CD050 potentiometric output – Measurement range 0 up to 1250 mm

Specifications:

Measurement range: 0 up to 1250 mm
Output signal: 1kΩ (other values on demand)
Resolution: Quasi infinite (depends on the operating system)
Material: Body and cover - Aluminium (RoHS)

Cable diameter: 0,51 mm
Detection element: Precision potentiometer
Connection: Male connector M16 – DIN 3 pin

Standard linearity: +/- 0,25% f.s. – stroke ≤500mm
              +/- 0,15% f.s. – stroke >500mm
              +/- 0,10% f.s. – stroke >500mm (option)
Protection class: 4PS4 (option IP67)
Max. Velocity: 10 M/S
Max. Acceleration: 40 M/S² (before cable deformation)
Weight: ≈ 700 g
Operating temperature: -20° to +80°C
Storage temperature: -30° to +80°C

Ordering reference:

Model
CD050

Measurement range

<table>
<thead>
<tr>
<th>Measurement range in mm</th>
<th>Min. pull-out force</th>
<th>Max. pull-out force</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>≈ 6,40 N</td>
<td>≈ 6,50 N</td>
</tr>
<tr>
<td>100</td>
<td>≈ 6,30 N</td>
<td>≈ 6,50 N</td>
</tr>
<tr>
<td>250</td>
<td>≈ 6,00 N</td>
<td>≈ 6,50 N</td>
</tr>
<tr>
<td>500</td>
<td>≈ 5,50 N</td>
<td>≈ 6,50 N</td>
</tr>
<tr>
<td>750</td>
<td>≈ 5,00 N</td>
<td>≈ 6,50 N</td>
</tr>
<tr>
<td>1000</td>
<td>≈ 4,50 N</td>
<td>≈ 6,50 N</td>
</tr>
<tr>
<td>1200</td>
<td>≈ 4,00 N</td>
<td>≈ 6,50 N</td>
</tr>
<tr>
<td>1250</td>
<td>≈ 4,00 N</td>
<td>≈ 6,50 N</td>
</tr>
</tbody>
</table>

Output signal

R01K = 1kΩ output

Linearity

L25 = +/- 0,25% f.s. (standard for measuring range from 0 to 500mm)
L15 = +/- 0,15% f.s. (standard for measuring range greater than 500 mm)
L10 = +/- 0,10% f.s. (option for measuring range greater than 500 mm)

Connection

C = Male connector M16 – DIN 3 pin
L4 = Male connector M12 – 4 pin
K = PVC cable – 4 wires + ex: 02 for cable 2 meters long

OP Options

AC = Complete anodizing
BT = Low temperature (down to -30°C)
CP = Fixing of the measuring cable with a clevis
EM = Fixing of the measuring cable with a clip
EN = Measuring cable coated with polyamide
IP67 = Protection class IP67
IX = Stainless steel measuring cable not coated (standard)
M4 = Fixing of the measuring cable with a M4 threaded rod
RAC = Cable dust wiper
TEV = Water evacuation holes

Reference example: CD50-0750-R01R-L15-X02-OP-AC-EN

Made in France
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Dimensional Drawing

Changes possible without further notice - Version 130425

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