



**REED SWITCH DEVELOPMENTS CORP.**

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**SPECIFICATION SHEET**

**2005-1051-400**

Alternate Part Number:  
**AM2005-1051-10K01**

**Active / Equivalent Part Numbers:**

**2005-1051-400 - KIT - Contains**

(1) 2005-1051-100 - Magnetic Reed Sensor

(1) 2005-4000-000 - Magnetic Actuator

**AM2005-1051-10K01 - KIT - Contains**

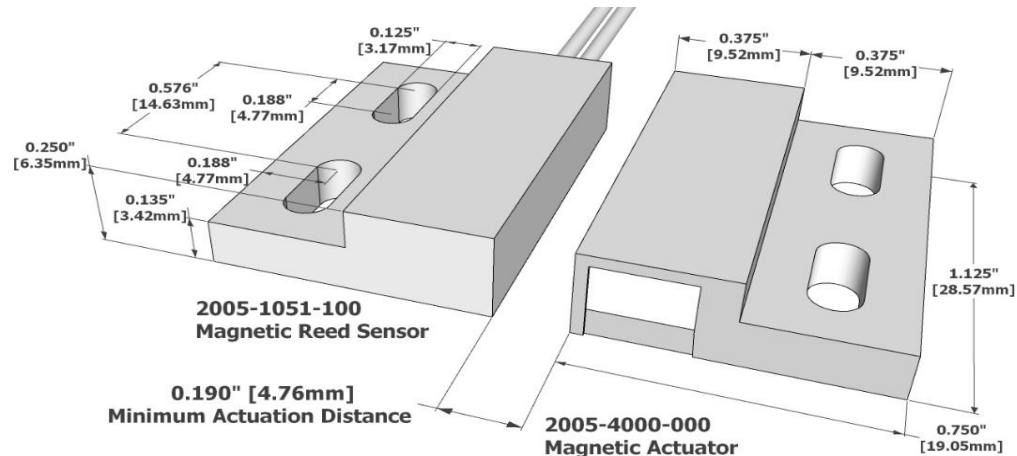
(1) AM2005-1051-10-01 - Magnetic Reed Sensor

(1) AM2005-4000-00-01 - Magnetic Actuator

**Sensor (Reed) - Specifications 1051**

<b>Physical</b>	Configuration	SPST	
	Form	A	
	Contact Position	CENTER	
	Glass L	14.50	mm
	Glass D	2.54	mm
	Total L*	46.00	mm
	Wire D	0.60	mm
	Gap Location	CENTER	
	Mount Spec*	THRU	
	Contact Material	RUTHENIUM	
	Max Vibration Resistance	10	G
	Max Shock Resistance (11ms)	150	G
	Lead Tensile Strength	N/A	KG
	<b>Operating</b>	Pull in (+/- 2AT)*	15 - 23
Drop out*		7.5-17.5	AT
Operate Time		0.10	ms
Bounce Time		0.15	ms
Release Time		30	µs
Resonant Frequency		5100	Hz
Max Operating Frequency		N/A	Hz
Operating Temperature Range		-55 - 105	°C
Storage Temperature		N/A	°C
<b>Electrical</b>		DC Contact Rating	15
	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	1.75	A
	AC Max Carry Current	1.75	A
	Min Breakdown Voltage	275	VDC
	Max Initial Contact Resistance	100	mOhm
	Typical Initial Contact Resistance	70	mOhm
Max Contact Capacitance	0.30	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 2005**

Rectangular w/ Mounting Tab/Holes	
Length	1.125"/28.58mm
Width	0.750"/19.05mm
Height	0.250"/6.35mm
Material	Celanex 3316

**Standard Actuator: 2005-4000-000**

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**

2005-4000-000	0.19"/4.8mm
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**Assembly Certifications**

UL Recognized (File #: E102207)	Y
RoHS / REACH Compliant	Y
Conflict Free Material	Y

REV DATE: 10/06/2021

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**WBE Certified - State of Wisconsin - MFR CAGE CODE: 32604**

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