

**Part Number: MSS2 / MVS2 Series**  
**Instrumentation Grade Hg DIP Reed Relays - 1 Form A**  
**Product Data Sheet**

**PICTURE**



**FEATURES**

- Stable low contact resistance, zero bounce
- All position mounting (MSS2)
- Vertical mounting (MVS2)
- Long life > 1 billion operations
- High power 50 Watt contacts
- Optional diode
- Molded industry standard package
- Replaces 3585 and 3582 series

**ORDERING INFORMATION**

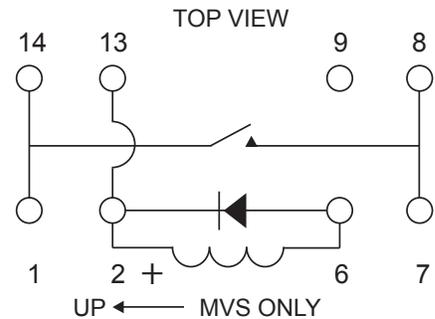
Series	Form	Coil	Options
MSS2 or MVS2	1A	05 12 24	B = Diode (pins 2/13-6, cathode pin 2)

**Part Number Example:** MSS2XXXXX  
 MSS21A12B = MSS2 1A with 12 volt coil and Diode (Also P/N 3585.1210.123)

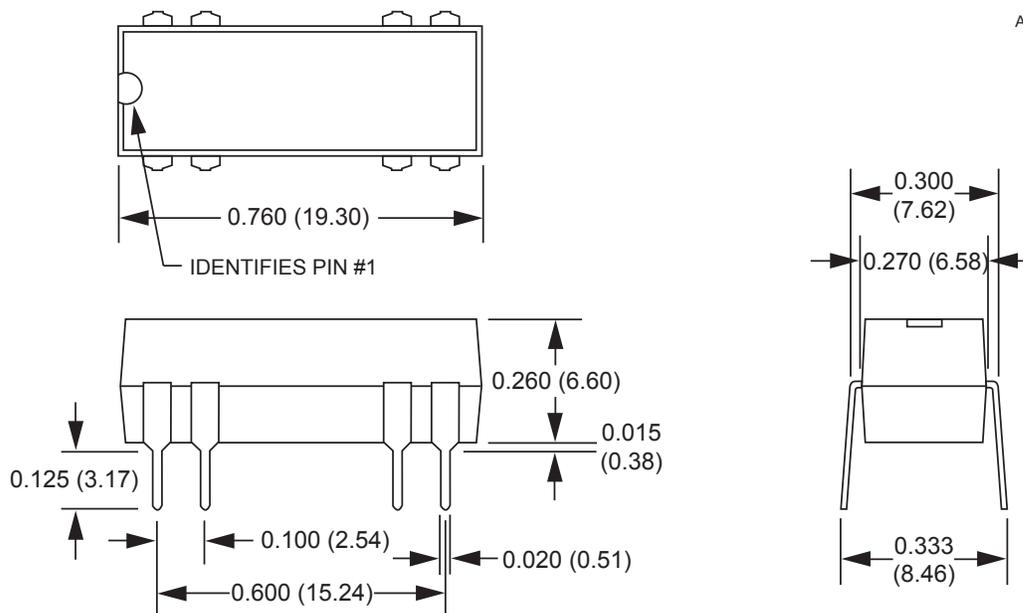
Series	Coil	Options
3585.1210. or 3582.7210.	05 12 24	1 = without 2 = Electrostatic Shield (pin 9) 3 = with Diode (pins 2/13-6, cathode pin 2) 4 = Electrostatic Shield with Diode

**Part Number Example:** 3585.1210.XXX  
 3585.1210.123 = 3585.1210. with 12 volt coil and Diode (Also P/N MSS21A12B)

**SCHEMATIC**



**DIMENSIONS**



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

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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**Instrumentation Grade Hg DIP Reed Relays - 1 Form A**  
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<b>MSS2 COIL DATA-STANDARD TYPE 1 FORM A (at 20 °C) (ALL POSITION)</b>				
NOMINAL VOLTAGE DC±10%[V]	COIL RESISTANCE ±10% (Ω)	MAX OPERATE VOLTAGE (VDC)	MIN RELEASE VOLTAGE (VDC)	MAX COIL VOLTAGE (VDC)
5	140	3.75	0.5	10
12	500	9	1	20
24	2150	18	2	40

<b>MVS2 COIL DATA-STANDARD TYPE 1 FORM A (at 20 °C) (VERTICAL MOUNT)</b>				
NOMINAL VOLTAGE DC±10%[V]	COIL RESISTANCE ±10% (Ω)	MAX OPERATE VOLTAGE (VDC)	MIN RELEASE VOLTAGE (VDC)	MAX COIL VOLTAGE (VDC)
5	105	3.75	0.5	10
12	500	9	1	20
24	2150	18	2	40

<b>CONTACT RATING</b>		
RELAY MODEL	MSS2 (All Position)	MVS2 (Vertical Mount)
Max Switching Power	50 W	50 W
Max Switching Voltage	500 VDC	500 VDC
Max Switching Current	2 A	2 A
Max Carry Current	2 A	3 A

<b>SPECIFICATION</b>		
RELAY MODEL	MSS2 (All Position)	MVS2 (Vertical Mount)
Contact Resistance (Initial)	MAX 100 mΩ	
Operate Time - Including bounce (Typical)	1.75 ms	2.5 ms
Release Time (Typical)	1.5 ms	2.0 ms
Insulation Resistance @ 100V, 20°C, 40% RH (MIN)	10 <sup>10</sup> Ω	
Dielectric Strength: Across Contacts (DC/Peak AC Resistive, Min)	1500 VDC	2000 VDC
Dielectric Strength: Contacts to All Points (DC/Peak AC Resistive, Min)	1500 VDC	
Capacitance Between Open Contacts (Typical)	1.5 pF	0.7 pF
Capacitance Between Open Contacts to Coil (Typical)	3.0 pF	1.2 pF
Vibration	10 Gs	
Shock Resistance	30 Gs	
Operating Temperature	-25° to +85°C	
Storage Temperature	-35° to +100°C	
Life Expectancy of Electrical @ 1.0V / 10mA (Typical)	500 x 10 <sup>6</sup>	1000 x 10 <sup>6</sup>
Contact Material	Hg	
Hg Content (mg)	16	40

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