



**REED SWITCH DEVELOPMENTS CORP.**

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## SPECIFICATION SHEET

### 2602-1166-400

Alternate Part Number:  
**AM2602-1166-10K01**

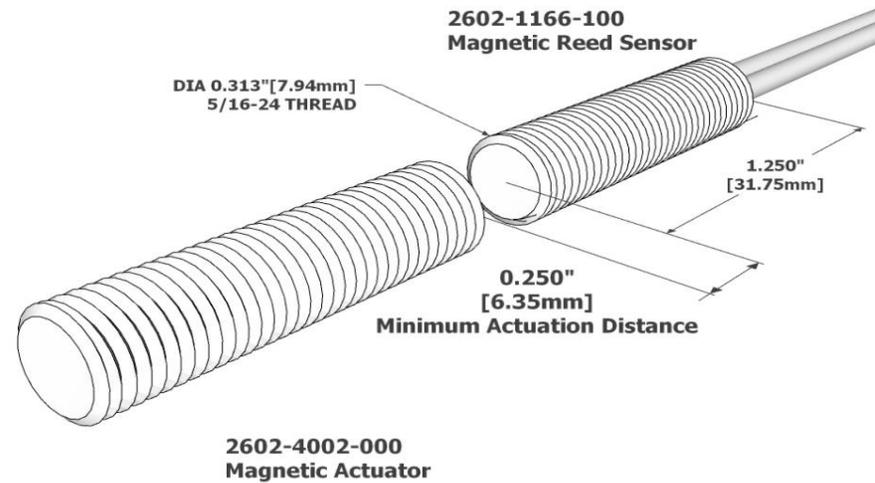
#### Active / Equivalent Part Numbers:

- 2602-1166-400 - KIT - Contains  
 (1) 2602-1166-100 - Magnetic Reed Sensor  
 (1) 2602-4002-000 - Magnetic Actuator  
 AM2602-1166-10K01 - KIT - Contains  
 (1) AM2602-1166-10-01 - Magnetic Reed Sensor  
 (1) AM2602-4002-00-01 - Magnetic Actuator

#### Sensor (Reed) - Specifications 1166

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

\* 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 2602

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

#### Standard Actuator: 2602-4002-000

Specifications	Description	UM
Magnetic Orientation	Through Length	
Max Operating Temp.	975/525	°F/°C
Curie Temp.	1580/860	°F/°C
BR max	12.8	kGauss
BH max	5.5	MGOe
Coercive Force Hc	640	kOe
Intrinsic Coercive Force Hci	640	kOe
Standard Sensor/Actuator - Min. Actuation Distance		
2602-4002-000	.25"/6.4mm	
Assembly Certifications		
UL Recognized (File #: E102207)	Y	
RoHS / Reach Compliant	Y	
Conflict Free Material	Y	

REV DATE: 10/06/2021

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