



REED SWITCH DEVELOPMENTS CORP.

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SPECIFICATION SHEET

2005-1166-100

Alternate Part Numbers:

AM2005-1166-10-01

3730-2005-1166-100-ND

Active / Equivalent Part Numbers:

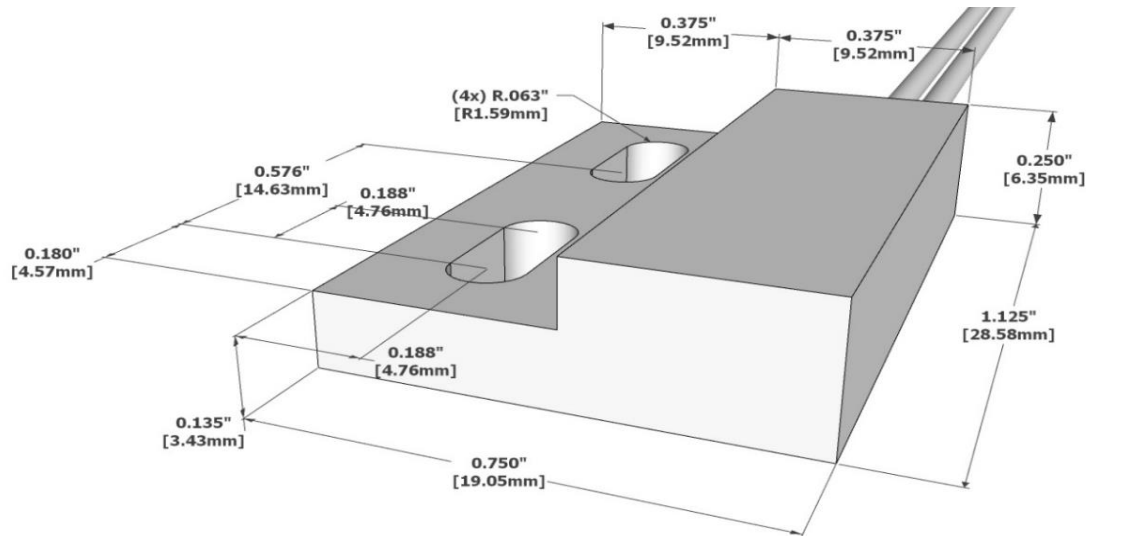
2005-1166-100 - Magnetic Reed Sensor Only

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

3730-2005-1166-100-ND - 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)*	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
Electrical	Storage Temperature	-55 - 130 °C
	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 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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