COMUS Group

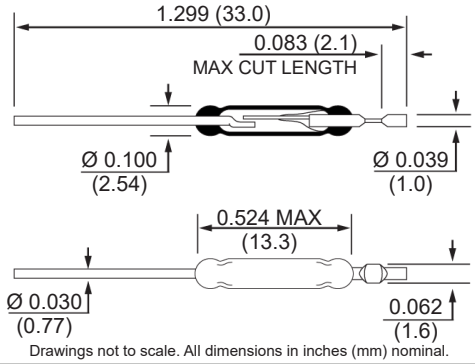
Part Number: MH4
Mercury Wetted Reed Switch - Make Contact
Product Data Sheet

PICTURE

Pb - FREE
Plating and Glass are not containing any lead.

NOTE:
Vertical mounted required
(±30° from vertical)

DIMENSIONS



Drawings not to scale. All dimensions in inches (mm) nominal.

ORDERING INFORMATION

PART NUMBER MH4 10 20 45

- Switch Type
- Insulation Resistance
  10:10^{10} Ohms Min.
  12:10^{12} Ohms Min.
- Operate AT - Range
  - Max. Operate AT
  - Min. Operate AT

Example: MH4 10 20 45
Insulation resistance 10^{10} Ohms Min.
Operate value is between 20 and 45 AT.

SPECIFICATION

Contact Form			A - Make Contact
Contact Material			Hg
Switching Voltage	DC / Peak AC Resistance	MAX	500(*) Volts
Switching Current	DC / Peak AC Resistance	MAX	2.0 Amps
Carry Current (24 h)	DC / Peak AC Resistance	MAX	3.0 Amps
Contact Rating	DC / Peak AC Resistance	MAX	50 Watts
Operating Frequency		MAX	200 Hz
Life Expectancy	1.0V 10mA 50V, 1A 500V, 100mA	MIN MIN MIN	1000 x 10^6 Ops 2 x 10^6 Ops 50 x 10^6 Ops
Operate AT Range		MIN-MAX	20 - 45 AT
Release AT Range		MIN	8 AT
Insulation Resistance	500V, 25°C 40% RH	MIN	10^{10} Ohms
Capacitance	Across Open Contacts		0.3 pF
Dielectric Strength	Between Contacts	MIN	1.5 KV*
Operate Time	1.5 times Operate at 20Hz Sq. Wave 50% DC	MAX	2.0 msec
Release Time	Zener-Diode Suppression	MAX	1.5 msec
Drain Time		MAX	5 sec
Static Contact Resistance	50mV, 10mA	MAX	30 mOhms
Hg Content			0.040 g
Storage Temperature		DEG	-40 to +125°C
Operating Temperature		DEG	-38 to +125°C
Soldering Temperature	<10 sec at 260°C	DEG	+260
Vibration Resistance (Survival)	10Hz - 500Hz	MAX	10 g
Shock Resistance (Survival)	11 ± 1ms, 1/2 Sine Wave	MAX	30 g
Weight			0.24 grams

NOTE 1: Measured in testcoil NARM 1 or EN119000-03 / Gap position in coil: 2mm below center. The given Operate value has a tolerance of ±2AT
NOTE 2: All parameters are at 25°C unless otherwise stated.
(*) 1000 VDC (5W) - It might switch 1000V but limited to 5 watts.
* 1.5KV is a reference min. voltage at 20 AT. At higher AT values higher breakdown voltage can be expected.

As part of the company policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on this product range and the details of our full design and manufacturing service. All products are supplied to our standard conditions of sale unless otherwise agreed in writing.

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