



**REED SWITCH DEVELOPMENTS CORP.**

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## SPECIFICATION SHEET

### 2450-1166-100

Alternate Part Number:  
**AM2450-1166-10-01**

Active / Equivalent Part Numbers:

2450-1166-100 - Magnetic Reed Sensor Only

AM2450-1166-10-01 - Magnetic Reed Sensor Only

#### Sensor (Reed) - Specifications 1166

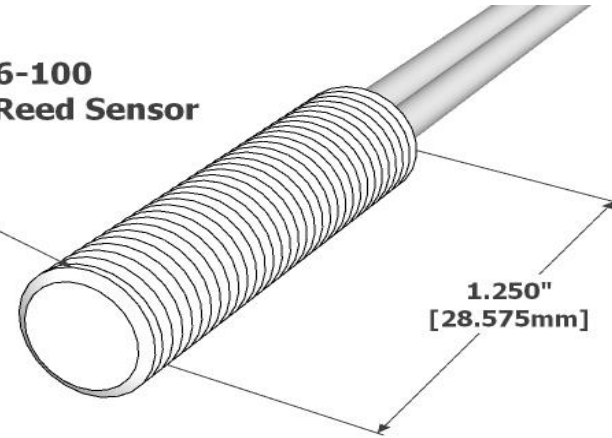
Physical		Operating		Electrical	
Configuration	SPST				
Form	A				
Contact Position	CENTER				
Glass L	10.5 mm				
Glass D	2.2 mm				
Total L*	34.5 mm				
Wire D	N/A mm				
Gap Location	CENTER				
Mount Spec*	N/A				
Contact Material	N/A				
Max Vibration Resistance	20 G				
Max Shock Resistance (11ms)	50 G				
Lead Tensile Strength	N/A KG				
Pull in (+/- 2AT)*	15-20 AT				
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				
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 <sup>12</sup> Ohm				

\* Pre-processed, bare reed element

DISCLAIMER NOTICE: INFORMATION FURNISHED IS PROPRIETARY, AND IS BELIEVED TO BE ACCURATE AND RELIABLE, AND IS SUBJECT TO CHANGE WITHOUT NOTICE. IT SHALL BE THE RESPONSIBILITY OF THE BUYER TO ENSURE THAT THE GOODS ARE SUFFICIENT AND SUITABLE FOR THE PURPOSE OR PURPOSES INTENDED (WHETHER BY THE BUYER OR BY ANY THIRD PARTY) AND THAT THEIR CAPACITY AND PERFORMANCE IS NOT ADVERSELY AFFECTED BY ANY ITEMS USED IN THEIR INSTALLATION (WHERE RELEVANT) AND/OR IN CONNECTION WITH THEM.

### 2450-1166-100 Magnetic Reed Sensor

DIA 0.313" [7.950mm]  
5/16 - 24 THREAD



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 2450

Cylindrical Threaded (5/16-24)	
Length / Thickness	1.125"/28.58mm
Diameter	0.313"/7.95mm
Material	Aluminum

For More Information Visit:

[www.reedswitchdevelopments.com](http://www.reedswitchdevelopments.com)

Or Call Us At:

262-883-9060

#### Standard Sensor/Actuator - Min. Actuation Distance

2450-4907-000	0.38"/9.5mm
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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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