

DC Frame Solenoid

Model 4



1425 Lake Avenue, Woodstock, IL 60098

Features:

- Available return spring kit
- AC & DC Applications (See Model 4 AC)
- RoHS Compliant
- UL Recognized
- Coil Termination: 3/16" QC terminals

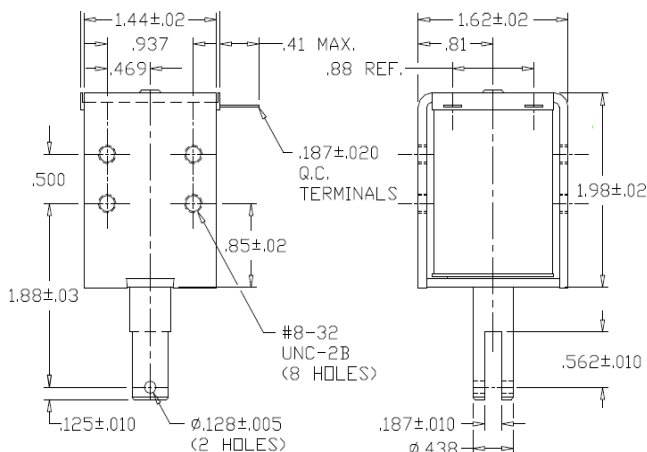
Electrical:

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

Mechanical:

- Size: 1.54" (L) x 1.62" (W) x 1.57" (H)
- Plunger Diameter: 0.50"
- Plunger Guide Material: Plastic
- Mounting: 8 - #8-32 holes
- Weight: Plunger 1.6 oz, Total 12.6 oz
- Life Expectancy: 1 Million Cycles¹

¹ - Dependent on load conditions



Solenoid shown energized with plunger fully seated

Standard Part Numbers

Model No.	Part No.	Duty Cycle	Voltage	Resistance ² (Ω)	Power (W)	Current
4-C-12D	A420-065942-00	Cont.	12VDC	15.8	9.6	759 mA
4-I-12D	A420-065943-00	Inter. 25%	12VDC	3.96	38.2	3.03 A
4-C-24D	A420-065944-00	Cont.	24VDC	61.3	9.9	392 mA
4-I-24D	A420-065945-00	Inter. 25%	24VDC	15.8	38.3	1.52 A

² - Coil resistance tolerance +/- 5%

Contact us for custom voltages or duty cycles

Available Customization:

- Plunger
- DC Voltage / Duty Cycle
- Coil Termination
- 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	0.750	1.000			
Continuous 100%	100 [27.8]	60 [16.7]	20 [5.6]	14 [3.9]	9 [2.5]	5 [1.4]	3 [0.8]	1 [0.3]	155 [43.1]	9.8	
Intermittent 25%	140 [38.9]	112 [31.1]	97 [27]	60 [16.7]	40 [11.1]	27 [7.5]	22 [6.1]	20 [5.6]	181 [50.3]	38.3	
Intermittent 10% ³	180 [50]	155 [43.1]	130 [36.1]	90 [25]	78 [21.7]	65 [18.1]	60 [16.7]	42 [11.7]	205 [57]	72.2	
Pulse 1% ³	218 [60.6]	195 [54.2]	165 [45.9]	135 [37.5]	120 [33.4]	110 [30.6]	100 [27.8]	70 [19.5]	N/A	146.8	

Optional Return Spring Kit
A490-367461-03

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



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Information contained in this specification sheet subject to change without notice. Guardian Electric ©

