



REED SWITCH DEVELOPMENTS CORP.

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SPECIFICATION SHEET

2010-1901-400

Alternate Part Numbers:
AM2010-1901-10K01
3730-2010-1901-400-ND

Active / Equivalent Part Numbers:

2010-1901-400 - KIT - Contains

(1) 2010-1901-100 - Magnetic Reed Sensor

(1) 2010-4002-000 - Magnetic Actuator

AM2010-1901-10K01 - KIT - Contains

(1) AM2010-1901-10-01 - Magnetic Reed Sensor

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

3730-2010-1901-400-ND - KIT - Contains

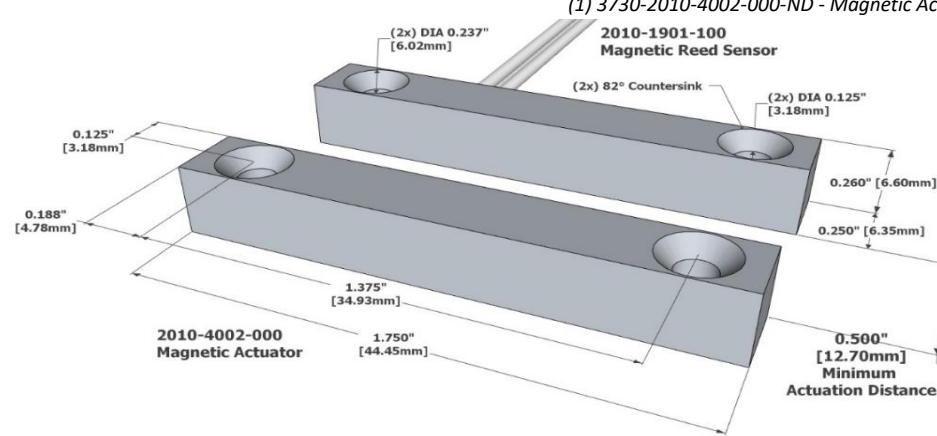
(1) 3730-2010-1901-100-ND - Magnetic Reed Sensor

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

Sensor (Reed) - Specifications 1901

| | | | |
|------------------------------------|-----------------------------|-------------------|------|
| 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 |
| | Lead Tensile Strength | N/A | KG |
| Operating | Pull in (+/- 2AT)* | 15-20 | 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 |
| 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 ⁹ | Ohm |

* Pre-processed, bare reed element



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 Holes | |
| Length | 1.750"/44.45mm |
| Width | 0.250"/6.35mm |
| Height | 0.260"/6.60mm |
| Material | Celanex 3316 |

Standard Actuator: 2010-4002-000

| | Specifications | Description | UM |
|-------------------|------------------------------|----------------|--------|
| Physical/Magnetic | 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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