

# LP150 series

## Low profile trackball

Distinctive features and specifications



- ☐ 1.5" ball diameter
- ☐ Panel mount design
- ☐ Available in black or backlit illumination
- ☐ Several protocol options
- ☐ Additional button strips available
- ☐ Environmental Protection Classification (IP Rating): contact factory

### MECHANICAL

- Ball Diameter: 1.50" (38.10mm)
- Ball Rotation: Continuous in all directions
- Tracking Force: 10g (0.35oz)
- Weight: 118.5.5g (4.18oz)
- Life Cycle (ball rotations): 5 million
- Operating Temperature: -40°C to +85°C (-40°F to +185°F)

### CONFIGURATION OPTIONS

- LED backlighting: Red, Blue, Green or Clear through a translucent Thermostat resin ball
- Additional pushbutton switch: Two, three or four\* buttons (\* USB only) – see Button Strips
- Connector cables
- Conformally coated PCB

### PROTOCOL OPTIONS AND ELECTRICAL SPECIFICATIONS

- USB: Input: 4.00V – 5.25V @ 25mA max (+30mA for backlit illumination option)  
Output: USB 1.1
- PS/2 (2/3BTN PS/2): Input: 5.00V @ 25mA max (+30mA for backlit illumination option)  
Output: CMOS/TTL
- Microsoft Serial\*: Input: DTR/RTS @ 14 mA max (+30mA for backlit illumination option)  
Output: RS-232, Serial
- Quadrature: Input: 5.00V @ 30mA max (+30mA for backlit illumination option)  
Output: Quadrature Waveforms
- Sun Workstation: Input: 5.00V @ 30mA max (+30mA for backlit illumination option)  
(Mouse Systems Serial) Output: CMOS/TTL

### MOUNTING OPTIONS

- 180° horizontal to 90° vertical – please specify when ordering.

NOTE: \* = Microsoft Serial Interface requires a 5V supply for the LED backlighting option.  
All values are nominal.

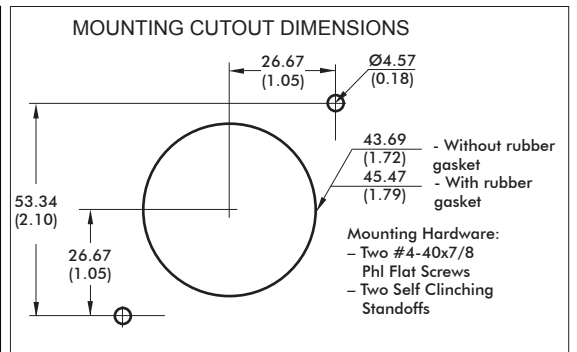
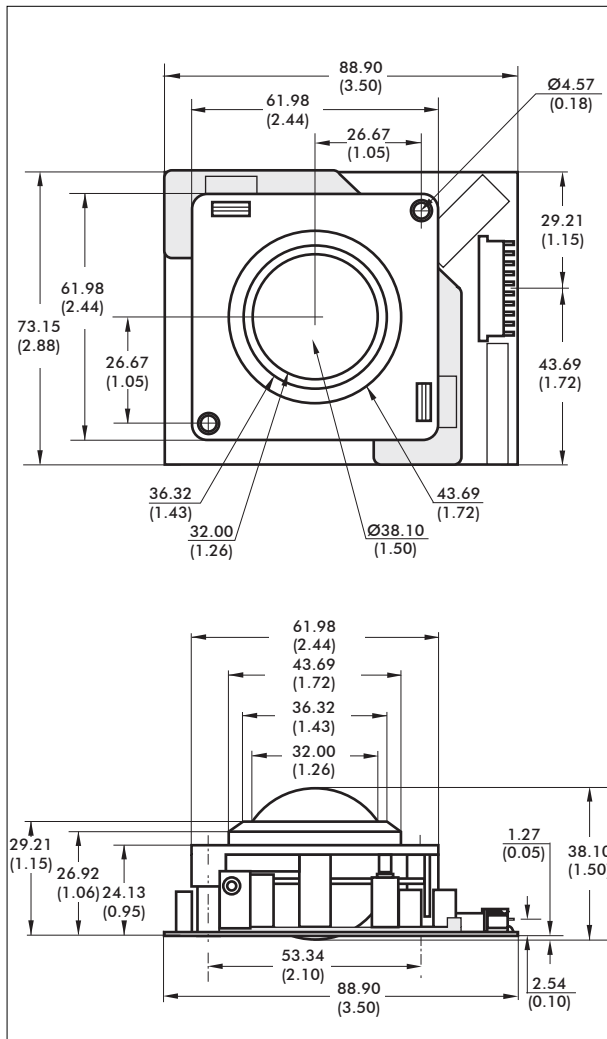
| LP     |                         |                                                                                               |                                                 |                                                                   |                                                |                                                 |
|--------|-------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------|
| SERIES | MODEL                   | PROTOCOL FORMAT                                                                               | MOUNTING POSITION                               | RESOLUTION                                                        | POWER REQUIREMENT                              | ILLUMINATION                                    |
| 150    | 1.50" Diameter (38.1mm) | 1 Microsoft (2 btn Serial)<br>3 PS/2 (2/3 btn)<br>5 Quadrature<br>6 SUN Workstations<br>7 USB | F - Level to 45°<br>N - Level to 90°<br>X - N/A | 10 - 120 resolution<br>20 - 240 resolution<br>30 - 480 resolution | V00 5V Regulated<br>R00 RS-232*<br>(DTR & RTS) | R Red<br>B Blue<br>G Green<br>C Clear<br>Black* |

\*Microsoft Protocol only

\*Non-illuminated

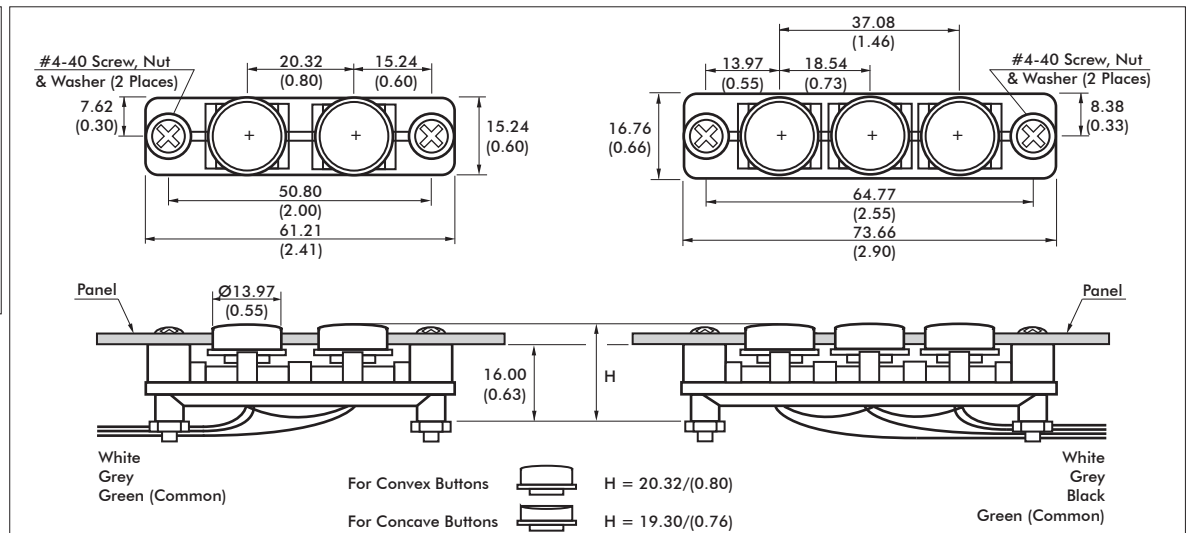
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### BUTTON STRIP FEATURES

- Two, three, or four\* (\*USB only) buttons
- Tactile feedback
- Normally open momentary contact switch
- 5 million lifecycles rating at 500mA at 12VDC
- Black or gray button caps
- Choice of convex or concave design



NOTE: All dimensions are in mm/(inch).

Note: The company reserves the right to change specifications without notice.