



**REED SWITCH DEVELOPMENTS CORP.**

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# SPECIFICATION SHEET

## 2005-1901-400

Alternate Part Numbers:

**AM2005-1901-10K01**  
**3730-2005-1901-400-ND**

Active / Equivalent Part Numbers:

**2005-1901-400 - KIT - Contains**

(1) 2005-1901-100 - Magnetic Reed Sensor

(1) 2005-4000-000 - Magnetic Actuator

**AM2005-1901-10K01 - KIT - Contains**

(1) AM2005-1901-10-01 - Magnetic Reed Sensor

(1) AM2005-4000-00-01 - Magnetic Actuator

**3730-2005-1901-400-ND - KIT - Contains**

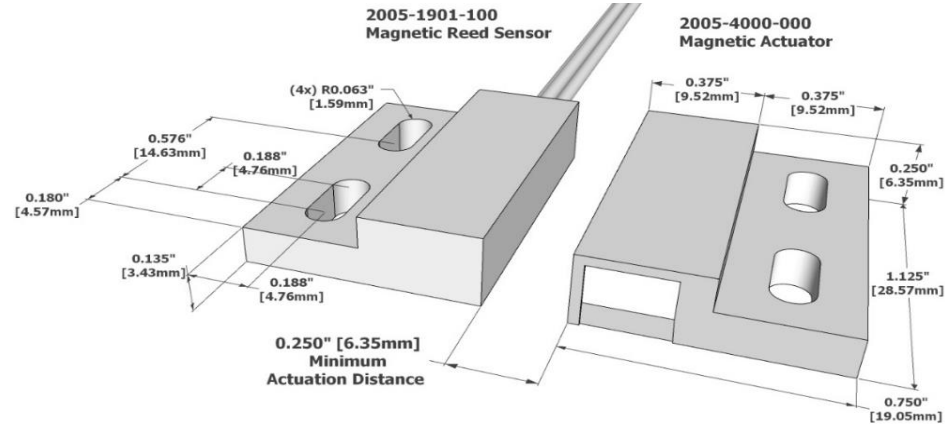
(1) 3730-2005-1901-100-ND - Magnetic Reed Sensor

(1) 3730-2005-4000-000-ND - Magnetic Actuator

**Sensor (Reed) - Specifications 1901**

Physical	Configuration	SPDT	
	Form	C	
	Contact Position	OFFSET	
	Glass L	14.00	mm
	Glass D	2.30	mm
	Total L*	55.00	mm
	Wire D	0.53	mm
	Gap Location	OFFSET	
	Mount Spec*	THRU	
	Contact Material	RHODIUM	
	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*	5	AT
	Operate Time	2.0	ms
	Bounce Time	0.60	ms
	Release Time	0.50	ms
	Resonant Frequency	N/A	Hz
	Max Operating Frequency	250	Hz
Electrical	Operating Temperature Range	-40 - 105	°C
	Storage Temperature	N/A	°C
	DC Contact Rating	20	W
	AC Contact Rating	20	VA
	DC Switching Voltage	150	VDC
	AC Switching Voltage	150	VAC
	DC Switching Current	1.00	A
	AC Switching Current	1.00	A
	DC Max Carry Current	2.00	A
	AC Max Carry Current	2.00	A
Min Breakdown Voltage	200	VDC	
Max Initial Contact Resistance	150	mOhm	
Typical Initial Contact Resistance	N/A	mOhm	
Max Contact Capacitance	0.80	pF	
Min Insulation Resistance	10 <sup>9</sup>	Ohm	

\* Pre-processed, bare reed element



All measurements are in Inches [millimeters]

**Sensor - Wire/Cable Characteristics (cont.)**

Type	Wire
Conductor Count	3
Length	6.0"/152.4mm
Colors	RED, BLK, WHT
Insulation Material	PVC
Gauge	24 AWG
Stranded Copper	7 STR-TC
Maximum Temp	105°C

**Conductor Configuration**

Common (COM) - WHITE
Normally Open (NO) - RED
Normally Closed (NC) - BLACK

**Housing Characteristics 2005**

Rectangular w/ Mounting Tab/Holes	
Length	1.125"/28.58mm
Width	0.750"/19.05mm
Height	0.250"/6.35mm
Material	Celanex 3316

**Standard Actuator: 2005-4000-000**

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

**Std. Sensor/Actuator - Min. Actuation Dist.**

2005-4000-000	0.25"/6.35mm
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**Assembly Certifications**

UL Recognized (File #: E102207)	Y
RoHS / REACH Compliant	Y
Conflict Free Material	Y

REV DATE: 04/20/2023

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

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