



**REED SWITCH DEVELOPMENTS CORP.**

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## SPECIFICATION SHEET

### 2005-1166-100

Alternate Part Number:

**AM2005-1166-10-01**

Active / Equivalent Part Numbers:

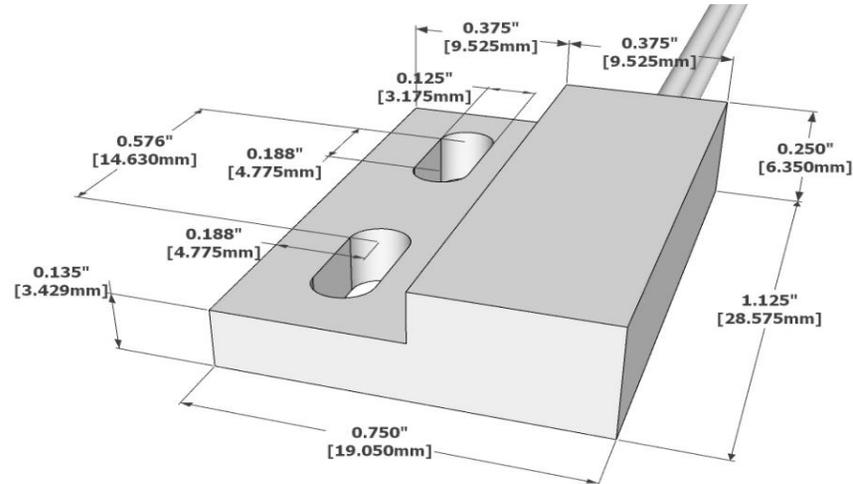
2005-1166-100 - Magnetic Reed Sensor Only

AM2005-1166-00-01 - Magnetic Reed Sensor Only

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)*
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
	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 <sup>12</sup> Ohm

\* Pre-processed, bare reed element

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**2005-1166-100  
Magnetic Reed Sensor**

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 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

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

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