



REED SWITCH DEVELOPMENTS CORP.

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SPECIFICATION SHEET

2005-1166-400

Alternate Part Number:
AM2005-1166-10K01

Active / Equivalent Part Numbers:

2005-1166-400 - KIT - Contains

(1) 2005-1166-100 - Magnetic Reed Sensor

(1) 2005-4000-000 - Magnetic Actuator

AM2005-1166-10K01 - KIT - Contains

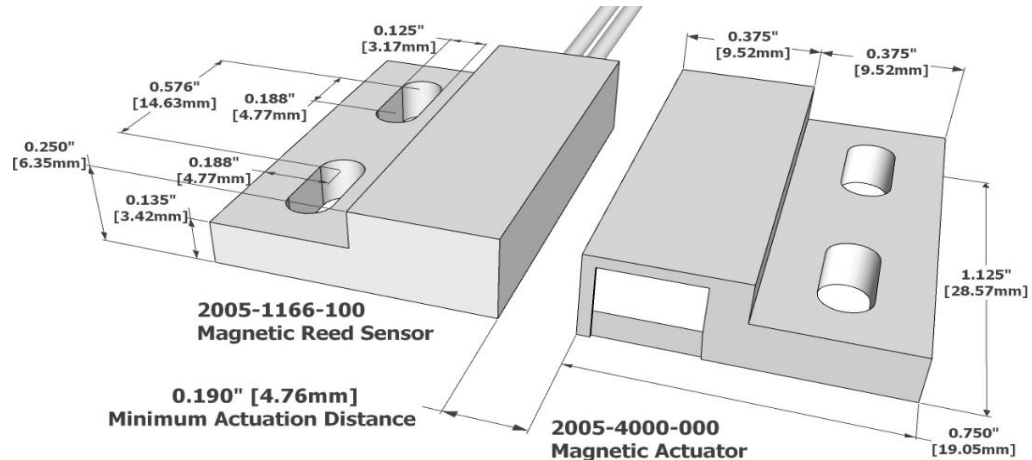
(1) AM2005-1166-10-01 - Magnetic Reed Sensor

(1) AM2005-4000-00-01 - 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	
	Pull in (+/- 2AT)*	15-20	AT	
	Operating	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 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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