Subject to modification in technic and design. Errors and omissions exce

Spindle position displays

Through hollow shaft max. ø14 mm, with infrared interface Format alignment by power tool, interface RS485

N 153



N 153 with cable output

Features

- Infrared interface for format alignment by power tool
- Two keys for format alignment touch by touch
- Through hollow shaft up to ø14 mm
- Resolution: 1440 steps/revolution ±4096 revolutions
- Display: LCD backlit, two lines
- Absolute multiturn measuring system
- Actual value and target display
- Interface RS485

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- LED status indicator

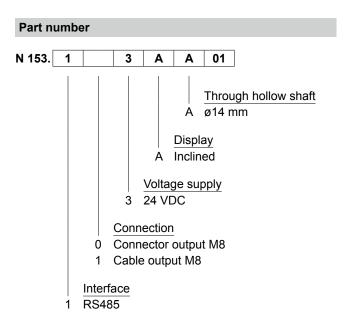
Technical data - electrical ratings		
Voltage supply	24 VDC ±10 %	
Current consumption	≤40 mA	
Display	LCD, 7-segment display, 2-lines, backlit	
Measuring principle	Absolute multiturn measuring system	
Measuring range	-99.99+999.99 mm -9.999+99.999 inch	
Steps per turn	1440	
Number of turns	4096 / 12 bit	
Spindle pitch	≤14 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 Spindle pitch Counting direction Spindle tolerance Positioning direction Direction arrows Tolerance window Round up/down	
Motive positioning	Two softkeys for format alignment Connected to power tool by infrared interface	
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 type	ø14 mm (through hollow shaft)	
Operating speed	≤600 rpm (short-term)	
Protection DIN EN 60529	IP 50, IP 54 (on request)	
Operating temperature	-10+50 °C	
Storage temperature	-20+70 °C	
Relative humidity	80 % non-condensing	
Torque support	Torque pin provided at housing	
Connection	 - Male/female connector M8, 4-pin - Cable output (30/15 cm) with male/female connector M8, 4-pin 	
Operation / keypad	Membrane with two keys	
Housing type	Surface-mount with hollow shaft	
Dimensions	37 x 75 x 45 mm	
Mounting	Surface-mount with hollow shaft	
Weight approx.	120 g	
Material	Polyamide black, UL 94V-0	

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Connectors and cables		
Z 178.A01	Adaptor cable between cable connector M8 and female M16, 1 m	
Z 178.AW1	Cable connector M8, 4-pin, without cable with integrated terminating resistor 120 $\boldsymbol{\Omega}$	
Z 178.B01	Female connector M8, 4-pin, without cable	
Z 178.D05	Data and supply cable M8, Master to N 150 and N 155, 5 m	

Cable connector M8, 4-pin, without cable

Coupling cable with M8 - M8, 1 m cable

Coupling cable with M8 - M8, 3 m cable

Coupling cable with M8 - M8, 5 m cable

Data and supply cable, ø5 mm, 4 cores, shielded, on 50 m drum

Coupling cable with M8 - M8, 10 m cable

Description

multicon AccuDrive is an economical system for mobile, motive format alignment. By AccuDrive positioning of shafts to the desired format is quick, accurate and less fussy hand crank operations. Saving setup times and avoiding editing errors are consequently the most convincing arguments. The electrically commutated professional power tool ASMIR serves as mobile actuator that communicates with N 153 spindle position displays by infrared interface. Red and green status LEDs provided at the position display indicate the operator which shafts require alignment. A flashing LED indicates the positioning order.

The power tool is a vital help in aligning the respective shafts to the new format. Select the desired positioning direction by aid of the two pushbuttons provided at the power tool. Press and hold the start button to start the positioning operation at slow speed with increasing acceleration. This way, the operator is able to proceed the positioning operation in direct sight with an accuracy of ±1/100 mm. Any shaft positions once effected can be filed under a parameter profile in the control to be recalled any time. By serial interface maximum 32 spindle position displays may be networked to PC or PLC. Through solutions are realized by memory controller N 242 as memory and operating terminal where max. 100 format profiles can be entered and saved by Teach-in.

Accessories

Z 178.S01

Z 178.V01

Z 178.V03

Z 178.V05

Z 178.V10

Z 178.050

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Terminal assignment

SPA - connector and female connector, 4-pin

Connector	Assignment	
Pin 1	Tx/Rx-, RS485	
Pin 2	Tx/Rx+, RS485	
Pin 3	Sensor supply +24 V	
Pin 4	Sensor supply 0 V	
	M8 connector	M8 female
		connector
////1430\\\\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	01/1/1/1/

Dimensions

