



REED SWITCH DEVELOPMENTS CORP.

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SPECIFICATION SHEET

2005-1166-400

Alternate Part Numbers:

AM2005-1166-10K01
3730-2005-1166-400-ND

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

3730-2005-1166-400-ND - KIT - Contains

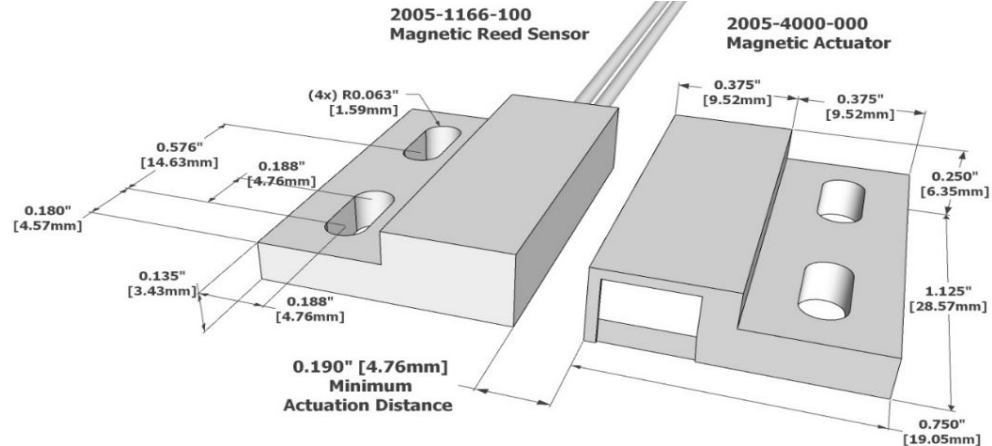
(1) 3730-2005-1166-100-ND - Magnetic Reed Sensor

(1) 3730-2005-4000-000-ND - 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
Operating	Pull in (+/- 2AT)*	15-20	AT
	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
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: 04/20/2023

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