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# **BC50 MOTOR CONTROLLER**

## **Product description**

The BC50 motor controller is designed to control the NDW motorized E-rollers. Its primary function is to control both the speed and the direction of the motorized roller through a user friendly interface. A graphical user interface (LCD display) and straightforward buttons can be used to change the settings. Therefore, no dip switches are required. External control is possible using simple I/O control, i.e. by using a PLC.

### Intended use

The BC50 controller, in combination with NDW motorized E-rollers, can be used to drive conveyor systems in a wide range of industrial intralogistics and manufacturing applications.

## Key features

- User friendly interface
- Stand-alone operation or simple I/O control
- Protection against induced overvoltage of motorized E-roller
- Stall protection
- Energy efficient and low start-up current
- Speed and error feedback on graphical UI
- Both PNP and NPN compatible. Configurable in the settings.

# **PRODUCT INFORMATION**

#### **Technical Data**

Rated voltage	24Vdc
Voltage range	18Vdc to 26Vdc
Current consumption (idle)	0.1A
Current consumption (max load)	2A (1)
Startup current limit	2A (2)
Power consumption (max load)	50W (1)
Number of motorized E-roller connections	1
Protection rate	IP20
Ambient temperature in operation	0 °C to +40 °C, non-condensing
Compatible NDW E-rollers	ER-Series: 30, 50, 100, 400, 800 RPM
Speed and direction control	Graphical UI or via external I/O (PLC)
Stall protection for E-roller	Yes
Overvoltage protection for E-roller	Yes
Compatibility	PNP and NPN
Signaling	Graphical UI and Error signal (I/O)
Dimensions	133 x 55 x 27 mm
Max installation height	1000 m

1. Actual power consumption depends on the application conditions, such as actual load, section length, slope etc.

2. A very short current peak of <40ms will occur during startup of the E-roller.

## Available accessories

#### 24V power cable

24V power cable with one-sided connector, length 5000mm Article number: 901-10201

#### **Communication cable**

Communication cable with one-sided connector, length 5000mm Article number: 901-10202

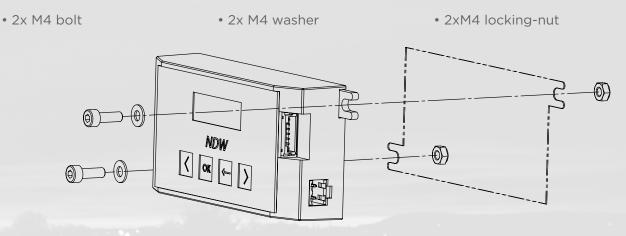
#### **E-roller extension cables**

Motor extension cable 1500 mm M8 6-pin A-coded, IP65, male to female, length 1500 mm Article number: 901-10100

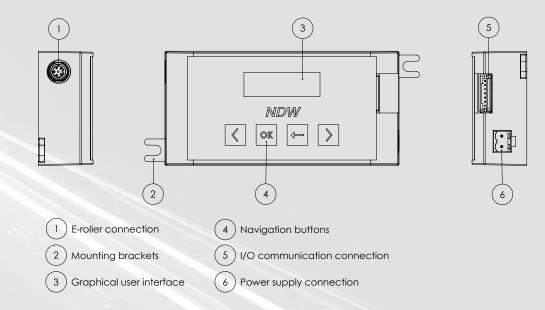
Motor extension cable 3000 mm M8 6-pin A-coded, IP65, male to female, length 1500 mm Article number: 901-10101

Custom cable lengths available on request.

## **Mounting Information**



# Components



## Dimensions

