

DC Push Tubular Solenoid

Model TP4x12



Features:

High performance construction
Available return spring kit
DC applications only
See T4x12 for pull applications
RoHS Compliant
UL Recognized
Coil Termination: 6.5" Wire leads
26 AWG (standard)

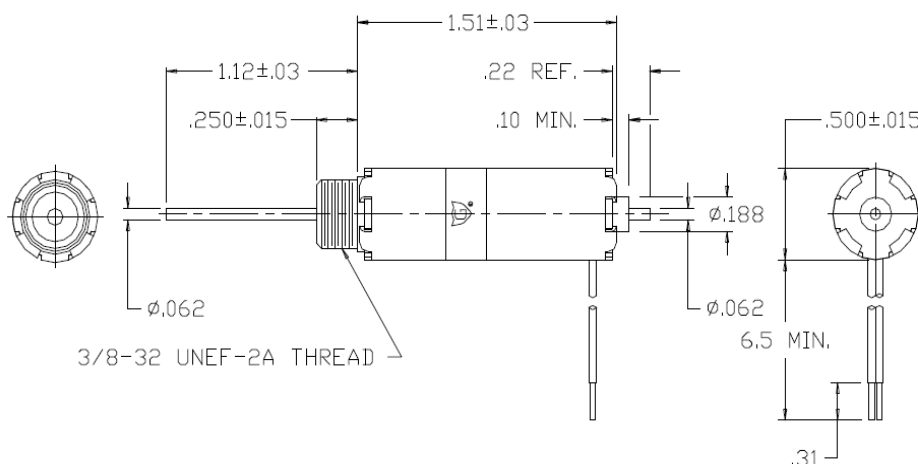
Electrical:

Coil Voltages: 6, 12, 24, 48, 110 VDC standard
Duty Cycle: 100% Continuous, 25% Intermittent,
10% Intermittent, 1% Pulse
Coil treatment: Tape Wrapped
Insulation Class: Class A Rating - 105° C (221° F)
Dielectric Strength: 1500V 60 Hz

Mechanical:

Size: 1.5" (L) x 0.5" (D)
Plunger Diameter: 0.062"
Plunger Guide Material: Plastic
Mounting: Hex Nut
Weight: Plunger 0.28 oz, Total 1 oz
Life Expectancy: 1 Million Cycles¹

¹ - Dependent on load conditions



Solenoid shown energized with plunger fully seated in extended position
Supplied with mounting bracket, hex nut and lock washer shipped loose

Standard Part Numbers

Model	Part Number	Duty Cycle	Voltage	Resistance ² (Ω)	Power (W)	Current
TP4x12-C-12	A420-066075-00	Cont.	12VDC	49.8	2.9	241 mA
TP4x12-I-12	A420-066076-00	Inter.	12VDC	24.7	5.8	486 mA
TP4x12-C-24	A420-066077-00	Cont.	24VDC	195	3	123 mA
TP4x12-I-24	A420-066078-00	Inter.	24VDC	96.7	6	248 mA

² - Coil resistance tolerance +/- 5%

Contact us for custom voltages or duty cycles

Available Customization:

- Plunger
 - Lead and Connector
 - DC Voltage / Duty Cycle
 - Termination
 - Insulation systems up to class H 180° C (356° F)
- * Minimum quantities apply

Typical Push Force Ounces [N] @ 20°C (68°F) (Distance from fully extended position)							HOLDING FORCE Ounces [N]	Power (W)
Stroke (in.)	0.050	0.125	0.250	0.375	0.500	0.625		
Continuous 100%	4 [1.1]	2 [0.6]	1 [0.3]	N/A	N/A	N/A	18 [5]	3
Intermittent 25%	7 [1.9]	3 [0.8]	1 [0.3]	N/A	N/A	N/A	20 [5.6]	6
Intermittent 10% ³	12.5 [3.5]	7.5 [2.1]	5 [1.4]	3.5 [1]	1.5 [0.4]	N/A	43 [12]	22.5
Pulse 1% ³	18.5 [5.1]	12.5 [3.5]	8.5 [2.4]	6 [1.7]	3.5 [1]	1.5 [0.4]	N/A	56.7

Continuous Duty 100% = 100% On Time

Intermittent Duty 25% = 25% On Time (100 Seconds On Max Followed By 300 Seconds Off)

Intermittent Duty 10% = 90% On Time (10 Seconds On Max Followed By 90 Seconds Off)

Pulse Duty 1% = 99% On Time (1 Second On Max Followed By 99 Seconds Off)

³ - Calculated force values to be verified in application

Optional Return
Spring Kit

A490-367460-15



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The information is subject to change without notice. © Guardian Electric

