



**REED SWITCH DEVELOPMENTS CORP.**

2524 Norwood Court  
Racine, WI 53403  
Ph: (262)883-9060

[sales@reedswitchdevelopments.com](mailto:sales@reedswitchdevelopments.com)

## SPECIFICATION SHEET

### 2450-1166-400

Alternate Part Number:  
**AM2450-1166-10K01**

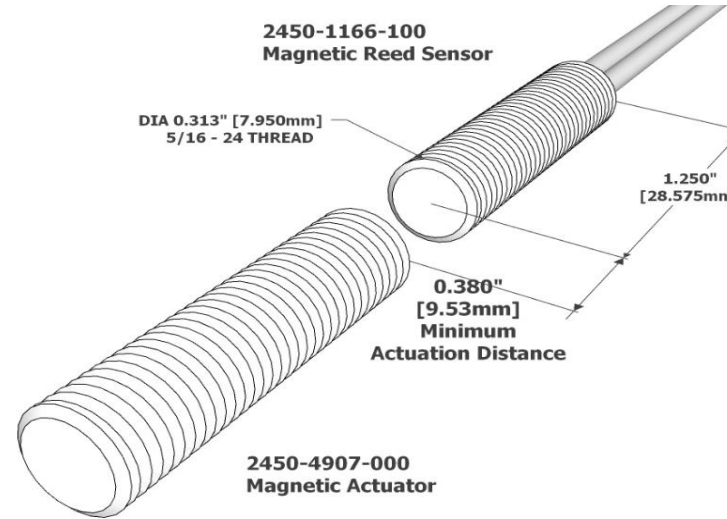
#### Active / Equivalent Part Numbers:

- 2450-1166-400 - KIT - Contains  
 (1) 2450-1166-100 - Magnetic Reed Sensor  
 (1) 2450-4907-000 - Magnetic Actuator  
 AM2450-1166-10K01 - KIT - Contains  
 (1) AM2450-1166-10-01 - Magnetic Reed Sensor  
 (1) AM2450-4907-00-01 - Magnetic Actuator

#### 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



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

#### Standard Actuator: 2450-4907-000

Specifications	Description	UM
Magnetic Orientation	Through Length	
Max Operating Temp.	210/100	°F/°C
Curie Temp.	590/310	°F/°C
BR max	12.2	kGauss
BH max	35	MGOe
Coercive Force Hc	11.5	kOe
Intrinsic Coercive Force Hci	18	kOe
<b>Standard Sensor/Actuator - Min. Actuation Distance</b>		
2450-4907-000	0.38"/9.5mm	
<b>Assembly Certifications</b>		
UL Recognized (File #: E102207)	Y	
RoHS / Reach Compliant	Y	
Conflict Free Material	Y	

REV DATE: 10/06/2021

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.

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

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