

Part Number: MSS4 / MVS4 Series
Instrumentation Grade Hg SIP Reed Relay - 1 Form A
Product Data Sheet

PICTURE



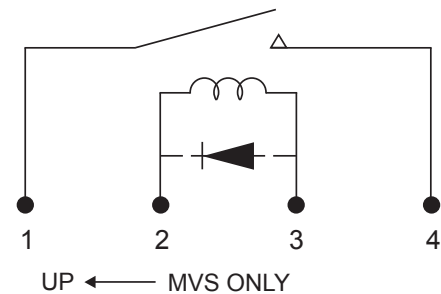
FEATURES

- Stable low contact resistance, zero bounce
- All position mounting (MSS4 only)
- Vertical mounting (MVS4)
- Long life > 1 billion operations
- High power contacts (50 watts)
- Optional Internal diode
- Molded industry standard package
- Replaces 3585 and 3582 series

ORDERING INFORMATION

Series	Form	Coil	Options
MSS4 or MVS4	1A	05 12 24	B = Diode (pins 2 & 3, cathode pin 2)

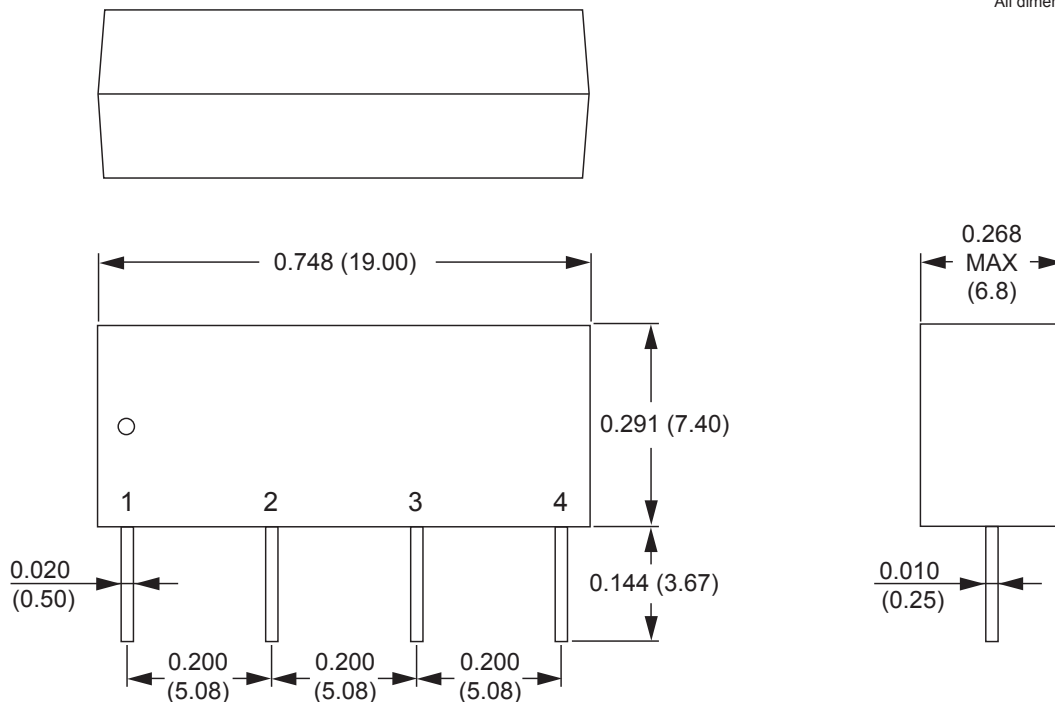
SCHEMATIC



Part Number Example: MSS4XXXXX
 MSS41A12B = MSS4 1A with 12 volt coil and Diode
 (formerly Comus P/N 3585.1331.123)

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.

Phone: (1) 973 777 6900

www.comus-intl.com

Fax: (1) 973 777 8405

Belgium: + 32 (0)12 390400 - Comus Europe Ltd (Assemtech) UK: +44 (0) 1255 862236 - Germany: +49 (0)911 923 15 943 - Netherlands: +31(0)45 54 39 345 - India: +(91) (44) 43219090
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MSS4 COIL DATA-STANDARD TYPE 1 FORM A (at 20 °C) (ALL POSITION)				
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

MVS4 COIL DATA-STANDARD TYPE 1 FORM A (at 20 °C) (VERTICAL MOUNT)				
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

CONTACT RATING		
RELAY MODEL	MSS4 (All Position)	MVS4 (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	3 A	3 A

SPECIFICATION		
RELAY MODEL	MSS4 (All Position)	MVS4 (Vertical Mount)
Contact Resistance (Initial)	MAX 100 mΩ	
Operate Time - Including bounce (Typical)	1.2 ms	1.5 ms
Release Time (Typical)	1.0 ms	1.0 ms
Insulation Resistance (+20°C, 40% RH, 100 VDC, Min)	10 ¹⁰ Ω	
Dielectric Strength: Across Contacts (DC/Peak AC Resistive, Min)	2000 VDC	
Dielectric Strength: Contacts to Coil (DC/Peak AC Resistive, Min)	1400 VDC	
Capacitance Between Open Contacts (Typical)	1.3 pF	0.8 pF
Capacitance Between Open Contacts to Coil (Typical)	3.0 pF	2.2 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 ⁶	1000 x 10 ⁶
Contact Material	Hg	
Hg Content (mg)	16	40

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