



# DRIVECONTROL 54

The all-purpose interface for the RollerDrive EC310



## Product Description

**Properties** The DriveControl 54 is the all-purpose interface for the RollerDrive EC310. The direction of rotation and 15 different speeds can be set using DIP switches. Optically decoupled digital I/O's act as the interface to a higher-order controller. This enables, for instance, the direction of rotation of the 7 different speeds to be set from a PLC. The braking energy of the RollerDrive is fed back into the 24 V grid. The voltage fed back from the RollerDrive EC310 is limited at 26 V by means of the integral brake chopper (voltage-dependently switched load resistance).

- Functions**
- Speed adjustment (15 speeds internally, 7 speeds externally via I/O)
  - Choice of rotational direction
  - Start signal input
  - Rotational direction signal input
  - Fault signal output
  - LED status display
  - Sealed cable openings

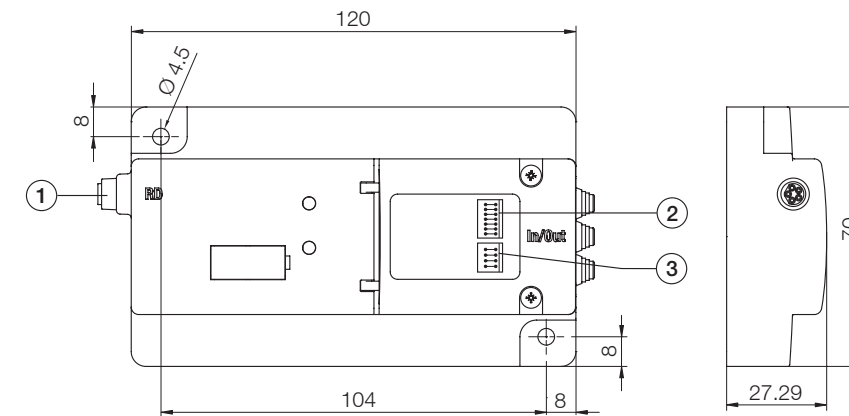
## Technical Data

Electrical data	
Rated voltage	24 V DC
Temporarily permissible voltage range	18 to 26 V DC
Permissible voltage undulation	3 %, recommended: < 1 %
Rated current	2.0 A
Max. start-up current	5.0 A
Fuse	present, non-replaceable
Protection rate	IP54
Ambient conditions	
Ambient temperature in operation	-28 to +40 °C
Ambient temperature during transport and storage	-30 to +80 °C
Max. temperature change	1 % in 3 h; 2 cycles in compliance with IEC 60068-2-14
Max. air humidity	90 %, non-condensing
Cable cross-sections	
Power Supply	Fine-wired, 1.5 mm <sup>2</sup> (AWG 16)
Inputs / Outputs (I/O)	Fine-wired, 0.08 to 0.5 mm <sup>2</sup> (AWG 28 to 20)

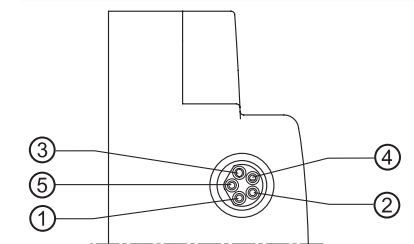
The effective current in the application depends on the conveyor weight, conveyor speed and number of cycles.

**Reference number: 89RB**

## Dimensions and Connections

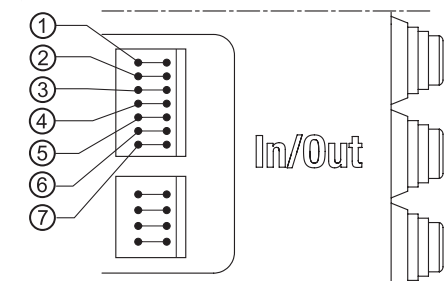


### Pos. 1 RollerDrive Connection



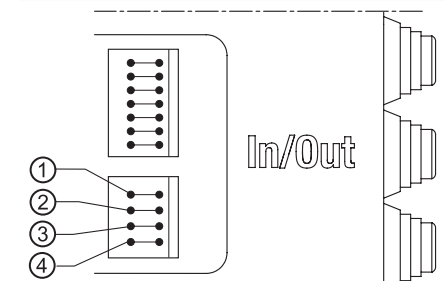
- |   |                       |
|---|-----------------------|
| 1 | +24 V DC              |
| 2 | Direction of rotation |
| 3 | Earth                 |
| 4 | Fault input           |
| 5 | Analogue speed output |

### Pos. 2 Inputs/Outputs



- |   |                       |
|---|-----------------------|
| 1 | Common signal mass    |
| 2 | 24 V input            |
| 3 | Fault output          |
| 4 | Direction of rotation |
| 5 | Speed C               |
| 6 | Speed B               |
| 7 | Speed A               |

### Pos. 3 Power Supply



- |   |          |
|---|----------|
| 1 | Earth    |
| 2 | +24 V DC |
| 3 | Earth    |
| 4 | +24 V DC |