



## Series 121 Tubular Solenoid



### GENERAL DESCRIPTION

● DC operated

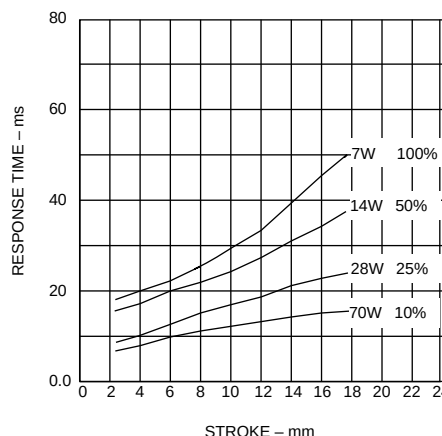
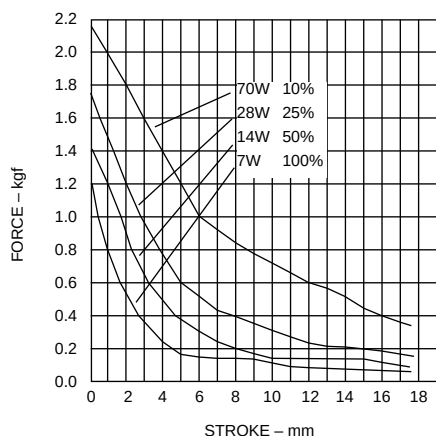
● Noise reduction feature

● Tubular solenoid

### PERFORMANCE

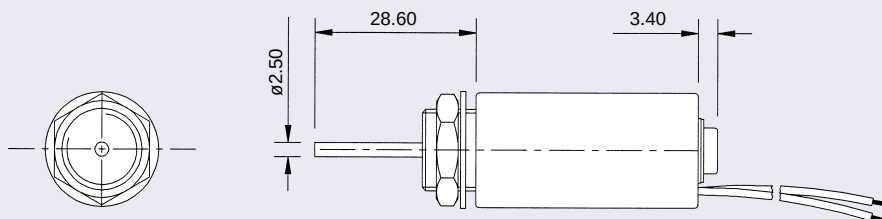
| Electrical | ITEM                              | SPECIFICATION                                                                                                                                                                                                               |
|------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Closed power (continuous ratings) | 7.0W                                                                                                                                                                                                                        |
|            | Maximum permissible voltage       | 160V DC                                                                                                                                                                                                                     |
|            | Dielectric strength               | 1KV RMS 50Hz                                                                                                                                                                                                                |
| Mechanical | Insulation                        | 1KV                                                                                                                                                                                                                         |
|            | Weight                            | Total: 82g      Plunger: 20g                                                                                                                                                                                                |
|            | Ambient temperature               | The information given on this page is based on a working temperature of 20°C.                                                                                                                                               |
|            | Force/stroke curve                | This force stroke curve shows average performance only with coil at ambient temperature.<br>In addition to normal manufacturing tolerances, deviations can be expected at some voltages due to the coil winding tolerances. |

### FORCE/STROKE CURVE AND RESPONSE TIME



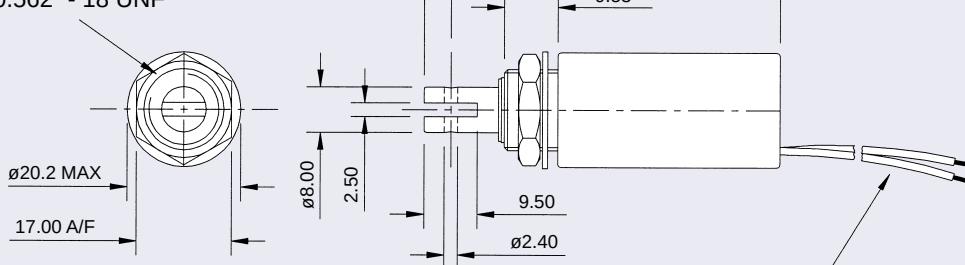
## DIMENSIONS (mm)

### Push type - shown energised



Pull type - shown energised

Thread: 0.562" - 18 UNF



Leads: 24 AWG UL1430  
Length: 152.0 minimum

## COIL DATA

| Pull Type           | Push Type       | Resistance (20°C)<br>Ω ±10% | Cont. (100%)<br>Vdc | 50%<br>Vdc | 25%<br>Vdc | 10%<br>Vdc |
|---------------------|-----------------|-----------------------------|---------------------|------------|------------|------------|
| 121 420 610 540     | 121 420 620 540 | 5.14                        | 6                   | 8.5        | 12         | 19         |
| 121 420 610 620     | 121 420 620 620 | 20.6                        | 12                  | 17         | 24         | 38         |
| 121 420 610 720     | 121 420 620 720 | 82.3                        | 24                  | 34         | 48         | 76         |
| Watts at 20°C       |                 |                             | 7                   | 14         | 28         | 70         |
| Max. on time (Secs) |                 |                             | ∞                   | 230        | 25         | 6          |

Other voltages available on request

$$\text{Duty cycle (\%)} = \frac{\text{"ON" time}}{\text{"ON" time} + \text{"OFF" time}} \times 100\%$$



BLP products are designed, manufactured and tested to ISO 9001 quality standards.

BLP reserve the right to change without prior notice the information contained in this leaflet.

**BLP.** Exning Road, Newmarket, Suffolk CB8 0AX, England

Tel: +44 (0)1638 665161

Fax: +44 (0)1638 660718

e.mail: [sales@blpcomp.com](mailto:sales@blpcomp.com)

web site: [www.blpcomp.com](http://www.blpcomp.com)

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