



**REED SWITCH DEVELOPMENTS CORP.**

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## SPECIFICATION SHEET

**2220-1091-400**

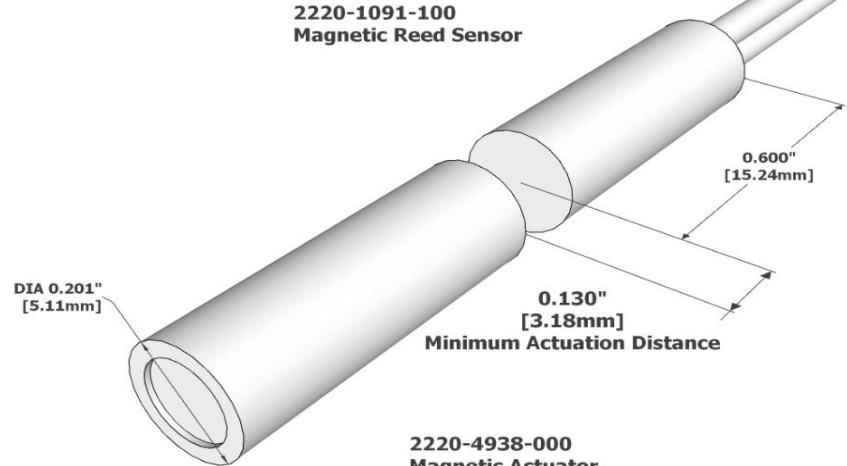
Alternate Part Number:  
**AM2220-1091-10K01**

### Active / Equivalent Part Numbers:

- 2220-1091-400 - KIT - Contains**  
 (1) 2220-1091-100 - Magnetic Reed Sensor  
 (1) 2220-4938-000 - Magnetic Actuator  
**AM2220-1091-10K01 - KIT - Contains**  
 (1) AM2220-1091-10-01 - Magnetic Reed Sensor  
 (1) AM2220-4938-00-01 - 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



### 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 2105

Cylindrical Smooth	
Length / Thickness	0.600"/15.24mm
Diameter	0.201"/5.11mm
Material	Celanex 3316

### 2220-4938-000 Magnetic Actuator

### Standard Actuator: 2220-4938-000

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		
2220-4938-000	0.13"/3.3mm	
Assembly Certifications		
UL Recognized (File #: E102207)	Y	
RoHS / Reach Compliant	Y	
Conflict Free Material	Y	

All measurements are in Inches [millimeters]

REV DATE: 10/06/2021

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