**  
 DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

**⚠ WARNING**  
**MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**