



**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

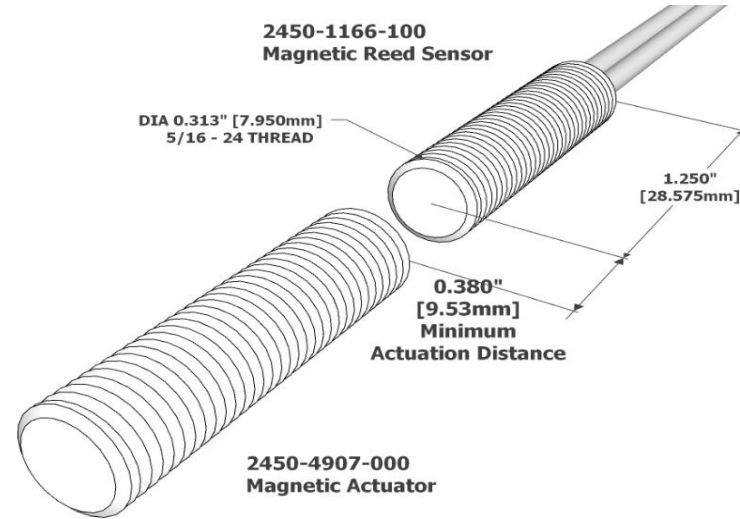
Alternate Part Number:  
**AM2450-1166-10K01**

#### 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	Pull in (+/- 2AT)*	15-20	DC Contact Rating	20 W
Form	A	Drop out*	N/A	AC Contact Rating	N/A VA
Contact Position	CENTER	Operate Time	0.5	DC Switching Voltage	200 VDC
Glass L	10.5 mm	Bounce Time	INCL	AC Switching Voltage	140 VAC
Glass D	2.2 mm	Release Time	0.1	DC Switching Current	1.00 A
Total L*	34.5 mm	Resonant Frequency	N/A	AC Switching Current	1.00 A
Wire D	N/A mm	Max Operating Frequency	N/A	DC Max Carry Current	1.25 A
Gap Location	CENTER	Operating Temperature Range	-40 - 130 °C	AC Max Carry Current	1.25 A
Mount Spec*	N/A	Storage Temperature	-55 - 130 °C	Min Breakdown Voltage	220 VDC
Contact Material	N/A			Max Initial Contact Resistance	150 mOhm
Max Vibration Resistance	20 G			Typical Initial Contact Resistance	N/A mOhm
Max Shock Resistance (11ms)	50 G			Max Contact Capacitance	0.30 pF
Lead Tensile Strength	N/A KG			Min Insulation Resistance	10 <sup>12</sup> Ohm



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
Standard Sensor/Actuator - Min. Actuation Distance		
2450-4907-000	0.38"/9.5mm	
Assembly Certifications		
UL Recognized (File #: E102207)	Y	
RoHS / Reach Compliant	Y	
Conflict Free Material	Y	

\* Pre-processed, bare reed element

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)