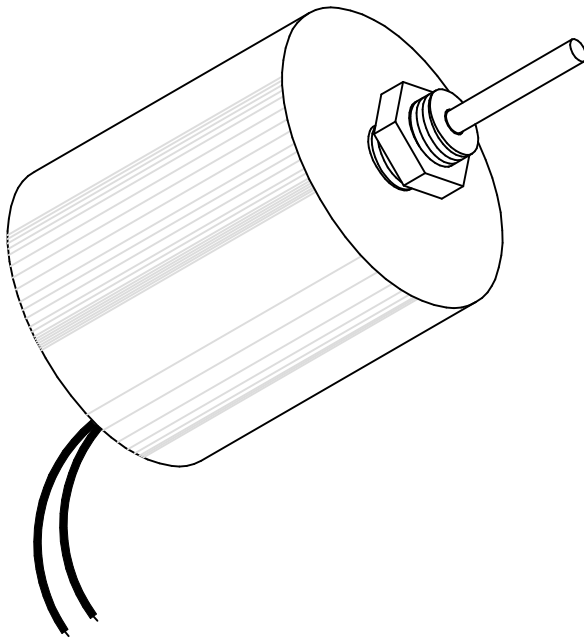


# MAGNETIC SENSOR SYSTEMS

## *Push Type Tubular Solenoid*



**Series S-22-200-H**  
**2.0" DIA X 2.19"**  
**[50.8 mm X 55.6 mm]**

TOTAL WEIGHT: 24.4 OUNCES [692 GR]

PLUNGER WEIGHT: 2.7 OUNCES [77 GR]

duty cycle	1 (100%)	1/2 (50%)	1/4 (25%)	1/10 (10%)
maximum "ON" time, (Sec.)	$\infty$	600	220	60
watts	15	30	60	150
approximate ampere turns	1850	2620	3700	5850

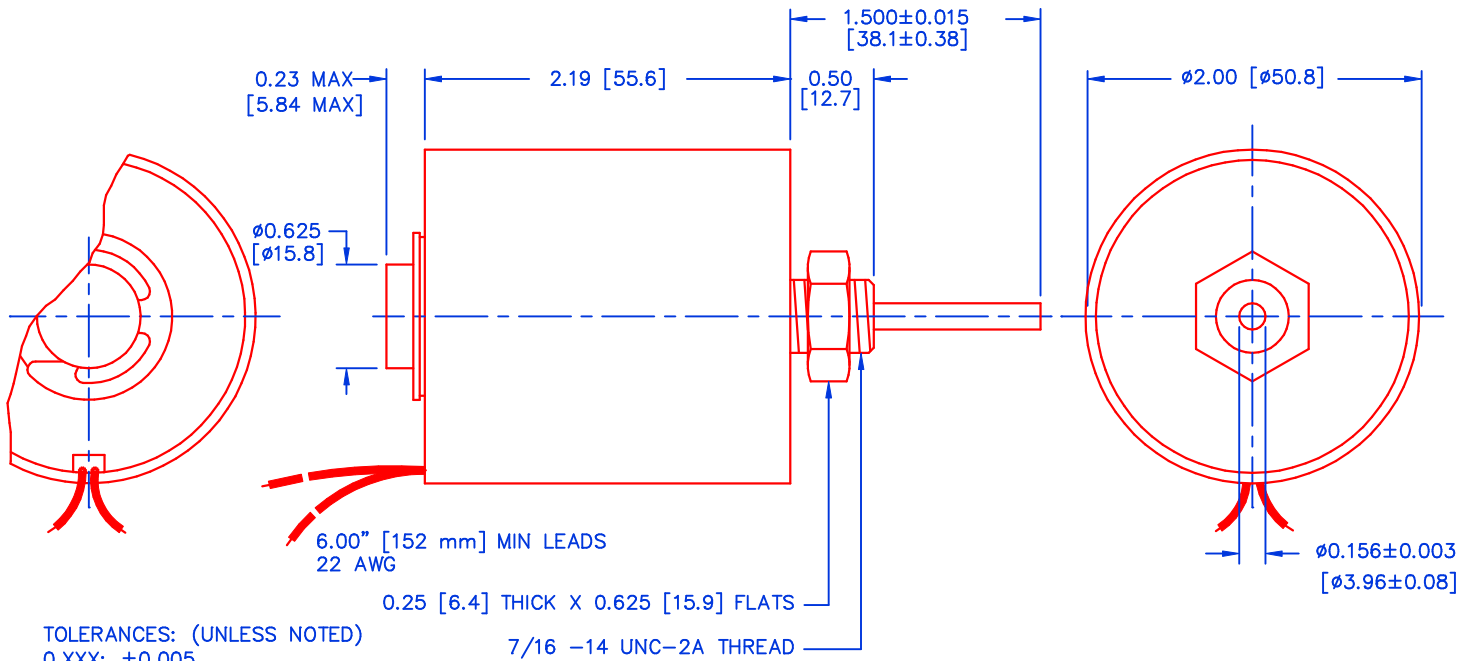
AWG number	resistance ( $\Omega$ )	volts DC	volts DC	volts DC	volts DC
18	1.0	4.0	5.6	7.9	12.5
19	1.7	5.0	7.0	9.9	15.7
20	2.6	6.1	8.7	12.3	19.4
21	4.2	8.0	11.2	15.9	25.1
22	6.6	9.9	14.0	19.9	31.4
23	10.8	12.7	17.9	25.4	40.1
24	17.1	15.7	22.2	31.4	49.6
25	27.1	20.1	28.5	40.3	63.7
26	43.6	25.6	36.2	51.2	80.9
27	68.2	31.9	45.1	63.8	101
28	110	40.9	57.8	81.8	129
29	172	51.3	72.6	103	162
30	281	64.6	91.3	129	204
31	446	82.1	116	164	260
32	685	102	144	203	321
33	1135	132	186	263	416
34	1940	172	243	343	542
35	3011	214	303	428	

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

# MAGNETIC SENSOR SYSTEMS

S-22-200-H

## MECHANICAL DIMENSIONS



TOLERANCES: (UNLESS NOTED)  
 0.XXX: ±0.005  
 0.XX : ±0.010  
 X/X: ±1/64  
 COIL RESISTANCE: ±10%  
 DIMENSIONS IN INCHES [mm]

SOLENOID SHOWN ENERGIZED

## TYPICAL PUSH FORCE VERSUS STROKE

