

# Long-Life DC Tubular Solenoid



## Model LT4x12

### Features:

- Long life construction
- Plunger stop for quiet operation
- DC solenoid applications only
- UL recognized
- Stainless steel guide tube
- Teflon coated plunger



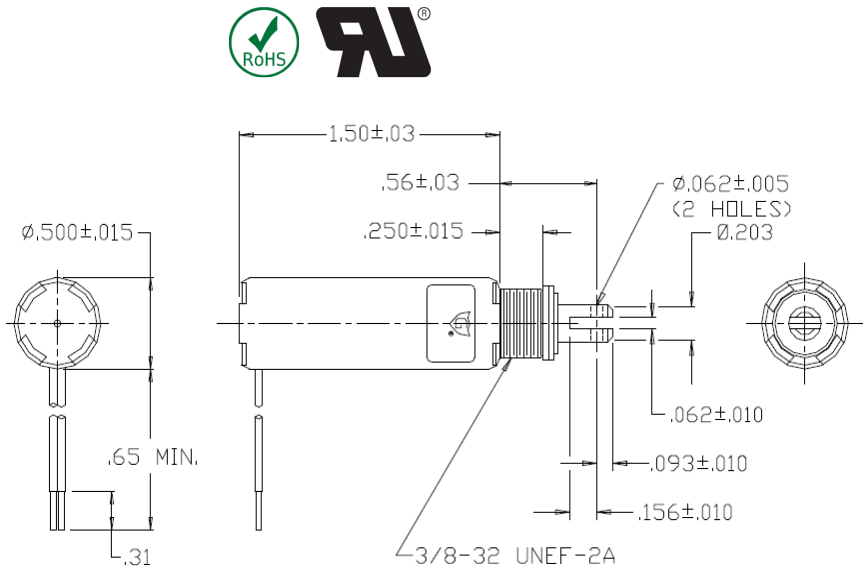
### Electrical:

- Coil Voltages: 6, 12, 24, 48, 110 VDC standard
- Coil Termination: 6.5" Wire leads  
26 AWG (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: 1.51" (L) x 0.5" (D)
- Plunger Diameter: 0.203
- Plunger Guide Material: Stainless Steel
- Mounting: Hex Nut
- Weight: Plunger 0.2 oz, Total 1.1 oz
- Life Expectancy: 10 Million Cycles<sup>1</sup>

<sup>1</sup> - Dependent on load conditions



### Standard Part Numbers

Model No.	Part No.	Duty Cycle	Voltage	Resistance <sup>2</sup> (Ω)	Power (W)	Current
LT4x12-C-12D	A420-064818-00	Cont.	12VDC	49.3	3.1	243 mA
LT4x12-I-12D	A420-064819-00	Inter.	12VDC	19.2	7.9	625 mA
LT4x12-C-24D	A420-064820-00	Cont.	24VDC	192	3.2	125 mA
LT4x12-I-24D	A420-064821-00	Inter.	24VDC	76.3	7.9	315 mA

<sup>2</sup> - Coil resistance tolerance +/- 5%

Contact us for custom voltages or duty cycles

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

### Available Customization:

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

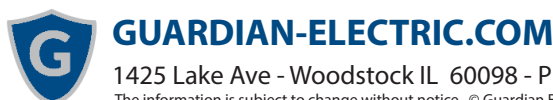
Stroke (in.)	Typical Pull Force Ounces [N] @ 20°C (68°F) (Distance from fully seated position)						HOLDING FORCE Ounces [N]	Power (W)
	0.050	0.125	0.250	0.375	0.500	0.625		
Continuous 100%	4 [1.1]	2 [0.6]	1 [0.3]	N/A	N/A	N/A	22 [6.1]	3.1
Intermittent 25%	7 [1.9]	3 [0.8]	1 [0.3]	N/A	N/A	N/A	25 [7]	7.9
Intermittent 10% <sup>3</sup>	25 [7]	16.5 [4.6]	8 [2.2]	5.5 [1.5]	2.5 [0.7]	1 [0.3]	32 [8.9]	23.6
Pulse 1% <sup>3</sup>	36 [10]	26 [7.2]	17 [4.7]	13 [3.6]	8 [2.2]	3 [0.8]	N/A	75.3

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)

<sup>3</sup> - Calculated force values to be verified in application

Optional Return Spring Kit

A490-367460-24D



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

