



REED SWITCH DEVELOPMENTS CORP.

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SPECIFICATION SHEET

2010-1965-400

Alternate Part Numbers:

AM2010-1965-10K01
3730-2010-1965-400-ND

Active / Equivalent Part Numbers:

2010-1965-400 - KIT - Contains

(1) 2010-1965-100 - Magnetic Reed Sensor

(1) 2010-4002-000 - Magnetic Actuator

AM2010-1965-10K01 - KIT - Contains

(1) AM2010-1965-10-01 - Magnetic Reed Sensor

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

3730-2010-1965-400-ND - KIT - Contains

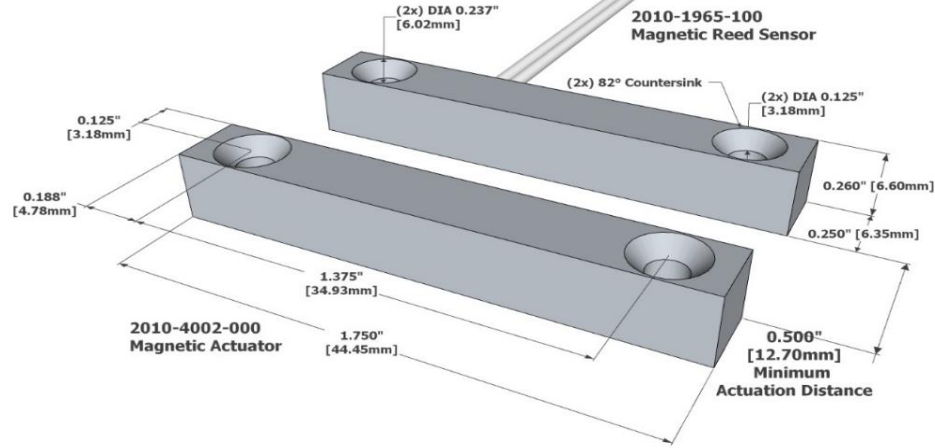
(1) 3730-2010-1965-100-ND - Magnetic Reed Sensor

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

Sensor (Reed) - Specifications 1965

| | | | |
|-----------------------------|------------------------------------|--------------------|---------|
| Physical | Configuration | SPST | |
| | Form | A | |
| | Contact Position | CENTER | |
| | Glass L | 19.00 | mm |
| | Glass D | 2.60 | mm |
| | Total L* | 55.00 | mm |
| | Wire D | 0.70 | 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 |
| | Operating | Pull in (+/- 2AT)* | 20 - 25 |
| Drop out* | | 15 | AT |
| Operate Time | | 2.00 | ms |
| Bounce Time | | 0.50 | ms |
| Release Time | | 0.10 | µs |
| Resonant Frequency | | 4200 | Hz |
| Max Operating Frequency | | 300 | Hz |
| Operating Temperature Range | | -40 - 105 | °C |
| Storage Temperature | | N/A | °C |
| Electrical | | DC Contact Rating | 40 |
| | AC Contact Rating | 40 | VA |
| | DC Switching Voltage | 400 | VDC |
| | AC Switching Voltage | 400 | VAC |
| | DC Switching Current | 2.00 | A |
| | AC Switching Current | 2.00 | A |
| | DC Max Carry Current | 3.00 | A |
| | AC Max Carry Current | 3.00 | 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 ¹¹ | 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 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 |
|------------------------------|----------------|--------|
| 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

| | |
|---------------|--------------|
| 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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