**Application area**
Zero-pressure accumulation (ZPA) conveying for systems with medium to high number of conveyor zones. Applications with or without PLC, but without fieldbus.

**Product description**
The ZoneControl is a single-zone control for a RollerDrive EC5000 and a zone sensor. The ZoneControl can be used to create stand-alone, zero-pressure accumulation conveyors which require no higher-level control (PLC). Additional functions and communication to upstream and downstream conveyors can be implemented via digital inputs and outputs (I/Os).

The advantage is that the ZPA logic is contained in the ZoneControl and does not have to be programmed within a PLC. DIP switches can be used to set the RollerDrive speed and direction of rotation as well as the logic (single or train release). For all ZoneControl connected with each other, the speed can also be changed with an analog signal and a cumulative error signal can be read out.

The wiring of the voltage supply is done via switching wire and communication using commercial CAT5 cables (Ethernet cable). The ZoneControl is only partially suited when a tracking of conveying goods or the control of the RollerDrive with start and brake ramps is being planned or a large number of additional functions is to be used.

The ZoneControl shows its strength in the fact that it does not have to be addressed, which makes an exchange in case of a failure extremely easy, and it can easily be configured with DIP switches.
CONTROLS
ZONECONTROL
For EC5000 24 V
20 W, 35 W, with analog interface

Functions
- Logic for zero-pressure accumulation conveying incl. initialization
- Communication with upstream and downstream zones via peer-to-peer connection
- Speed setting in 8 increments via DIP switches or analog signal
- Direction of rotation setting via DIP switches or external digital signal
- Connection of a zone sensor
- Connection of a start sensor for the start of the conveyor line
- Determination of NPN or PNP switching logic
- Switching a second RollerDrive into the zone
- Additional functions: Running the conveyor empty, error signaling of all connected zones, external start or stop signal
- Voltage limitation via brake chopper

Technical data

<table>
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<tr>
<th>Electrical data</th>
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<td>Rated voltage</td>
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<td>Voltage range</td>
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| Current consumption              | ZoneControl with sensor: approx. 0.2 A+
|                                  | current of RollerDrive EC5000* |
| Fuse                             | Present, non-replaceable |
| Protection rate                  | IP20 |
| Ambient conditions               |
| Ambient temperature in operation | 0 to +40 °C |
| Ambient temperature during transport and storage | −40 to +80 °C |
| Max. installation height above sea level | 1000 m** |

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<tr>
<th>Cable cross-sections</th>
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<td>Power supply</td>
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<td>Inputs/outputs (I/O)</td>
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* 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).

** The installation in systems at an altitude above 1,000 m is possible. However, this can lead to a reduction of the performance values.
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Dimensions

Accessories

· RollerDrive EC5000 extension cable, page 77
· Power supply HP5424, page 68

Ordering information

· Article number: S-1004023
· Scope of supply: Plug for voltage supply, plug for inputs and outputs, one plug each for start and zone sensor, polymer tool for cabling