Z50

**INDICATE**

Universal 1 axis position indicator

- Connection to incremental and absolute Measuring Systems
- Actual Value Memory
- 7-digit LCD-Display, digit height 10 mm
- 2 digital Inputs
- Serial Interface
**Z50 Universal 1-axis position indicator**

**General:** With the 1–axis universal position indicator an all–purpose indicator has been realized. All ELGO measuring systems can be connected with this indicator no matter what signal needs to be processed (incremental or absolute). The indicator also comes equipped with an RS232 interface. The function and parameter menu is clearly laid out. It is clearly structured and easy to use.

The new Snap-In mounting allows an easy and quick installation in the defined panel cut out on the front side.

**Applications:** The versatile universal display can be used where distances, lengths, angles and speeds have to be measured. When used in woodworking machines typical applications are: backstops and rip fences on saws or depth measurement in drilling and grinding machines.

**Features:**
- 7-digit LCD-display
- Signs
- Special signs (f. e. degree, inch and millimeter display)
- 2 external inputs
- Easy mounting
- Off-set-function
- Switch-over between incremental and absolute measurement
- Switch-over between millimeter, inch and degree mode
- Actual value memory
- Adjustable reference value
- Adjustable pulse factor
- Adjustable edge evaluation

**ELGO measuring systems compatible to Z50:**

Every incremental and absolute measuring system by ELGO. Small extract from our product range. For more information, visit www.elgo.de.
**Technical specifications:**

**Position Indicator Z50-000**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD display</td>
<td>7 decades (digit height 14 mm)</td>
</tr>
<tr>
<td></td>
<td>With sign and measurement units</td>
</tr>
<tr>
<td>Measuring unit</td>
<td>mm, m, Inch, RPM or °</td>
</tr>
<tr>
<td>Perspective</td>
<td>12 o’clock</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Foil with soft keys</td>
</tr>
<tr>
<td>Measurement</td>
<td>linear or rotative</td>
</tr>
<tr>
<td>Power supply</td>
<td>+24 VDC +/- 20%</td>
</tr>
<tr>
<td>Power consumption</td>
<td>50 mA with 24 VDC</td>
</tr>
<tr>
<td>Max. current load for</td>
<td>300 mA</td>
</tr>
<tr>
<td>sensor connection</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0 … + 50°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 … + 80 °</td>
</tr>
<tr>
<td>Humidity</td>
<td>max. 80 %, non-condensing</td>
</tr>
<tr>
<td>Housing</td>
<td>Norm panel housing, ABS plastic, black</td>
</tr>
<tr>
<td>Housing dimensions</td>
<td>L x H x D = 96 x 72 x 31 mm (without seal)</td>
</tr>
<tr>
<td></td>
<td>L x H x D = 98 x 74 x 31 mm (with seal)</td>
</tr>
<tr>
<td>Installation depth</td>
<td>27 mm</td>
</tr>
<tr>
<td>Front panel cut out</td>
<td>B x H = 93 x 67 mm</td>
</tr>
<tr>
<td>Protection class front</td>
<td>IP 54 (when installed with sealing)</td>
</tr>
<tr>
<td></td>
<td>IP 43 (when installed without sealing)</td>
</tr>
<tr>
<td>Protection class back</td>
<td>IP 40</td>
</tr>
</tbody>
</table>

**Dimensions:**

- **Front view**
  - Dimensions: 74 x 72 mm
- **Side view**
  - Dimensions: 98 x 74 mm
- **Connectors**
  - Input 1 & Input 2

**Order reference:**

For orders, please use the following order code:

Z50 - _ _ _ - _ _ _ - _
A A A - B B B - C

A  SN-Number
000  ELGO Standard
001  First special version

B  Power supply
024  24 VDC

C  Signal input
0  A, B  24 VDC / 24V-HTL
2  A, A’, B, B’, Z, Z’  24 VDC / 5V-TTL
3  A, A’, B, B’, Z, Z’  5 VDC / 5V-TTL
5  EMAX / FMAX  (RS422)
6  A, B  5 VDC / 5V-TTL

For example:

Z50 - 0 0 0 - 0 2 4 - 0
A A A - B B B - C

Z50 ELGO standard, with 24 VDC power supply and A, B signal input.

**For your order:**

Z50 - _ _ _ - _ _ _ - _
A A A - B B B - C