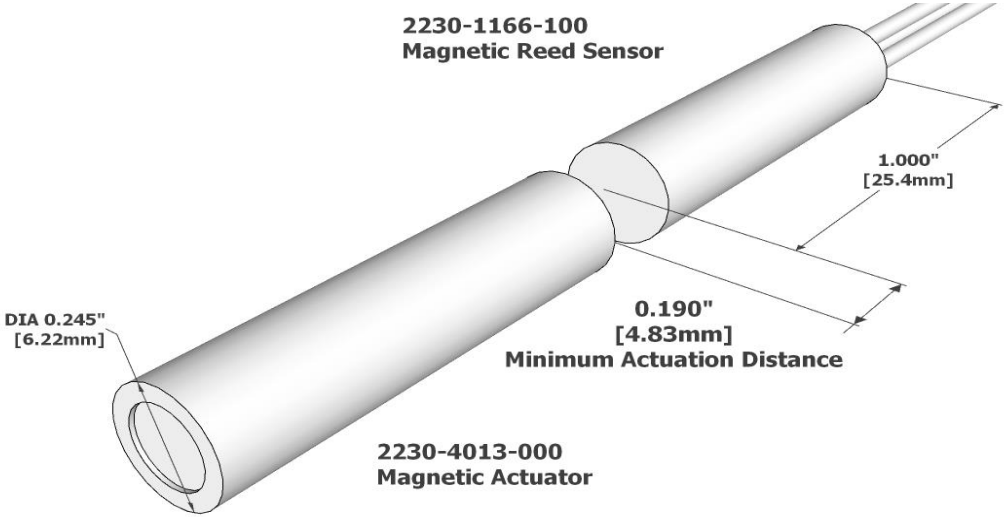
REED SWITCH DEVELOPMENTS CORP.
2524 Norwood Court
Racine, WI 53403
Ph: (262)883-9060
sales@reedswitchdevelopments.com

SPECIFICATION SHEET

2230-1166-400

Alternate Part Number:
AM2230-1166-10K01

Active / Equivalent Part Numbers:
2230-1166-400 - KIT - Contains
(1) 2230-1166-100 - Magnetic Reed Sensor
(1) 2230-4013-000 - Magnetic Actuator
AM2230-1166-10K01 - KIT - Contains
(1) AM2230-1166-10-01 - Magnetic Reed Sensor
(1) AM2230-4013-00-01 - Magnetic Actuator



All measurements are in Inches [millimeters]

	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

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	2230
Cylindrical Smooth	
Length / Thickness	1.000"/25.40mm
Diameter	0.245"/6.22mm
Material	Celanex 3316

Standard Actuator: 2230-4013-000

	Specifications	Description	UM
Physical/Magnetic	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	
2230-4013-000	0.19"/4.83mm

Assembly Certifications	
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.