

TESTCOIL MEASUREMENT

Type	Measure Test Coil	Gap Position in Coil	Operate Value Tolerance
HG	EN119000-19 with resistor in serie to 1000 Ohms.	N.A.	± 3 AT.
HGW	EN119000-15, test system 2.	N.A.	± 2 AT.
HGZ	EN119000-09	3.5mm above center	± 3 AT.
MH4	NARM I or EN119000-03	2mm below center	± 2 AT.
MH4 500083	NARM I or EN119000-03	2mm below center	± 2 AT.
MH5	EN119000-09	Centered	± 2 AT.

ORDERING INFORMATION

- PART NUMBER HG 07 120 180
- Switch Type
 - Insulation Resistance
 - Operate AT - Range
 - Max. Operate AT.
 - Min. Operate AT.

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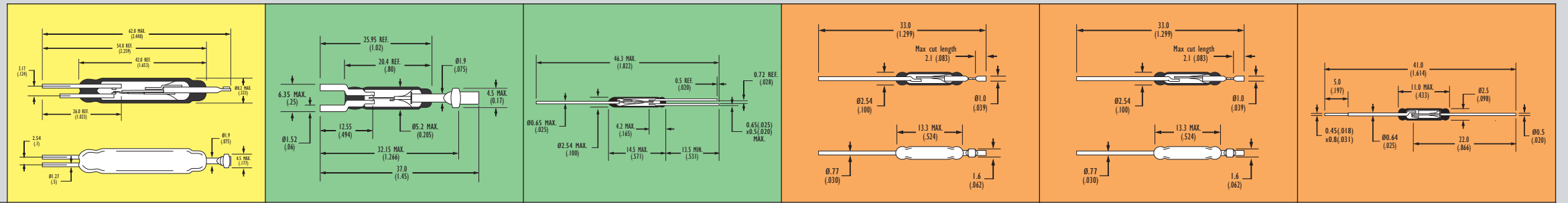
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Mercury Wetted Reed Switches



We also have a large network of worldwide agents. These can be seen on any of our websites, or on our company profile brochure.

MERCURY WETTED REED SWITCHES



	Type				HG	HGW	HGZ	MH4	MH4 500083	MH5	
	Contact Form				D - Make before break - Contact	C - Break before make- Contact ^(*)	C - Break before make - Contact	A - Make Contact	A - Make Contact	A - Make Contact	
CONTACT RATINGS	Switching Voltage	DC / Peak AC Resistive	Volts	Max.	500	500	500	500 ^(*)	1500	500 ^(*)	
	Switching Current	DC / Peak AC Resistive	Amps	Max.	5	2	2	2	2	2	
	Carry Current (24 h)	DC / Peak AC Resistive	Amps	Max.	10	5	3	3	3	2	
	Contact Rating	DC / Peak AC Resistive	Watts	Max.	250	100	50	50	50	50	
	Operating Frequency		Hz	Max.	80	200	100	200	200	300	
	Life expectancy	1.0V, 10mA	x10 ⁴ Ops	Min.	1000	1000	1000	1000	1000	1000	200
		50V, 1A	x10 ⁴ Ops	Min.	5	3	2	2	5	1	
		500V, 100A	x10 ⁴ Ops	Min.	50	50	50	50	50	5	
		48V, 100A	x10 ⁴ Ops	Min.						50	
	Operate AT Range		AT	Min - Max.	120 - 180	N.A.	35 - 60	20 - 35	20 - 40	25 - 60	
Release AT Range		AT	Min.	30	N.A.	10	8	8	12		
Delta		AT	Min - Max.	N.A.	30 - 60	N.A.	N.A.	N.A.	N.A.		
Insulation Resistance	500V, 25°C 40% RH	Ohms	Min.	10 ⁷	10 ⁹	10 ⁹	10 ¹⁰	10 ¹³	10 ¹⁰		
Capacitance	Across Open Contacts	pF		2	0.7	0.5	0.3	0.3	0.3		
Dielectric Strength	Between Contacts	VAC	Min.	2500 ^(*)	2000	1000	1500	2000 VDC	1500		
Operate Time	1.5 times Operate at 20Hz Sq. Wave 50% DC	msec	Max.	7	1.5	3	2	2	0.85 Typ. - 1.2 Max.		
Release Time	Zener-Diode Suppresion	msec	Max.	6	1.5	2	1.5	1.5	0.8 Typ - 1 Max.		
Transfer Time		usec	Min - Max.	N.A.	50 - 300	50 - 700	N.A.	N.A.	N.A.		
Bridging Time		usec	Min - Max.	150 - 900	N.A.	N.A.	N.A.	N.A.	N.A.		
Drain Time		sec	Max.	15	5	5	5	5	N.A.		
Static Contact Resistance	50mV, 10mA	mOhms	Max.	30	30	25	30	30	30		
Contact Material				Hg	Hg	Hg	Hg	Hg	Hg		
Hg Content		gm		3	0.32	0.072	0.040	0.040	0.010		
ENVIRONMENTAL RATINGS	Storage Temperature		°C	-40 +125	-40 +125	-40 +125	-40 +125	-40 +125	-40 +125		
	Operating Temperature		°C	-38 +125	-38 +125	-38 +125	-38 +125	-38 +125	-38 +125		
	Soldering Temperature	<10 sec st 260°C	°C	+260	+260	+260	+260	+260	+260		
	Vibration Resistance (Survival)	10Hz - 500Hz	g	Max.	10	10	10	10	10	20	
	Shock Resistance (Survival)	11 ± 1ms, 1/2 Sine Wave	g	Max.	30	30	30	30	30	50	
	Weight		gm		3.8	1.16	0.28	0.24	0.24	0.2	

Pb - FREE

Plating and Glass do not contain any lead.

Notes:

^(*) 8000 VDC option

^(*) Form D - Make before break - Contact, also available

^(*) 1000 VDC (5W) - It might switch 1000 V but limited to 5 watts.

