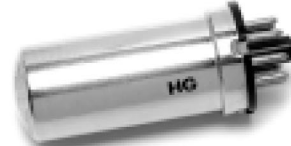


## HG SERIES REED RELAYS

HGRM • HGR2M • HGR2MT • HGSR • HGSM  
HGWR • HGWM • HGW2MT • HG • HGM • HGJM • HGJ2MT



### DESCRIPTION

The HGRM is available in single side and bistable adjustments for all types of industrial as well as classic telecom and datacom applications. A potted relay body with a metal can guarantees a double sealing technology, standard in all relays. The powerful switching rating (100W-500V-2A) and the input-output 1kVAC isolation make it an all-around product. Form-C/break-before-make and Form-D/make-before-break are available.

The HGJM and HGWM relay families are designed for industrial use, especially for process control and data loggers. Both families feature fast operating speeds, Common Open Time and combine very low noise and thermal EMF. They are ideal relays for flying capacitance type as well as for direct reading process controls. These relays offer a magnetic and an electro-static shield for minimizing all external influences. A life of billions of operations, low & stable contact resistance and a 1KVAC input-output isolation make these families the highest industrial standard of their kind. No other relay offers so much in such a small package.

### FEATURES

- Stable contact resistance over life
- 100W - 500V - 2A switching power
- Common Open Time (some series)
- Zero load switching
- High insulation resistance
- Long life  $>1 \times 10^9$
- Single side and bistable adjustments
- Bounce-free operation
- Low noise and thermal emf (HGWM & HGJM)
- Form-C & D
- Load handling capability from signal level to 100VA (500 VDC or 2A maximum load switching capability, HGSM & HGSR)
- Can switch up to 80Hz (HGSM, HGSR)
- Octal plug in high performance reed relay multi-pole 1 & 2 Form-D
- 250 VA switching capability
- Operating rates up to 200Hz
- Magnetically shielded

### APPROVALS

- UL recognition
- CSA certification (HGRM)
- FCC68 compatible (HGRM & HGJM)

### APPLICATIONS

- Process control
- Data loggers
- Traffic control systems
- Signalling
- Industrial
- PLCs
- Metering
- Telecom (HGRM)

### RATINGS (@ 25° C)

| Parameter           | Min | Typ | Max | Unit  |
|---------------------|-----|-----|-----|-------|
| Switching Voltage   |     |     | 500 | Volts |
| Switching Current   |     |     |     |       |
| HGJM/HGWM/HGWR      |     |     | 2   | Amps  |
| HGRM/HGSR/HGSM      |     |     | 2   | Amps  |
| HGM/HG              |     |     | 5   | Amps  |
| Carry Current       |     |     |     |       |
| HGJM/HGWM/HGWR      |     |     | 5   | Amps  |
| HGRM/HGSR/HGSM      |     |     | 5   | Amps  |
| HGM/HG              |     |     | 10  | Amps  |
| Switching Frequency |     |     |     |       |
| HGJM/HGWM/HGWR      |     |     | 200 | Hz    |
| HGRM/HGSR/HGSM      |     |     | 200 | Hz    |
| HGM/HG              |     |     | 80  | Hz    |
| Contact Resistance  |     |     | 30  | mΩ    |

(See detailed specifications for more information.)





## HG SERIES REED RELAYS

HGRM • HGR2M • HGR2MT • HGSR • HGSM  
HGWR • HGWM • HGW2MT • HG • HGM • HGJM • HGJ2MT

### SPECIFICATIONS

| All parameters are at 25°C unless otherwise stated. |                                                 |        | HGJM<br>HGJ2MT<br>1 & 2-Form-C |      |      | HGWR<br>1-Form-C |      |      | HGSM<br>HGW2MT<br>1 & 2-Form-C |      |      |                     |
|-----------------------------------------------------|-------------------------------------------------|--------|--------------------------------|------|------|------------------|------|------|--------------------------------|------|------|---------------------|
| PARAMETER                                           | CONDITIONS                                      | SYMBOL | MIN                            | TYP  | MAX  | MIN              | TYP  | MAX  | MIN                            | TYP  | MAX  | UNITS               |
| Contact Ratings                                     |                                                 |        |                                |      |      |                  |      |      |                                |      |      |                     |
| Switching Voltage                                   | Max DC/PeakAC Resistive                         | VL     | -                              | -    | 500  | -                | -    | 500  | -                              | -    | 500  | Volts               |
| Switching Current                                   | Max DC/PeakAC Resistive                         | IL     | -                              | -    | 2    | -                | -    | 2    | -                              | -    | 2    | Amps                |
| Carry Current                                       | Max DC/PeakAC Resistive                         | Ic     | -                              | -    | 5    | -                | -    | 5    | -                              | -    | 5    | Amps                |
| Contact Rating                                      | Max DC/PeakAC Resistive                         | -      | -                              | -    | 100  | -                | -    | 100  | -                              | -    | 100  | Watts               |
| Life Expectancy                                     | Signal Level 1.0V 10mA                          | -      | 1000                           | 2000 | -    | 1000             | 2000 | -    | 1000                           | 2000 | -    | x10 <sup>6</sup> Op |
| Static Contact Resistance                           | 50mV, 10mA at 100Hz,                            | CR     | -                              | -    | 30   | -                | -    | 30   | -                              | -    | 30   | mΩ                  |
| Contact Material                                    |                                                 | -      | -                              | Hg   | -    | -                | Hg   | -    | -                              | Hg   | -    | -                   |
| Mercury Content                                     |                                                 | -      | -                              | 0.32 | -    | -                | 0.32 | -    | -                              | 0.32 | -    | grams               |
| Relay Specifications                                |                                                 |        |                                |      |      |                  |      |      |                                |      |      |                     |
| Insulation Resistance                               | Between all isolated pins at 100V, 25°C, 40% RH | IR     | 10 <sup>9</sup>                | -    | -    | 10 <sup>9</sup>  | -    | -    | 10 <sup>9</sup>                | -    | -    | Ω                   |
| Capacitance <sup>(1)</sup>                          | Across Open Contacts                            | -      | -                              | -    | 4    | -                | -    | 4    | -                              | -    | 5    | pF                  |
|                                                     | Open Contact to Coil                            | -      | -                              | -    | 10   | -                | -    | 7.5  | -                              | -    | 12   | pF                  |
| Dielectric Strength <sup>(2)</sup>                  | Between Contacts                                | -      | 1400                           | -    | -    | 1400             | -    | -    | 1400                           | -    | -    | VDC/PeakAC          |
|                                                     | Contacts to Coil                                | I/O    | 1400                           | -    | -    | 1400             | -    | -    | 1400                           | -    | -    | VDC/PeakAC          |
| Operate Time,<br>no bounce                          | At Nominal Coil Voltage<br>10Hz Square Wave     | TOP    | -                              | -    | 1.25 | -                | -    | 2    | -                              | -    | 1.25 | ms                  |
| Transfer Time (Form C)                              |                                                 | -      | 50                             | -    | 500  | 50               | -    | 500  | 50                             | -    | 500  | μs                  |
| Release Time                                        | Zener-Diode Suppression                         | TREL   | -                              | -    | 1.25 | -                | -    | 2    | -                              | -    | 1.25 | ms                  |
| Environmental Ratings                               |                                                 |        |                                |      |      |                  |      |      |                                |      |      |                     |
| Storage Temperature                                 |                                                 | TA     | -40                            | -    | +105 | -40              | -    | +105 | -40                            | -    | +105 | °C                  |
| Operating Temperature                               |                                                 | TO     | -38                            | -    | +85  | -38              | -    | +85  | -38                            | -    | +85  | °C                  |
| Soldering Temperature                               | Applied to pins, 10 sec. max.                   | -      | -                              | -    | +260 | -                | -    | +260 | -                              | -    | +260 | °C                  |
| Vibration Resistance<br>(Survival)                  | 10Hz - 500Hz                                    | G      | -                              | -    | 5    | -                | -    | 5    | -                              | -    | 5    | Gs                  |
| Shock Resistance<br>(Survival)                      | 11±1ms, 1/2 Sine Wave                           | S      | -                              | -    | 30   | -                | -    | 30   | -                              | -    | 30   | Gs                  |
| Weight                                              |                                                 |        | -                              | 12.5 | -    | -                | 10.6 | -    | -                              | 9.2  | -    | grams               |

<sup>(1)</sup> No Shield

<sup>(2)</sup> 2800VDC available



## HG SERIES REED RELAYS

HGRM • HGR2M • HGR2MT • HGSR • HGSM  
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### SPECIFICATIONS

All parameters are at 25°C unless otherwise stated.

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|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------|------|------|------|------|------|------|----------------------|
| <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |                                                  |        |      |      |      |      |      |      |                      |
| PARAMETER                                                                                                                 | CONDITIONS                                       | SYMBOL | MIN  | TYP  | MAX  | MIN  | TYP  | MAX  | UNITS                |
| Contact Ratings                                                                                                           |                                                  |        |      |      |      |      |      |      |                      |
| Switching Voltage                                                                                                         | Max DC/PeakAC Resistive                          | VL     | -    | -    | 500  | -    | -    | 500  | Volts                |
| Switching Current                                                                                                         | Max DC/PeakAC Resistive                          | IL     | -    | -    | 5    | -    | -    | 5    | Amps                 |
| Carry Current                                                                                                             | Max DC/PeakAC Resistive                          | Ic     | -    | -    | 10   | -    | -    | 10   | Amps                 |
| Contact Rating                                                                                                            | Max DC/PeakAC Resistive                          |        | -    | -    | 250  | -    | -    | 250  | Watts                |
| Life Expectancy                                                                                                           | Signal Level 1.0V 10mA                           | -      | 1000 | 2000 | -    | 1000 | 2000 | -    | x10 <sup>6</sup> Ops |
| Static Contact Resistance                                                                                                 | 50mV, 10mA                                       | CR     | -    | -    | 30   | -    | -    | 30   | mΩ                   |
| Contact Material                                                                                                          |                                                  | -      | -    | Hg   | -    | -    | Hg   | -    | -                    |
| Mercury Content                                                                                                           |                                                  | -      | -    | 3    | -    | -    | 3    | -    | grams                |
| Relay Specifications                                                                                                      |                                                  |        |      |      |      |      |      |      |                      |
| Insulation Resistance                                                                                                     | Between all isolated pins at 100V, 25° C, 40% RH | IR     | 107  | -    | -    | 107  | -    | -    | Ω                    |
| Capacitance <sup>(1)</sup>                                                                                                | Across Open Contacts                             | -      | -    | -    | 8.5  | -    | -    | 5    | pF                   |
| Dielectric Strength <sup>(2)</sup>                                                                                        | Open Contact to Coil                             | -      | -    | -    | 17.5 | -    | -    | 5.5  | pF                   |
|                                                                                                                           | Between Contacts                                 | -      | 1400 | -    | -    | 1400 | -    | -    | VDC/PeakAC           |
|                                                                                                                           | Contacts to Coil                                 | I/O    | 1400 | -    | -    | 1400 | -    | -    | VDC/PeakAC           |
| Operate Time, no bounce                                                                                                   | At Nominal Coil Voltage 10Hz Square Wave         | TOP    | -    | -    | 7    | -    | -    | 5    | ms                   |
| Transfer Time (Form C)                                                                                                    |                                                  | -      | -    | N/A  | -    | -    | N/A  | -    | μs                   |
| Bridging Time (Form D)                                                                                                    |                                                  | -      | -    | -    | 1000 | -    | -    | 1000 | μs                   |
| Release Time                                                                                                              | No Diode Suppression                             | TREL   | -    | -    | 4    | -    | -    | 4.7  | ms                   |
| Environmental Ratings                                                                                                     |                                                  |        |      |      |      |      |      |      |                      |
| Storage Temperature                                                                                                       | Applied to pins, 10 sec. max.<br>10Hz - 500Hz    | TA     | -65  | -    | +105 | -65  | -    | +105 | °C                   |
| Operating Temperature                                                                                                     |                                                  | To     | -38  | -    | +105 | -38  | -    | +105 | °C                   |
| Soldering Temperature                                                                                                     |                                                  |        | -    | -    | -    | -    | -    | -    | °C                   |
| Vibration Resistance (Survival)                                                                                           |                                                  | G      | -    | -    | 10   | -    | -    | 10   | Gs                   |
| Shock Resistance (Survival)                                                                                               |                                                  | S      | -    | -    | 30   | -    | -    | 30   | Gs                   |
| Weight                                                                                                                    | 11±1ms, 1/2 Sine Wave                            | -      | -    | 115  | -    | -    | 86   | -    | grams                |

(1) No Shield

(2) 2800VDC available



## HG SERIES REED RELAYS

HGRM • HGR2M • HGR2MT • HGSR • HGSM  
HGWR • HGWM • HGW2MT • HG • HGM • HGJM • HGJ2MT

### COIL SPECIFICATIONS

| Units<br>Conditions<br>Part # | Contact Form   | Coil Voltage |     |      | Coil Resistance |       |       | Operate Voltage      |     |       |
|-------------------------------|----------------|--------------|-----|------|-----------------|-------|-------|----------------------|-----|-------|
|                               |                | Volts        |     |      | $\Omega$        |       |       | Volts                |     |       |
|                               |                |              |     |      | ±10%, 25°C      |       |       | Must operate by 25°C |     |       |
|                               |                | Min          | Typ | Max  | Min             | Typ   | Max   | Min                  | Typ | Max   |
| HGJM 51111 K00                | 1-Form-C/SSS   |              | 5   | 15   | 112.5           | 125   | 137.5 |                      |     | 2.9   |
| HGJM 51111 P00                | 1-Form-C/SSS   |              | 12  | 35   | 616.5           | 685   | 753.5 |                      |     | 7.1   |
| HGJM 51111 T00                | 1-Form-C/SSS   |              | 24  | 68   | 2385            | 2650  | 2915  |                      |     | 14    |
| HGJM 51111 W00                | 1-Form-C/SSS   |              | 48  | 125  | 8865            | 9850  | 10835 |                      |     | 29    |
| HGJ2MT 54211 G00              | 2-Form-C/SSS   |              | 5   | 14   | 49.5            | 55    | 60.5  |                      |     | 2.6   |
| HGJ2MT 54211 L00              | 2-Form-C/SSS   |              | 12  | 36   | 333             | 370   | 407   |                      |     | 6.7   |
| HGJ2MT 54211 P00              | 2-Form-C/SSS   |              | 24  | 69   | 1233            | 1370  | 1507  |                      |     | 13    |
| HGWR 56211 H00                | 1-Form-C/SSS   |              | 3   | 5    | 23.4            | 26    | 28.6  |                      |     | 1.2   |
| HGWR 56211 L00                | 1-Form-C/SSS   |              | 6   | 12   | 117             | 130   | 143   |                      |     | 2.9   |
| HGWR 56211 P00                | 1-Form-C/SSS   |              | 12  | 20   | 360             | 400   | 440   |                      |     | 4.9   |
| HGWR 56211 T00                | 1-Form-C/SSS   |              | 24  | 38   | 1215            | 1350  | 1485  |                      |     | 10.1  |
| HGWR 56211 W00                | 1-Form-C/SSS   |              | 48  | 70   | 4050            | 4500  | 4950  |                      |     | 21.8  |
| HGWR 58211 T00                | 1-Form-C/BS    |              | 1.5 | 5    | 25.2            | 28    | 30.8  |                      |     | ±0.7  |
| HGWR 58211 P00                | 1-Form-C/BS    |              | 3   | 12   | 108             | 120   | 132   |                      |     | ±1.6  |
| HGWR 58211 L00                | 1-Form-C/BS    |              | 6   | 20   | 360             | 400   | 440   |                      |     | ±3.1  |
| HGWR 58211 H00                | 1-Form-C/BS    |              | 12  | 38   | 1215            | 1350  | 1485  |                      |     | ±6.7  |
| HGWR 58211 E00                | 1-Form-C/BS    |              | 24  | 70   | 4050            | 4500  | 4950  |                      |     | ±14.4 |
| HGWR 58212 N00                | 1-Form-C/BS/DC |              | 9   | 19   | 306             | 340   | 374   |                      |     | ±4.1  |
| HGWR 58212 P00                | 1-Form-C/BS/DC |              | 12  | 26   | 585             | 650   | 715   |                      |     | ±5.9  |
| HGWR 58212 T00                | 1-Form-C/BS/DC |              | 24  | 40   | 1350            | 1500  | 1650  |                      |     | ±10.4 |
| HGWM 51111 K00                | 1-Form-C/SSS   |              | 5   | 11   | 105.3           | 117   | 128.7 |                      |     | 2.9   |
| HGWM 51111 P00                | 1-Form-C/SSS   |              | 12  | 27   | 648             | 720   | 792   |                      |     | 7     |
| HGWM 51111 T00                | 1-Form-C/SSS   |              | 24  | 52   | 2457            | 2730  | 3003  |                      |     | 14    |
| HGWM 51111 W00                | 1-Form-C/SSS   |              | 48  | 100  | 9000            | 10000 | 11000 |                      |     | 28    |
| HGW2MT 54111 G00              | 2-Form-C/SSS   |              | 5   | 11   | 50.4            | 56    | 61.6  |                      |     | 2.9   |
| HGW2MT 54111 L00              | 2-Form-C/SSS   |              | 12  | 28   | 352.8           | 392   | 431.2 |                      |     | 7     |
| HGW2MT 54111 P00              | 2-Form-C/SSS   |              | 24  | 54   | 1296            | 1440  | 1584  |                      |     | 14    |
| HGRM 51111/55211 J00          | 1-Form-C/SSS   |              | 5   | 11   | 63              | 70    | 77    |                      |     | 1.8   |
| HGRM 51111/55211 N00          | 1-Form-C/SSS   |              | 12  | 28   | 391.5           | 435   | 478.5 |                      |     | 4.6   |
| HGRM 51111/55211 R00          | 1-Form-C/SSS   |              | 24  | 55   | 1575            | 1750  | 1925  |                      |     | 8.8   |
| HGRM 51111/55211 V00          | 1-Form-C/SSS   |              | 48  | 103  | 5490            | 6100  | 6710  |                      |     | 17    |
| HGR2MT 51111 F00              | 2-Form-C/SSS   |              | 5   | 11   | 33.3            | 37    | 40.7  |                      |     | 2     |
| HGR2MT 51111 K00              | 2-Form-C/SSS   |              | 12  | 30   | 225             | 250   | 275   |                      |     | 5     |
| HGR2MT 51111 N00              | 2-Form-C/SSS   |              | 24  | 56   | 783             | 870   | 957   |                      |     | 10    |
| HGR2M 53211 H00               | 2-Form-C/SSS   |              | 5   | 16   | 108             | 120   | 132   |                      |     | 2.65  |
| HGR2M 53211 M00               | 2-Form-C/SSS   |              | 12  | 42   | 702             | 780   | 858   |                      |     | 6.65  |
| HGR2M 53211 Q00               | 2-Form-C/SSS   |              | 24  | 81   | 2610            | 2900  | 3190  |                      |     | 12.2  |
| HGR2M 53211 T00               | 2-Form-C/SSS   |              | 48  | 164  | 10800           | 12000 | 13200 |                      |     | 26.5  |
| HGSR 51211 J00                | 1-Form-C/SSS   |              | 5   | 11   | 63              | 70    | 77    |                      |     | 1.8   |
| HGSR 51211 N00                | 1-Form-C/SSS   |              | 12  | 28   | 391.5           | 435   | 478.5 |                      |     | 4.6   |
| HGSR 51211 R00                | 1-Form-C/SSS   |              | 24  | 55   | 1575            | 1750  | 1925  |                      |     | 8.8   |
| HGSR 51211 V00                | 1-Form-C/SSS   |              | 48  | 103  | 5490            | 6100  | 6710  |                      |     | 17    |
| HGSM 51111 IC0                | 1-Form-C/SSS   |              | 5   | 22   | 302             | 335   | 369   |                      |     | 3.5   |
| HGSM 51111 K00                | 1-Form-C/SSS   |              | 5   | 16   | 126             | 140   | 154   |                      |     | 2.3   |
| HGSM 51111 P00                | 1-Form-C/SSS   |              | 12  | 41   | 846             | 940   | 1034  |                      |     | 6     |
| HGSM 51111 T00                | 1-Form-C/SSS   |              | 24  | 80   | 3258            | 3620  | 3982  |                      |     | 12    |
| HGSM 51111 V00                | 1-Form-C/SSS   |              | 48  | 122  | 7740            | 8600  | 9460  |                      |     | 19    |
| HG 11331 G00                  | 1-Form-D/SSS   |              | 5   | 8.3  | 31.5            | 35    | 38.5  |                      |     | 3.4   |
| HG 11331 K00                  | 1-Form-D/SSS   |              | 12  | 16.5 | 126             | 140   | 154   |                      |     | 7.1   |
| HG 11331 N00                  | 1-Form-D/SSS   |              | 24  | 34   | 522             | 580   | 638   |                      |     | 14    |
| HG 11331 R00                  | 1-Form-D/SSS   |              | 48  | 65   | 1935            | 2150  | 2365  |                      |     | 28    |
| HGM 11411 H00                 | 1-Form-D/SSS   |              | 5   | 6.4  | 18.63           | 20.7  | 22.77 |                      |     | 2.84  |
| HGM 11411 M00                 | 1-Form-D/SSS   |              | 12  | 16   | 115.2           | 128   | 140.8 |                      |     | 7.2   |
| HGM 11411 Q00                 | 1-Form-D/SSS   |              | 24  | 31   | 450             | 500   | 550   |                      |     | 14.9  |
| HGM 11411 T00                 | 1-Form-D/SSS   |              | 48  | 66   | 1953            | 2170  | 2387  |                      |     | 29.8  |
| HGPM 11441 M00                | 1-Form-D/SSS   |              | 5   | 16   | 115.2           | 128   | 140.8 |                      |     | 2.75  |
| HGPM 11441 R00                | 1-Form-D/SSS   |              | 12  | 39   | 703.8           | 782   | 860.2 |                      |     | 6.7   |
| HGPM 11441 U00                | 1-Form-D/SSS   |              | 24  | 79   | 2862            | 3180  | 3498  |                      |     | 13.8  |
| HGPM 11441 X00                | 1-Form-D/SSS   |              | 48  | 156  | 10980           | 12200 | 13420 |                      |     | 27    |

SSS: Single Side Stable Relay

BS: Bistable Relay

DC: Double Coil



## HG SERIES REED RELAYS

HGRM • HGR2M • HGR2MT • HGSR • HGSM  
HGWR • HGWM • HGW2MT • HG • HGM • HGJM • HGJ2MT

### COIL SPECIFICATIONS

|                      | Release Voltage     |     |     | Nominal Input Power |      |     | Options                                                                              |
|----------------------|---------------------|-----|-----|---------------------|------|-----|--------------------------------------------------------------------------------------|
| Units                | Volts               |     |     | mW                  |      |     |                                                                                      |
| Conditions           | Must release by 25° |     |     |                     |      |     |                                                                                      |
| Part #               | Min                 | Typ | Max | Min                 | Typ  | Max |                                                                                      |
| HGJM 51111 K00       | 0.61                |     |     |                     | 200  |     | Electrostatic Shield<br>Bistable Latching<br>IR: 10 <sup>11</sup>                    |
| HGJM 51111 P00       | 1.5                 |     |     |                     | 210  |     |                                                                                      |
| HGJM 51111 T00       | 3                   |     |     |                     | 217  |     |                                                                                      |
| HGJM 51111 W00       | 6                   |     |     |                     | 234  |     |                                                                                      |
| HGJ2MT 54211 G00     | 0.55                |     |     |                     | 455  |     | IR: 10 <sup>11</sup>                                                                 |
| HGJ2MT 54211 L00     | 1.4                 |     |     |                     | 389  |     |                                                                                      |
| HGJ2MT 54211 P00     | 2.7                 |     |     |                     | 420  |     |                                                                                      |
| HGWR 56211 H00       | 0.17                |     |     |                     | 346  |     |                                                                                      |
| HGWR 56211 L00       | 0.38                |     |     |                     | 277  |     | Form-D Contacts                                                                      |
| HGWR 56211 P00       | 0.65                |     |     |                     | 360  |     |                                                                                      |
| HGWR 56211 T00       | 1.46                |     |     |                     | 427  |     |                                                                                      |
| HGWR 56211 W00       | 3.2                 |     |     |                     | 512  |     |                                                                                      |
| HGWR 58211 T00       | ±0.25               |     |     |                     | 80   |     | Form-D Contacts                                                                      |
| HGWR 58211 P00       | ±0.56               |     |     |                     | 75   |     |                                                                                      |
| HGWR 58211 L00       | ±1.1                |     |     |                     | 90   |     |                                                                                      |
| HGWR 58211 H00       | ±2.2                |     |     |                     | 107  |     |                                                                                      |
| HGWR 58211 E00       | ±4.9                |     |     |                     | 128  |     |                                                                                      |
| HGWR 58212 N00       | ±1.3                |     |     |                     | 238  |     |                                                                                      |
| HGWR 58212 P00       | ±1.9                |     |     |                     | 222  |     |                                                                                      |
| HGWR 58212 T00       | ±3.4                |     |     |                     | 384  |     |                                                                                      |
| HGWM 51111 K00       | 0.52                |     |     |                     | 214  |     | Electrostatic Shield<br>Bistable Latching<br>Form-D Contacts<br>IR: 10 <sup>11</sup> |
| HGWM 51111 P00       | 1.3                 |     |     |                     | 200  |     |                                                                                      |
| HGWM 51111 T00       | 2.6                 |     |     |                     | 211  |     |                                                                                      |
| HGWM 51111 W00       | 5.2                 |     |     |                     | 230  |     |                                                                                      |
| HGW2MT 54111 G00     | 0.52                |     |     |                     | 446  |     | Electrostatic Shield<br>Form-D Contacts<br>IR: 10 <sup>11</sup>                      |
| HGW2MT 54111 L00     | 1.3                 |     |     |                     | 367  |     |                                                                                      |
| HGW2MT 54111 P00     | 2.6                 |     |     |                     | 400  |     |                                                                                      |
| HGRM 51111/55211 J00 | 0.44                |     |     |                     | 357  |     |                                                                                      |
| HGRM 51111/55211 N00 | 1.1                 |     |     |                     | 331  |     | Form-D Contacts                                                                      |
| HGRM 51111/55211 R00 | 2.2                 |     |     |                     | 329  |     |                                                                                      |
| HGRM 51111/55211 V00 | 4.3                 |     |     |                     | 378  |     |                                                                                      |
| HGR2MT 51111 F00     | 0.5                 |     |     |                     | 676  |     |                                                                                      |
| HGR2MT 51111 K00     | 1.95                |     |     |                     | 576  |     | Electrostatic Shield<br>Form-D Contacts                                              |
| HGR2MT 51111 N00     | 2.5                 |     |     |                     | 662  |     |                                                                                      |
| HGR2M 53211 H00      | 0.37                |     |     |                     | 208  |     |                                                                                      |
| HGR2M 53211 M00      | 0.91                |     |     |                     | 185  |     |                                                                                      |
| HGR2M 53211 Q00      | 1.83                |     |     |                     | 199  |     | Bistable Latching                                                                    |
| HGR2M 53211 T00      | 3.67                |     |     |                     | 192  |     |                                                                                      |
| HGSR 51211 J00       | 0.35                |     |     |                     | 357  |     |                                                                                      |
| HGSR 51211 N00       | 0.94                |     |     |                     | 331  |     |                                                                                      |
| HGSR 51211 R00       | 1.7                 |     |     |                     | 329  |     | Form-D Contacts                                                                      |
| HGSR 51211 V00       | 3.5                 |     |     |                     | 378  |     |                                                                                      |
| HGSM 51111 IC0       | 0.75                |     |     |                     | 75   |     |                                                                                      |
| HGSM 51111 K00       | 0.46                |     |     |                     | 179  |     |                                                                                      |
| HGSM 51111 P00       | 1.2                 |     |     |                     | 153  |     | Form-D Contacts<br>Bistable Latching<br>Electrostatic Shield                         |
| HGSM 51111 T00       | 2.41                |     |     |                     | 159  |     |                                                                                      |
| HGSM 51111 V00       | 3.8                 |     |     |                     | 268  |     |                                                                                      |
| HG 11331 G00         | 1.13                |     |     |                     | 714  |     |                                                                                      |
| HG 11331 K00         | 2.3                 |     |     |                     | 1029 |     | Double Wound Coil<br>50/100mW version<br>Bistable Latching<br>2-Form-D               |
| HG 11331 N00         | 4.7                 |     |     |                     | 993  |     |                                                                                      |
| HG 11331 R00         | 9.1                 |     |     |                     | 1072 |     |                                                                                      |
| HGM 11411 H00        | 0.91                |     |     |                     | 1208 |     |                                                                                      |
| HGM 11411 M00        | 2.13                |     |     |                     | 1125 |     | Double Wound Coil<br>Bistable Latching                                               |
| HGM 11411 Q00        | 4.05                |     |     |                     | 1152 |     |                                                                                      |
| HGM 11411 T00        | 8.79                |     |     |                     | 1062 |     |                                                                                      |
| HGPM 11441 M00       | 0.16                |     |     |                     | 195  |     |                                                                                      |
| HGPM 11441 R00       | 0.4                 |     |     |                     | 184  |     | Double Wound Coil<br>Bistable Latching                                               |
| HGPM 11441 U00       | 0.8                 |     |     |                     | 181  |     |                                                                                      |
| HGPM 11441 X00       | 1.6                 |     |     |                     | 189  |     |                                                                                      |

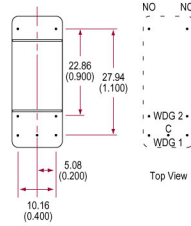
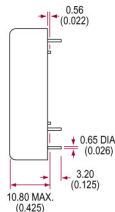
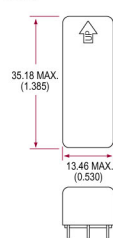
## HG SERIES REED RELAYS

HGRM • HGR2M • HGR2MT • HGSR • HGSM  
HGWR • HGWM • HGW2MT • HG • HGM • HGJM • HGJ2MT

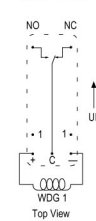
### MECHANICAL DIMENSIONS

DIMENSIONS  
mm  
(inches)

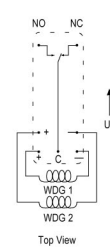
GWR



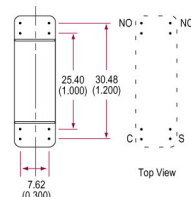
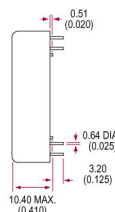
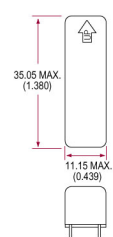
GWR 1 Coil



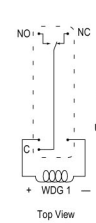
HGWR 2 Coil



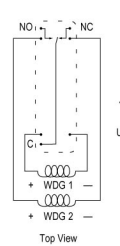
HGWM



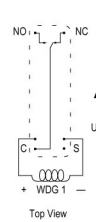
HGWM - 1



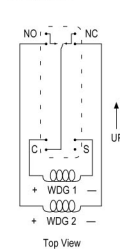
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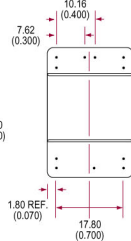
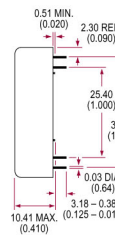
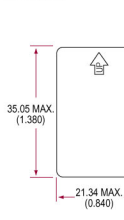
HGWM - 3



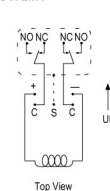
HGWM - 4



HGW2MT



HGW2MT





## HG SERIES REED RELAYS

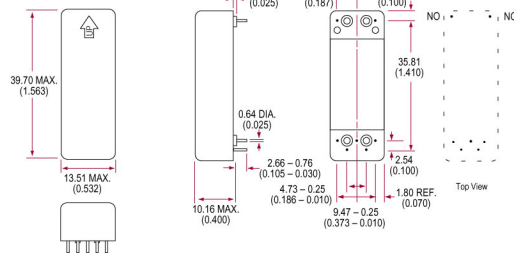
HGRM • HGR2M • HGR2MT • HGSR • HGSM

HGWR • HGWM • HGW2MT • HG • HGM • HGJM • HGJ2MT

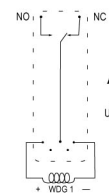
### MECHANICAL DIMENSIONS

DIMENSIONS  
mm  
(inches)

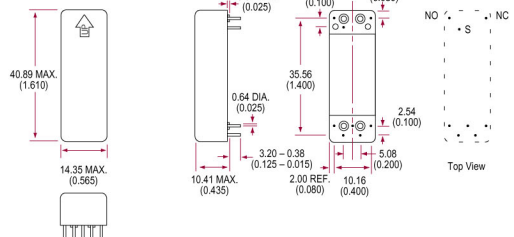
HGSR



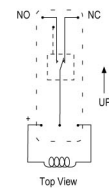
HGSR



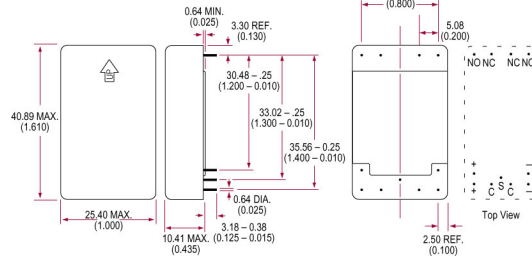
HGJM/HGRM



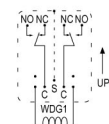
HGJM/HGRM



HGJ2MT/HGR2MT



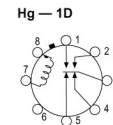
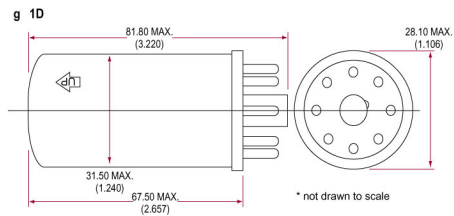
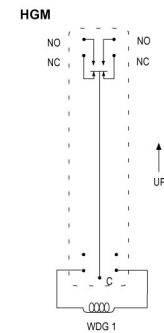
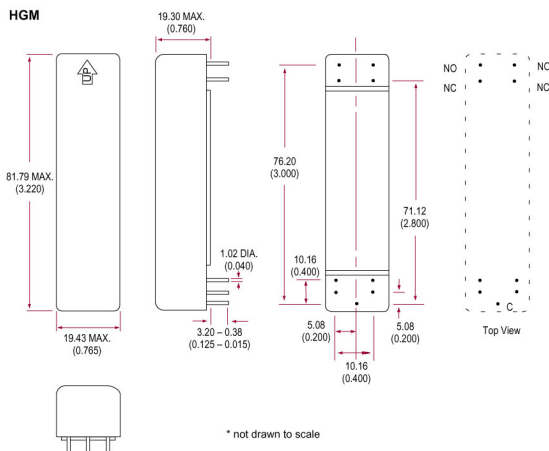
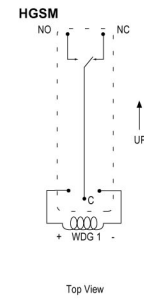
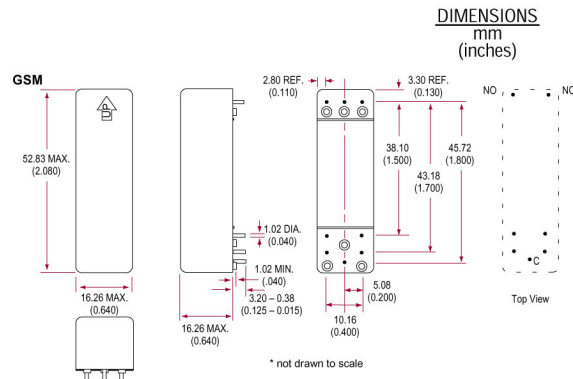
GJ2MT/HGR2MT



## HG SERIES REED RELAYS

HGRM • HGR2M • HGR2MT • HGSR • HGSM  
HGWR • HGWM • HGW2MT • HG • HGM • HGJM • HGJ2MT

### MECHANICAL DIMENSIONS





## HG SERIES REED RELAYS

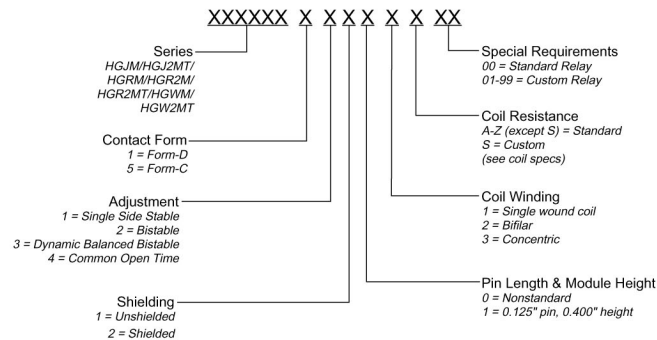
HGRM • HGR2M • HGR2MT • HGSR • HGSM

HGWR • HGWM • HGW2MT • HG • HGM • HGJM • HGJ2MT

## ORDERING INFORMATION

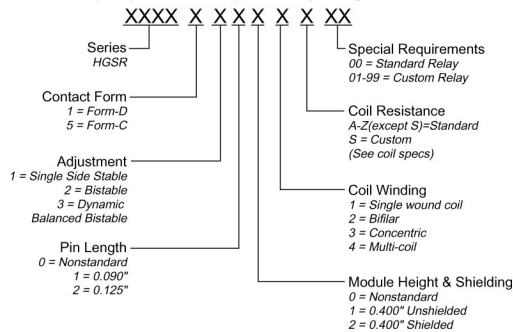
### HGWM, HGW2MT, HGRM, HGJM, HGR2MT, HGJ2MT, RELAYS

A complete part number is represented by the digits below.



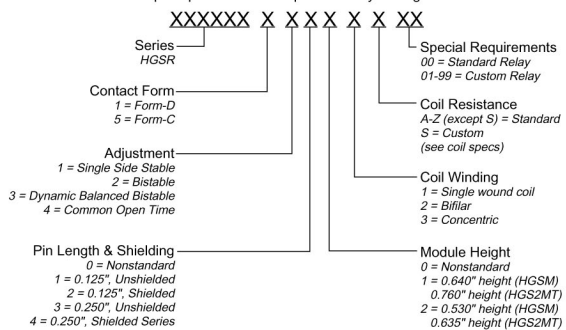
### HGSR RELAYS

A complete part number is represented by the digits below.



### HGSM RELAYS

A complete part number is represented by the digits below.



### HGWR, HG, HGM, RELAYS

A complete part number is given in the coil specifications chart.