



**REED SWITCH DEVELOPMENTS CORP.**

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**SPECIFICATION SHEET**

**2020-1960-400**

Alternate Part Numbers:

**AM2020-1960-10K01**  
**3730-2020-1960-400-ND**

Active / Equivalent Part Numbers:

**2020-1960-400 - KIT - Contains**

(1) 2020-1960-100 - Magnetic Reed Sensor

(1) 2020-4100-000 - Magnetic Actuator

**AM2020-1960-10K01 - KIT - Contains**

(1) AM2020-1960-10-01 - Magnetic Reed Sensor

(1) AM2020-4100-00-01 - Actuator

**3730-2020-1960-400-ND - KIT - Contains**

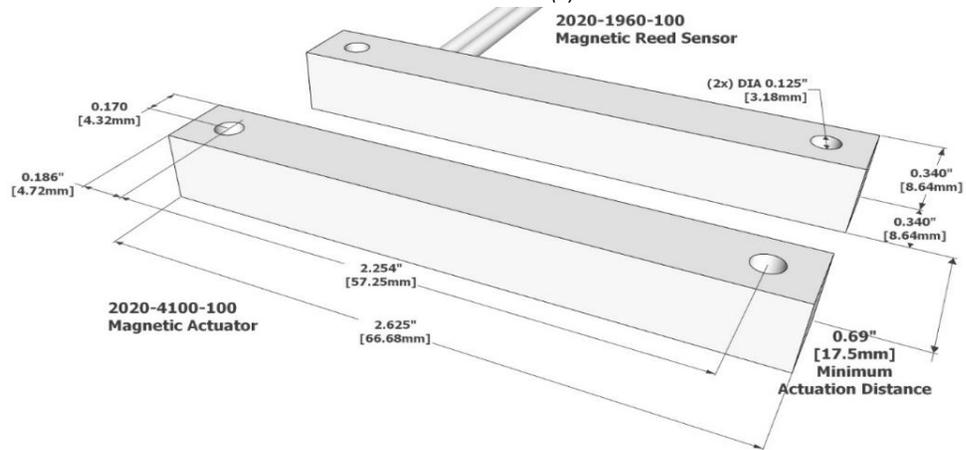
(1) 3730-2020-1960-100-ND - Magnetic Reed Sensor

(1) 3730-2020-4100-000-ND - Actuator

**Sensor (Reed) - Specifications 1960**

|                                    |                             |                   |      |
|------------------------------------|-----------------------------|-------------------|------|
| <b>Physical</b>                    | Configuration               | SPST              |      |
|                                    | Form                        | A                 |      |
|                                    | Contact Position            | CENTER            |      |
|                                    | Glass L                     | 24.50             | mm   |
|                                    | Glass D                     | 3.80              | mm   |
|                                    | Total L*                    | 55.00             | mm   |
|                                    | Wire D                      | 0.80              | mm   |
|                                    | Gap Location                | CENTER            |      |
|                                    | Mount Spec*                 | THRU              |      |
|                                    | Contact Material            | RHODIUM           |      |
|                                    | Max Vibration Resistance    | 35                | G    |
|                                    | Max Shock Resistance (11ms) | 50                | G    |
|                                    | Lead Tensile Strength       | N/A               | KG   |
| <b>Operating</b>                   | Pull in (+/- 2AT)*          | 35 - 40           | AT   |
|                                    | Drop out*                   | 15                | AT   |
|                                    | Operate Time                | 2.50              | ms   |
|                                    | Bounce Time                 | 0.50              | ms   |
|                                    | Release Time                | 0.10              | µs   |
|                                    | Resonant Frequency          | 2400              | Hz   |
|                                    | Max Operating Frequency     | 200               | Hz   |
|                                    | Operating Temperature Range | -40 - 105         | °C   |
|                                    | Storage Temperature         | N/A               | °C   |
|                                    | <b>Electrical</b>           | DC Contact Rating | 60   |
| AC Contact Rating                  |                             | 60                | VA   |
| DC Switching Voltage               |                             | 400               | VDC  |
| AC Switching Voltage               |                             | 400               | VAC  |
| DC Switching Current               |                             | 3.00              | A    |
| AC Switching Current               |                             | 3.00              | A    |
| DC Max Carry Current               |                             | 4.00              | A    |
| AC Max Carry Current               |                             | 4.00              | A    |
| Min Breakdown Voltage              |                             | 1000              | VDC  |
| Max Initial Contact Resistance     |                             | 80                | mOhm |
| Typical Initial Contact Resistance |                             | N/A               | mOhm |
| Max Contact Capacitance            | 0.50                        | pF                |      |
| Min Insulation Resistance          | 10 <sup>11</sup>            | Ohm               |      |

\* Pre-processed, bare reed element



All measurements are in Inches [millimeters]

**Sensor - Wire/Cable Characteristics (cont.)**

|                     |              |
|---------------------|--------------|
| Type                | Wire         |
| Conductor Count     | 2            |
| Length              | 6.0"/152.4mm |
| Colors              | BLK          |
| Insulation Material | PVC          |
| Gauge               | 24 AWG       |
| Stranded Copper     | 7 STR-TC     |
| Maximum Temp        | 105°C        |

**Housing Characteristics 2020**

|                               |                |
|-------------------------------|----------------|
| Rectangular w/ Mounting Holes |                |
| Length                        | 2.625"/66.68mm |
| Width                         | 0.340"/8.64mm  |
| Height                        | 0.340"/8.64mm  |
| Material                      | Celanex 3316   |

**Standard Actuator: 2020-4100-000**

| Specifications               | Description    | UM     |
|------------------------------|----------------|--------|
| Magnetic Orientation         | Through Length |        |
| Max Operating Temp.          | 975/525        | °F/°C  |
| Curie Temp.                  | 1580/860       | °F/°C  |
| BR max                       | 12.8           | kGauss |
| BH max                       | 5.5            | MGOe   |
| Coercive Force Hc            | 640            | kOe    |
| Intrinsic Coercive Force Hci | 640            | kOe    |

**Standard Sensor/Actuator - Min. Actuation Distance**

|               |              |
|---------------|--------------|
| 2020-4100-000 | 0.69"/17.5mm |
|---------------|--------------|

**Assembly Certifications**

|                                 |   |
|---------------------------------|---|
| UL Recognized (File #: E102207) | Y |
| RoHS / REACH Compliant          | Y |
| Conflict Free Material          | Y |

REV DATE: 04/20/2023

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