

Click on the Part # to download the product data sheet (detailed drawing is on data sheet).

Standard

| | | | | |
|-------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Part# HSR- | <u>170</u> | <u>190</u> | <u>194</u> | <u>630</u> |
|-------------------|----------------------------|----------------------------|----------------------------|----------------------------|

PHYSICAL SPECIFICATIONS

| CONFIGURATION | SPST | SPST | SPST | SPDT |
|-------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A-Nominal Overall Length | 3.420 | 3.220 | 3.220 | 3.390 |
| B-Maximum Glass Length | 1.620 | 2.010 | 2.005 | 1.350 |
| C-Maximum Glass Diameter | .190 | .210 | .210 | .210 |
| D-Nominal Lead Diameter | .051 | .021x.098 | .021 x.098 | .040 |
| G-Gap Location | 1.700 | 1.615 | 1.615 | 1.500 |
| Contact Material² | R | R | W | R |
| Figure | <u>A-1</u> | <u>A-1</u> | <u>A-1</u> | <u>C-2</u> |

Switch Rating



[CSA Certified at
25V ac/dc, 25VA](#)

ELECTRICAL SPECIFICATIONS

Maximum Switching:

| | | | | |
|---|-----|-----|-----|-----|
| VOLTS DC | 200 | 250 | 350 | 150 |
| VOLTS AC⁹ | 120 | 240 | 240 | 120 |
| Maximum Switching Current AMPS DC/AC | 1.0 | 1.0 | 2.0 | 1.0 |
| Maximum Switching Power WATTS DC/AC | 25 | 25 | 50 | 25 |
| Minimum Voltage Breakdown VOLTS DC³ | 500 | 700 | 600 | 350 |
| Initial Contact Resistance OHMS | 0.1 | 0.1 | 0.1 | 0.1 |

| | | | | |
|---|-----------------|------------------|------------------|-----------------|
| Minimum Insulation Resistance OHMS⁴ | 10 ⁹ | 10 ¹⁰ | 10 ¹⁰ | 10 ⁹ |
|---|-----------------|------------------|------------------|-----------------|

OPERATING SPECIFICATIONS

| | | | | |
|--|-------|-------|--------|-------|
| Standard Pull-in Range AMPERE TURNS | 40-80 | 40-80 | 60-100 | 40-80 |
|--|-------|-------|--------|-------|

| | | | | |
|---|-----|----|----|----|
| Standard Test Coil NARM RS-421-A | III | IV | IV | IV |
|---|-----|----|----|----|

| | | | | |
|--|-----|-----|-----|-----|
| Operating Time (Including Bounce) MILLISECOND⁵ | 2.5 | 2.5 | 3.0 | 2.7 |
|--|-----|-----|-----|-----|

[Notes](#)

Part Number **HSR-630R** Contact Form C Switch Configuration SPDT Rev. E

Standard Large Form C Switch Suitable for Many Applications

| Features | Advantages |
|--|---|
| <ul style="list-style-type: none"> Hermetically sealed contacts Leaded glass currently exempted from RoHS requirements | <ul style="list-style-type: none"> Not ESD sensitive Extended operations in extreme environments CSA Certified file # 236890 |

Electrical Specifications

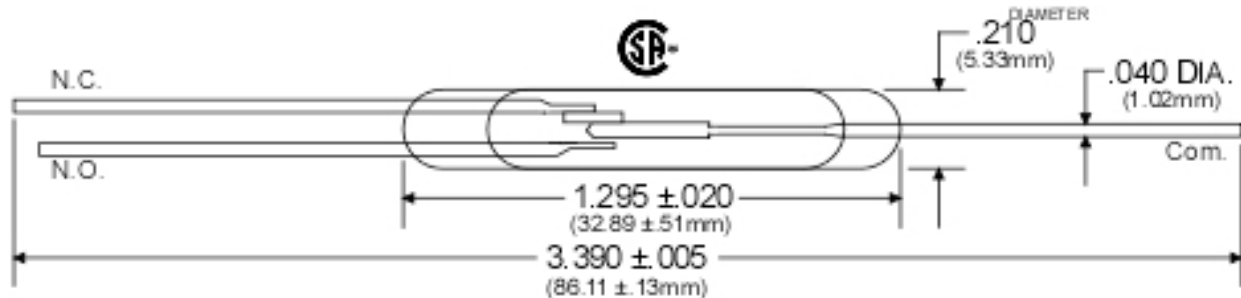
| | | | |
|-------------|----------------------------|-----------------|-------------|
| Power | | Watts - maximum | 25 |
| Voltage | Switching | VDC - maximum | 150 |
| | Breakdown | VDC - minimum | 350 |
| Current | Switching | Amp - maximum | 1 |
| | Carry | Amp - maximum | 6.2 |
| Resistance | Initial Contact Resistance | Ohm - maximum | 0.10 |
| | Insulation Resistance | Ohm - minimum | 1 E9 |
| Capacitance | Contact | pF - typical | 2.2 |
| Temperature | Operating | °C | -40 to +125 |
| | Storage | °C | -40 to +200 |

Magnetic Specifications

| | | | |
|-----------------|--|---------------|---------|
| Pull - In Range | | Ampere Turns | 40-80 |
| Test Coil | | NARM RS-421-A | Coil IV |

Physical/Operational Specifications

| | | | |
|------------------|------------------|--------------------|---------|
| Capsule Volume | Excluding Leads | CC - nominal | 0.74 |
| Contact Material | | | Rhodium |
| Operate Time | Including Bounce | mSeconds - maximum | 2.70 |
| Release Time | Including Bounce | mSeconds - maximum | 4.50 |



- Notes:
- (1) Specifications are not constant across entire magnetic range.
 - (2) Customer must exercise care in handling, mounting, lead forming, and cutting to prevent damage to glass capsule and/or switch sensitivity.
 - (3) For information or custom configurations about performance, mounting options or packaging, contact our Sales department.
 - (4) Information contained hereon is for informational purposes only and should not be deemed as accurate for a specific application. Consult factory for specific application information and/or latest revision.