

NM170.213AA01

Manual format adjustment, through hollow shaft $\varnothing 25$ mm

Article number: 11726528

Overview

- Two-line backlit LCD display
- Through hollow shaft $\varnothing 25$ mm
- Interface: CANopen®
- 2 x connector M12, male/female, 5-pin
- Singleturn resolution: 2304 steps
- Multiturn resolution: 4096 / 12 bit
- Protection IP 55



Technical data

Technical data - electrical ratings

Voltage supply	24 VDC ± 10 %
Current consumption	≤ 30 mA
Current load	≤ 1 A (connection cable)
Display	LCD, 7-segment display, 2-lines, backlit
Number of digits	6-digits
Measuring principle	Absolute multiturn measuring system
Steps per revolution	2304
Number of revolutions	4096 / 12 bit
Spindle pitch	≤ 23 mm (programmable)
Interface	CANopen®
Profile conformity	CANopen® CiA Communication profile DS 301 LSS profile DSP 305 Device profile DS 406
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

Technical data - electrical ratings

Emitted interference	EN 61000-6-4
Interference immunity	EN 61000-6-2
Approval	UL approval / E63076
Technical data - mechanical design	
Shaft type	$\varnothing 25$ mm (through hollow shaft)
Operating speed	≤ 600 rpm (short-term)
Protection EN 60529	IP 55 (with mounted mating connector)
Operating temperature	-10...+50 °C
Storage temperature	-20...+70 °C
Relative humidity	80 % non-condensing
Resistance	EN 60068-2-6 Vibration ± 3.5 mm - 5-26.9 Hz, 10 g 26.9-500 Hz EN 60068-2-27 Shock 5 g, 30 ms
Torque support	Torque pin provided at housing
Connection	Connector 2xM12, male/female, 5-pin, cable length 300 mm
Dimensions	56 x 106 x 84 mm
Mounting type	Directly by means of grub screw
Weight approx.	370 g
Material	Polycarbonate black, UL 94V-0

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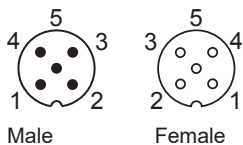
Description

The NM170 spindle position display supports setup engineers in manual alignment of shaft positions. The main benefits of the electronic spindle position display are time savings in setup and position alignment, as well as error prevention in the adjustment of new shaft position values. The absolute measuring system ensures detection of any position change even in zero-current status. The backlit LCD display provides the setup engineer with all information required for the alignment of new shaft positions. The two-line display provides both actual value and target value. Arrows signal setup engineers the shaft turning direction for the position alignment operation and also ensure backlash compensation.

Terminal assignment

Connector 2xM12, male/female, 5-pin

Pin	Assignment
1	Shield
2	+Vs
3	GND
4	CAN_H
5	CAN_L



CANopen® features

Operating modes	Timer-driven (Event-Time) Synchronously triggered (Sync) Asynchronous triggered (change of data)
Node Monitoring	Heartbeat consumer/producer
Programmable parameters	Scaling (spindle pitch) Target value of the spindle position Display parameters (measuring unit, display position, etc.) Spindle tolerance compensation CAN interface parameters
Default	Baud rate 125 kbit/s Node-ID 127 No terminating resistor

