



REED SWITCH DEVELOPMENTS CORP.

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SPECIFICATION SHEET

2250-1166-400

Alternate Part Number:
AM2250-1166-10K01

Active / Equivalent Part Numbers:

2250-1166-400 - KIT - Contains

(1) 2250-1166-100 - Magnetic Reed Sensor

(1) 2250-4002-000 - Magnetic Actuator

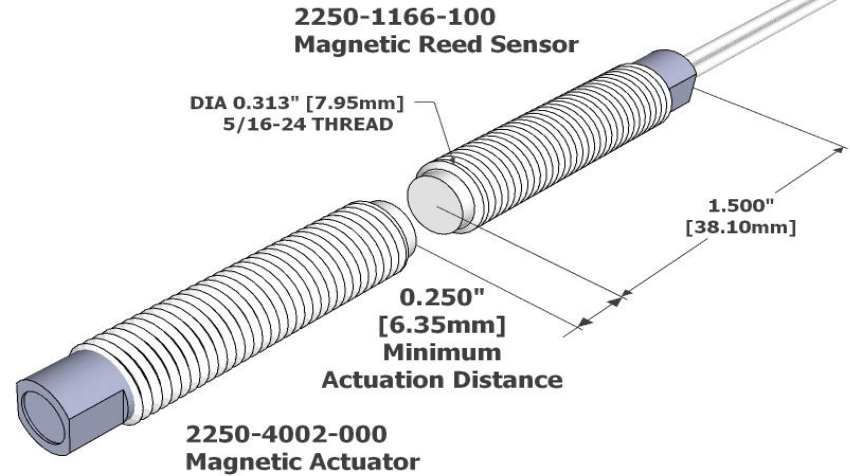
AM2250-1166-10K01 - KIT - Contains

(1) AM2250-1166-10-01 - Magnetic Reed Sensor

(1) AM2250-4002-00-01 - Magnetic Actuator

| Sensor (Reed) - Specifications | | 1166 | | |
|--------------------------------|------------------------------------|--------------------|-------|----|
| Physical | Configuration | SPST | | |
| | Form | A | | |
| | Contact Position | CENTER | | |
| | Glass L | 10.5 | mm | |
| | Glass D | 2.2 | mm | |
| | Total L* | 34.5 | mm | |
| | Wire D | N/A | mm | |
| | Gap Location | CENTER | | |
| | Mount Spec* | N/A | | |
| | Contact Material | N/A | | |
| | 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* | N/A | AT |
| Operate Time | | 0.5 | ms | |
| Bounce Time | | INCL | ms | |
| Release Time | | 0.1 | µs | |
| Resonant Frequency | | N/A | Hz | |
| Max Operating Frequency | | N/A | Hz | |
| Operating Temperature Range | | -40 - 130 | °C | |
| Storage Temperature | | -55 - 130 | °C | |
| Electrical | | DC Contact Rating | 20 | W |
| | AC Contact Rating | N/A | VA | |
| | DC Switching Voltage | 200 | VDC | |
| | AC Switching Voltage | 140 | VAC | |
| | DC Switching Current | 1.00 | A | |
| | AC Switching Current | 1.00 | A | |
| | DC Max Carry Current | 1.25 | A | |
| | AC Max Carry Current | 1.25 | A | |
| | Min Breakdown Voltage | 220 | VDC | |
| | Max Initial Contact Resistance | 150 | mOhm | |
| | Typical Initial Contact Resistance | N/A | mOhm | |
| | Max Contact Capacitance | 0.30 | pF | |
| | Min Insulation Resistance | 10 ¹² | 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 2250

| Cylindrical Threaded (5/16-24) | |
|--------------------------------|----------------|
| Length / Thickness | 1.500"/38.10mm |
| Diameter | 0.313"/7.95mm |
| Material | Celanex 3316 |

Standard Actuator: 2250-4002-000

| 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 | | |
| 2250-4002-000 | 0.25"/6.4mm | |
| Assembly Certifications | | |
| UL Recognized (File #: E102207) | Y | |
| RoHS / Reach Compliant | Y | |
| Conflict Free Material | Y | |

REV DATE: 10/06/2021

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