



**REED SWITCH  
DEVELOPMENTS CORP.**

2524 Norwood Court  
Racine, WI 53403  
Ph: (262)883-9060

[sales@reedswitchdevelopments.com](mailto:sales@reedswitchdevelopments.com)

**Sensor (Reed) - Specifications 1900**

|            |                                    |                 |      |
|------------|------------------------------------|-----------------|------|
| Physical   | Configuration                      | SPDT            |      |
|            | Form                               | C               |      |
|            | Contact Position                   | OFFSET          |      |
|            | Glass L                            | 14.00           | mm   |
|            | Glass D                            | 2.30            | mm   |
|            | Total L*                           | 55.00           | mm   |
|            | Wire D                             | 0.53            | mm   |
|            | Gap Location                       | OFFSET          |      |
|            | Mount Spec*                        | THRU            |      |
|            | Contact Material                   | RHODIUM         |      |
|            | Max Vibration Resistance           | 20              | G    |
|            | Max Shock Resistance (11ms)        | 50              | G    |
| Operating  | Lead Tensile Strength              | N/A             | KG   |
|            | Pull in (+/- 2AT)*                 | 20-25           | AT   |
|            | Drop out*                          | 5               | AT   |
|            | Operate Time                       | 2.0             | ms   |
|            | Bounce Time                        | 0.60            | ms   |
|            | Release Time                       | 0.50            | ms   |
|            | Resonant Frequency                 | N/A             | Hz   |
|            | Max Operating Frequency            | 250             | Hz   |
|            | Operating Temperature Range        | -40 - 105       | °C   |
|            | Storage Temperature                | N/A             | °C   |
| Electrical | DC Contact Rating                  | 20              | W    |
|            | AC Contact Rating                  | 20              | VA   |
|            | DC Switching Voltage               | 150             | VDC  |
|            | AC Switching Voltage               | 150             | VAC  |
|            | DC Switching Current               | 1.00            | A    |
|            | AC Switching Current               | 1.00            | A    |
|            | DC Max Carry Current               | 2.00            | A    |
|            | AC Max Carry Current               | 2.00            | A    |
|            | Min Breakdown Voltage              | 200             | VDC  |
|            | Max Initial Contact Resistance     | 150             | mOhm |
|            | Typical Initial Contact Resistance | N/A             | mOhm |
|            | Max Contact Capacitance            | 0.80            | pF   |
|            | Min Insulation Resistance          | 10 <sup>9</sup> | Ohm  |

\* Pre-processed, bare reed element

## SPECIFICATION SHEET

### 2010-1900-400

Alternate Part Numbers:

**AM2010-1900-10K01**  
**3730-2010-1900-400-ND**

Active / Equivalent Part Numbers:

**2010-1900-400 - KIT - Contains**

(1) 2010-1900-100 - Magnetic Reed Sensor

(1) 2010-4002-000 - Magnetic Actuator

**AM2010-1900-10K01 - KIT - Contains**

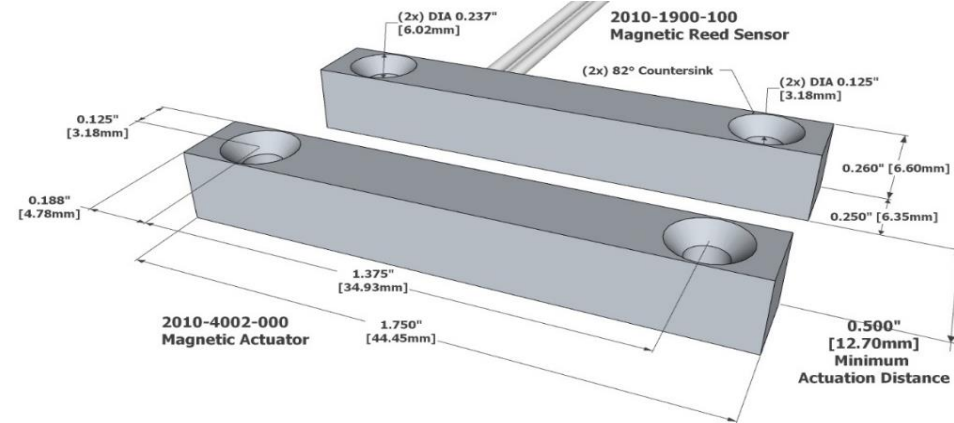
(1) AM2010-1900-10-01 - Magnetic Reed Sensor

(1) AM2010-4002-00-01 - Magnetic Actuator

**3730-2010-1900-400-ND - KIT - Contains**

(1) 3730-2010-1900-100-ND - Magnetic Reed Sensor

(1) 3730-2010-4002-000-ND - Magnetic Actuator



All measurements are in Inches [millimeters]

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

|                     |               |
|---------------------|---------------|
| Type                | Wire          |
| Conductor Count     | 3             |
| Length              | 6.0"/152.4mm  |
| Colors              | RED, BLK, WHT |
| Insulation Material | PVC           |
| Gauge               | 24 AWG        |
| Stranded Copper     | 7 STR-TC      |
| Maximum Temp        | 105°C         |

#### Conductor Configuration

|                              |  |
|------------------------------|--|
| Common (COM) - WHITE         |  |
| Normally Open (NO) - RED     |  |
| Normally Closed (NC) - BLACK |  |

#### Housing Characteristics 2010

|                                   |                |
|-----------------------------------|----------------|
| Rectangular w/ Mounting Tab/Holes |                |
| Length                            | 1.125"/28.58mm |
| Width                             | 0.750"/19.05mm |
| Height                            | 0.250"/6.35mm  |
| Material                          | Celanex 3316   |

#### Standard Actuator: 2010-4002-000

| 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    |

#### Std. Sensor/Actuator - Min. Actuation Dist.

|               |              |
|---------------|--------------|
| 2010-4002-000 | 0.50"/12.7mm |
|---------------|--------------|

#### Assembly Certifications

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

REV DATE: 04/20/2023

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