

Spindle position displays

Hollow shaft max. $\varnothing 25$ mm, manual format alignment with actual value correction

Display LCD two lines, interface RS485

N 141



N 141 with cable output

Features

- Manual format alignment
- Button for display running value/tool radius
- Hollow shaft $\varnothing 20$ mm / $\varnothing 25$ mm
- Resolution: 2304 steps/revolution ± 4096 revolutions
- Display: LCD backlit, two lines
- Absolute multiturn measuring system
- Actual value and target display
- Interface RS485

Technical data - electrical ratings

| | |
|----------------------------|--|
| Voltage supply | 24 VDC ± 10 % |
| Current consumption | ≤ 30 mA |
| Display | LCD, 7-segment display, 2-lines, backlit |
| Measuring principle | Absolute multiturn measuring system |
| Measuring range | -999,99...+9999,99 mm -99.999...+999.999 inch |
| Steps per turn | 2304 |
| Number of turns | 4096 / 12 bit |
| Spindle pitch | ≤ 23 mm |
| Interface | RS485 (ASCII protocol) |
| Data memory | Parameter buffer: EEPROM Current value buffer: >10 years by integrated 3 V lithium battery |
| Programmable parameters | Display position horizontal/ vertical Measuring unit mm/inch Counting direction Spindle pitch Spindle tolerance Positioning direction Direction arrows Tolerance window Round up/down |
| Standard DIN EN 61010-1 | Protection class II Overvoltage category II Pollution degree 2 |
| Emitted interference | DIN EN 61000-6-3 |
| Interference immunity | DIN EN 61000-6-2 |
| Approval | UL approval / E63076 |

Technical data - mechanical design

| | |
|-------------------------|--|
| Shaft | $\varnothing 20$ mm hollow shaft $\varnothing 25$ mm hollow shaft |
| Operating speed | ≤ 600 rpm (short-term) |
| Protection DIN EN 60529 | IP 65 (housing), IP 40 (connector) |
| Operating temperature | -10...+50 °C |
| Storing temperature | -20...+70 °C |
| Relative humidity | 80 % non-condensing |
| Torque support | Torque pin provided at housing |
| Connection | - Cable output (30 cm) with male/female connector M16, 5-pin |
| Operation / keypad | Membrane with one key |
| Housing type | Surface-mount with hollow shaft |
| Dimensions W x H x L | 56 x 100 x 62.5 mm |
| Mounting | Surface-mount with hollow shaft |
| Weight approx. | 200 g |
| Material | Polycarbonate black, UL 94V-0 |

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