



**REED SWITCH DEVELOPMENTS CORP.**

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# SPECIFICATION SHEET

## 2005-1051-400

Alternate Part Numbers:  
**AM2005-1051-10K01**  
**3730-2005-1051-400-ND**

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

**3730-2005-1051-400-ND - KIT - Contains**

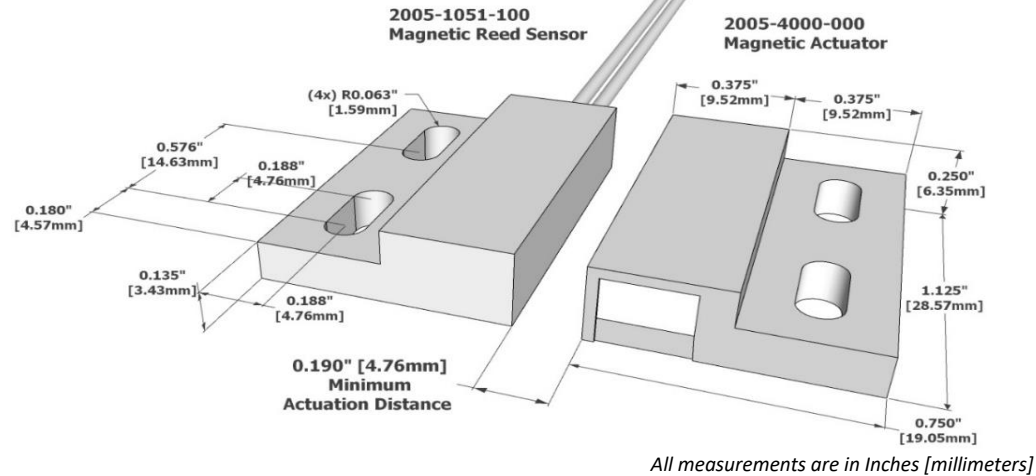
(1) 3730-2005-1051-100-ND - Magnetic Reed Sensor

(1) 3730-2005-4000-000-ND - Magnetic Actuator

**Sensor (Reed) - Specifications 1051**

Physical	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
Operating	Pull in (+/- 2AT)*	15 - 23	AT
	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
	Electrical	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: 04/20/2023

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

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