

CONTROLS

DRIVECONTROL 54

For EC5000 24 V
20 W, 35 W, with analog interface



24V

48V

20W

35W

50W

AI

BI

Application area

Control of RollerDrive EC5000 in applications without start-stop operation, e.g. in roller curves. Mechanical engineering applications. Applications with PLC, but without fieldbus. Small applications with max. ten RollerDrive. Applications with splashing water (e.g. Sprinkler systems) or applications in deep freeze area.

Product description

The DriveControl 54 is a simple control for the RollerDrive EC5000. It does not contain any logic (e.g. for zero-pressure accumulation conveying) and requires external signals. The DriveControl 54 has a protection rating of IP54 and, as a result, is suitable for use in wet environments or deep freeze conditions.

DIP switches can be used to set the direction of rotation, a start and braking ramp and the speed in 15 increments. Digital inputs and outputs serve as interface to a higher-level control. Signals allow adjusting the direction of rotation and the speed in seven increments. The braking energy of the RollerDrive EC5000 is fed back into the DC supply system. The voltage fed back from the RollerDrive EC5000 is limited at 30 V by means of the integral brake chopper (voltage-dependently switched load resistance).

Functions

- Speed setting (DIP switches 15x, digital input 7x)
- Selection of direction of rotation (via DIP switches or digital input)
- Error signal output
- Status display with LEDs
- Voltage limitation via brake chopper



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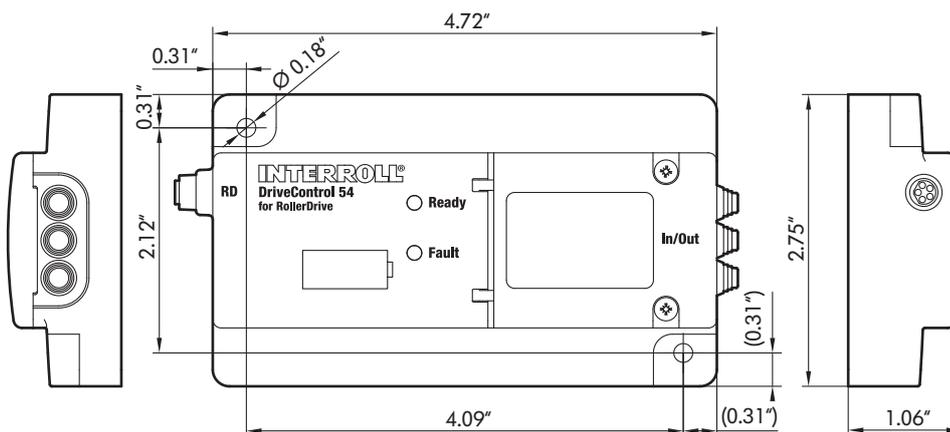
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Technical data

| Electrical data | |
|--|--|
| Rated voltage | 24 V DC |
| Voltage range | 19 to 26 V DC |
| Current consumption | DriveControl: approx. 0.5 A + current of RollerDrive EC5000* |
| Fuse | Present, non-replaceable |
| Protection rate | IP54 |
| Ambient conditions | |
| Ambient temperature in operation | -18 to 104 °F |
| Ambient temperature during transport and storage | -40 to 176 °F |
| Max. installation height above sea level | 3280 ft (at higher altitudes, a reduction of performance values is possible) |
| Cable cross-sections | |
| Power supply | Fine-wired, 1.5 mm ² (AWG 16) |
| Inputs/outputs (I/O) | Fine-wired, 0.08 to 0.5 mm ² (AWG 28 to 20) |

* The power of EC5000 depends on the application, e.g., conveying good weight, conveying speed, acceleration ramp, and on the EC5000 used (refer to the corresponding chapter).

Dimensions



Accessories

- RollerDrive EC5000 extension cable, page 62
- Switching power supply HP5424, page 52

Ordering information

Article number: S-1001416