

# Ledex® Low Profile Size 1EC — Push or Pull

Size 1EC Medium Stroke, Conical Face  
Part Number: 123421-0XX

All catalog products manufactured after  
April 1, 2006 are RoHS Compliant

## Performance

|  |      |     |     |      |
|--|------|-----|-----|------|
| Maximum Duty Cycle   | 100% | 50% | 25% | 10%  |
| Maximum ON Time (sec)<br>when pulsed continuously <sup>1</sup> | ∞    | 100 | 36  | 7    |
| Maximum ON Time (sec)<br>for single pulse <sup>2</sup>         | ∞    | 162 | 44  | 8    |
| Watts (@ 20°C)   | 5    | 10  | 20  | 50   |
| Ampere Turns (@ 20°C)  | 340  | 480 | 680 | 1075 |

### Coil Data

| awg<br>(0XX) <sup>3</sup> | Resistance<br>(@20°C) | #<br>Turns <sup>4</sup> | VDC<br>(Nom) | VDC<br>(Nom) | VDC<br>(Nom) | VDC<br>(Nom) |
|---------------------------|-----------------------|-------------------------|--------------|--------------|--------------|--------------|
| 25                        | 0.83                  | 140                     | 2.1          | 2.9          | 4.1          | 6.5          |
| 26                        | 1.38                  | 186                     | 2.6          | 3.7          | 5.2          | 8.2          |
| 27                        | 1.91                  | 210                     | 3.2          | 4.5          | 6.3          | 10.1         |
| 28                        | 3.17                  | 273                     | 4.1          | 5.7          | 8.1          | 12.8         |
| 29                        | 5.17                  | 352                     | 5.1          | 7.2          | 10.2         | 16.2         |
| 30                        | 8.25                  | 441                     | 6.5          | 9.2          | 13.0         | 21.0         |
| 31                        | 12.95                 | 550                     | 8.2          | 11.6         | 16.4         | 26.0         |
| 32                        | 20.71                 | 682                     | 10.6         | 14.9         | 21.0         | 34.0         |
| 33                        | 30.60                 | 828                     | 12.7         | 18.2         | 26.0         | 41.0         |
| 34                        | 50.95                 | 1078                    | 16.5         | 23.0         | 33.0         | 52.0         |
| 35                        | 83.92                 | 1392                    | 21.0         | 30.0         | 42.0         | 67.0         |
| 36                        | 112.00                | 1500                    | 26.0         | 37.0         | 52.0         | 83.0         |

- Continuously pulsed at stated watts and duty cycle
- Single pulse at stated watts (with coil at ambient room temperature 20°C)
- Other coil awg sizes available — please consult factory
- Reference number of turns

## Specifications

|                               |   |
|-------------------------------|---|
| Dielectric Strength           | 1000 VRMS   |
| Recommended Minimum Heat Sink | Maximum watts dissipated by solenoid are based on an unrestricted flow of air at 20°C, with solenoid mounted on the equivalent of an aluminum plate measuring 3" square by 1/8" thick |
| Coil Resistance               | 25-35 awg, ±5%; 36 awg, ±10%  |
| Weight                        | 1.50 oz (42.5 gms)  |
| Holding Force                 | 5.4 lb (24.0 N) @ 105°C   |
| Dimensions                    | Ø1.000" x 0.530" L (See page G16)   |

## How to Order

Add the coil awg number (0XX) to the part number (for example: to order a 25% duty cycle unit rated at 6.3 VDC, specify 124910-027).

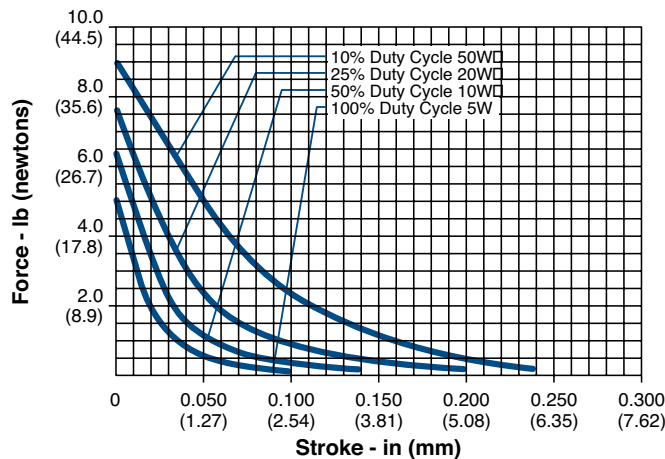
Please see [www.ledex.com](http://www.ledex.com) (click on Stock Products tab) for our list of stock products available through our North American distributors.

LINEAR Low Profile

- Well-suited for battery operation. See the "Battery Operated Solenoids" section for complete information.

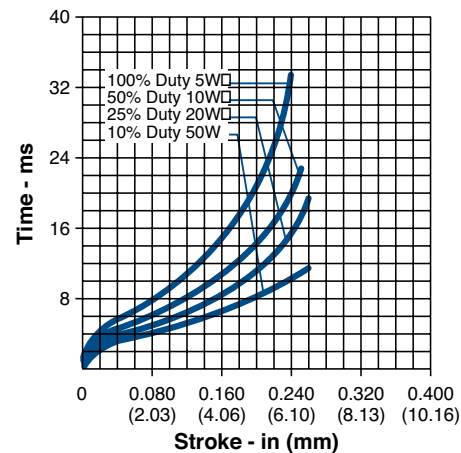


## Size 1EC — Typical Force @ 20°C



Force values for reference only.

## Size 1EC— Typical Speed @ No Load, 20°C



All specifications subject to change without notice.

