Target displays

Plug-on mount, enter key, manual format alignment

Display LCD two lines, interface RS485

N 155

N 155 with connector output

Features

- **Target display for manual format aligning**
- **One key permanently assigned as target**
- **Display: LCD backlit, two lines**
- **Actual value and target display**
- **Interface RS485**
- **With or without LED status display**

Technical data - electrical ratings

Voltage supply	24 VDC ±10 %
Current consumption	≤30 mA
Display	LCD, 7-segment display, 2-lines, backlit
Display range	-9999...+99999
LED operating status	Green: actual value = set value accepted Red: actual value ≠ set value
Interface	RS485 (ASCII protocol)
Data memory	>10 years in EEPROM
Programmable parameters	Measuring unit mm/inch Direction arrows Decimal point
Standard DIN EN 61010-1	Overvoltage category II Protection class 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

Protection DIN EN 60529	IP 54
Operating temperature	-10...+50 °C
Storage temperature	-20...+70 °C
Relative humidity	80 % non-condensing
Connection	- Male/female connector M8, 4-pin - Cable output (30/15 cm) with male/female connector M8, 4-pin - Cable output (30/15 cm) with male/female connector M16, 5-pin
Operation / keypad	Membrane with one softkey (handshake)
Housing type	Surface mount housing with mounting plate
Dimensions	37 x 75 x 29 mm
Mounting	Mount onto plate
Weight approx.	60 g
Material	Polyamide black, UL 94V-0

N 155

Part number

N 155. | **1** | | **3** | | **X01** |

Display
- B Horizontal at front
- C Horizontal at front with LED status

Voltage supply
- 3 24 VDC

Connection
- 0 Connector output M8 with male and female connector
- 1 Bottom cable output M8
- 2 Rear cable output M8
- 3 Bottom cable output M16

Interface
- 1 RS485

Description

The multicon spindle positioning system is completed by a target display indicating also positions of hand wheels, limits, linear units etc in close vicinity of the actuator. The backlit LCD display provides the editing engineer with the target parameters. A LED state indicator (red/green) that is optionally available enables comfortable visualization of the current alignment status even from remote.
The handshake key is saving the edited parameters. Serial interface RS485 enables network of maximum 32 target and spindle position displays with PC or PLC.
For complete solutions also memory controllers as decentralized operating and memory terminals are available.

Accessories

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 Ω
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
Z 178.S01	Cable connector M8, 4-pin, without cable
Z 178.V01	Coupling cable with M8 - M8, 1 m cable
Z 178.050	Data and supply cable, ø5 mm, 4 cores, shielded, on 50 m drum

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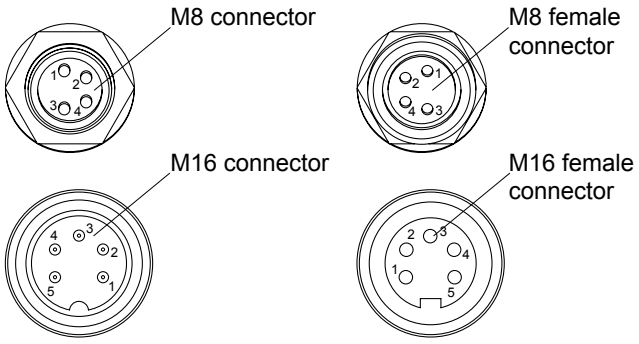
Terminal assignment

M8 connector	M16 connector	Assignment
Pin 1	Pin 5	Tx/Rx-, RS485
Pin 2	Pin 4	Tx/Rx+, RS485
Pin 3	Pin 1	Sensor supply +24 V
Pin 4	Pin 2	Sensor supply 0 V



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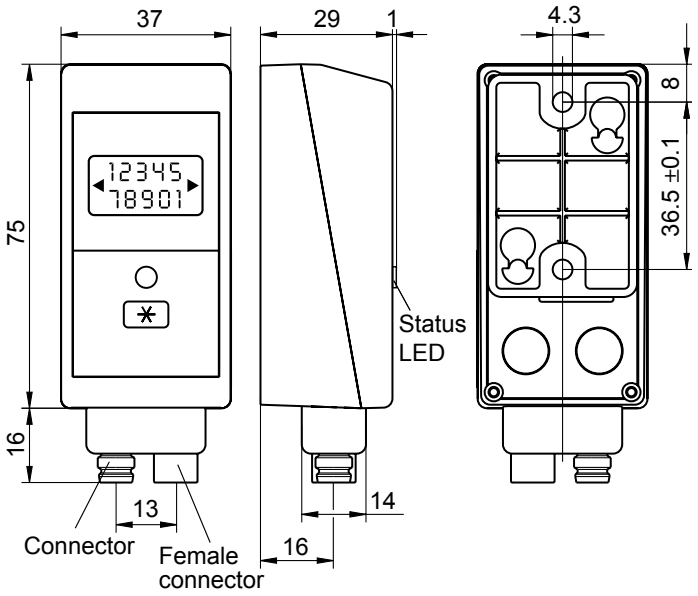
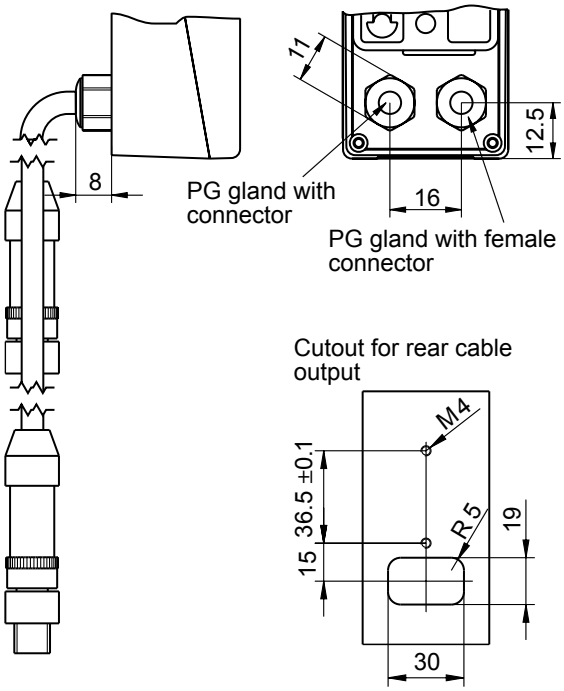
Dimensions

Connector male and female



Cable output rear, M8



Bottom cable output, M8 and M16