



**REED SWITCH DEVELOPMENTS CORP.**

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## SPECIFICATION SHEET

### 2100-1091-400

Alternate Part Number:  
**AM2100-1091-10K01**

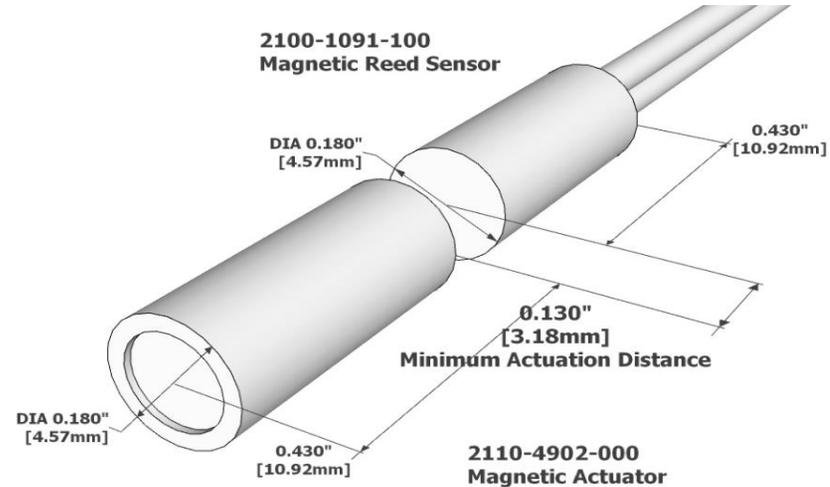
#### Active / Equivalent Part Numbers:

- 2100-1091-400 - KIT - Contains  
 (1) 2100-1091-100 - Magnetic Reed Sensor  
 (1) 2100-4902-000 - Magnetic Actuator  
 AM2100-1091-10K01 - KIT - Contains  
 (1) AM2100-1091-10-01 - Magnetic Reed Sensor  
 (1) AM2100-4902-00-01 - Magnetic Actuator

#### Sensor (Reed) - Specifications 1091

Physical	
Configuration	SPST
Form	A
Contact Position	CENTER
Glass L	7.00 mm
Glass D	1.80 mm
Total L*	46.00 mm
Wire D	0.45 mm
Gap Location	CENTER
Mount Spec*	THRU
Contact Material	RUTHENIUM
Max Vibration Resistance	10 G
Max Shock Resistance (11ms)	100 G
Lead Tensile Strength	N/A KG
Operating	
Pull in (+/- 2AT)*	7 - 12 AT
Drop out*	3 - 16 AT
Operate Time	0.115 ms
Bounce Time	0.035 ms
Release Time	0.035 μs
Resonant Frequency	17900 Hz
Max Operating Frequency	N/A Hz
Operating Temperature Range	-55 - 105 °C
Storage Temperature	N/A °C
Electrical	
DC Contact Rating	10 W
AC Contact Rating	N/A VA
DC Switching Voltage	170 VDC
AC Switching Voltage	120 VAC
DC Switching Current	0.500 A
AC Switching Current	0.500 A
DC Max Carry Current	0.500 A
AC Max Carry Current	0.500 A
Min Breakdown Voltage	210 VDC
Max Initial Contact Resistance	150 mOhm
Typical Initial Contact Resistance	120 mOhm
Max Contact Capacitance	0.350 pF
Min Insulation Resistance	10 <sup>6</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 2100

Cylindrical Smooth	
Length / Thickness	0.430"/10.92mm
Diameter	0.180"/4.57mm
Material	Celanex 3316

#### Standard Actuator: 2110-4902-000

Specifications	Description	UM
Magnetic Orientation	Through Length	
Max Operating Temp.	176°/80°	°F/°C
Curie Temp.	536°/280°	°F/°C
BR max	11	kGauss
BH max	30	MGOe
Coercive Force Hc	10	kOe
Intrinsic Coercive Force Hci	18	kOe
Standard Sensor/Actuator - Min. Actuation Distance		
2110-4902-000	0.13"/3.3mm	
Assembly Certifications		
UL Recognized (File #: E102207)	Y	
RoHS / Reach Compliant	Y	
Conflict Free Material	Y	

REV DATE: 10/06/2021

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