



REED SWITCH DEVELOPMENTS CORP.

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SPECIFICATION SHEET

2250-1166-400

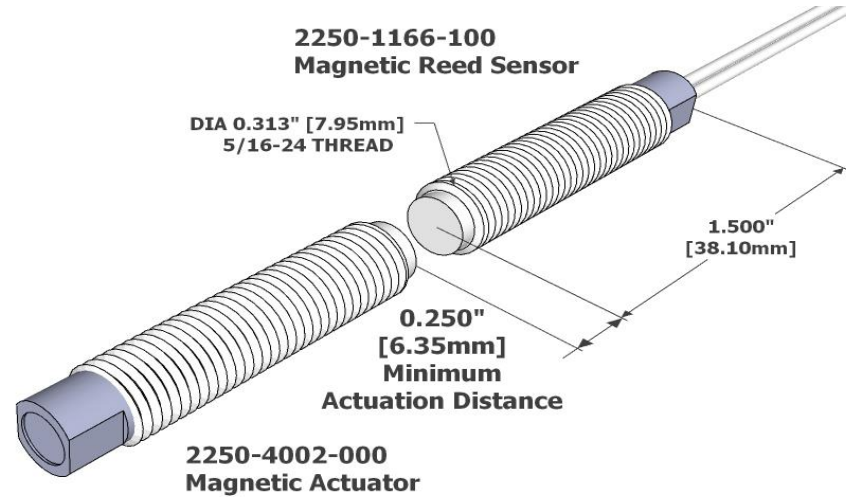
Alternate Part Number:
AM2250-1166-10K01

Active / Equivalent Part Numbers:

- 2250-1166-400 - KIT - Contains
 (1) 2250-1166-100 - Magnetic Reed Sensor
 (1) 2250-4002-000 - Magnetic Actuator
 AM2250-1166-10K01 - KIT - Contains
 (1) AM2250-1166-10-01 - Magnetic Reed Sensor
 (1) AM2250-4002-00-01 - Magnetic Actuator

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	
Storage Temperature		-55 - 130	°C	
Electrical		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 2250

Cylindrical Threaded (5/16-24)	
Length / Thickness	1.500"/38.10mm
Diameter	0.313"/7.95mm
Material	Celanex 3316

Standard Actuator: 2250-4002-000

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		
2250-4002-000	0.25"/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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