

# CONTROLS

## CONVEYORCONTROL

For EC5000 24 V

20 W, 35 W, with analog interface



24V

48V

20W

35W

50W

AI

BI

### Application area

With CentralControl:  
zero-pressure accumulation conveying (ZPA) of many zones without connected PLC. Or ZPA with input from a PLC connected via digital inputs and outputs.  
With GatewayControl:  
Zero-pressure accumulation conveying (ZPA) of many zones with input, diagnostics or tracking from a PLC – connected via fieldbus.

### Product description

The ConveyorControl system includes the GatewayControl, the CentralControl, the SegmentControl and the ComControl (page 55).

Cost-efficient, commercially available flat cables are used for wiring the communication and voltage. All settings are made with a Windows-based software – the Configurator. The software simplifies addressing and enables GUI-supported parameter setting of up to 200 RollerDrive and sensors simultaneously. The configuration of an existing application can be read out from the controls and changed as needed.

The advantage is that the ZPA logic is included and does not have to be programmed within a PLC. The ConveyorControl system allows tracking conveying goods and offers a large number of setting options and additional functions. For the control of up to 200 RollerDrive EC5000, only one IP address (EtherNet/IP) is required.



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## Possible applications

| Use of a PLC   | Recommended products                       | Description  |
|--|--|--|
| No   | CentralControl, SegmentControl, ComControl | ConveyorControl uses its own ZPA logic<br>A start sensor can be connected to the ComControl  |
| Yes, no fieldbus   | CentralControl, SegmentControl, ComControl | ConveyorControl uses its own ZPA logic<br>Wherever a PLC has to be effective, a ComControl is placed for the communication to the PLC via digital inputs/outputs   |
| Yes, communication via PROFIBUS, PROFINET or EtherNet/IP | GatewayControl and SegmentControl          | ConveyorControl uses its own ZPA logic <ul style="list-style-type: none"> <li>• PLC receives the status of all sensors, RollerDrive and error information, if applicable, via the fieldbus</li> <li>• PLC takes effect via corresponding control commands</li> </ul> |

## Technical data

The technical data apply to all controls of the ConveyorControl system.

| Electrical data                                  |   |
|--|---|
| Rated voltage                                    | 24 V DC   |
| Voltage range                                    | 19 to 26 V DC   |
| Current consumption                              | CentralControl/GatewayControl: approx. 0.15 A<br>SegmentControl/ComControl: approx. 0.05 A + connected sensors and actuators + current of RollerDrive EC5000* |
| Fuse   | Present, non-replaceable  |
| Protection rate                                  | IP54  |
| Ambient conditions                               |   |
| Ambient temperature in operation                 | -30 to +40 °C   |
| Ambient temperature during transport and storage | -40 to +85 °C   |
| Max. installation height above sea level         | 1000 m**  |

\* 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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### SegmentControl

The SegmentControl is used in every ConveyorControl system. It controls up to two zones of a conveyor. Each zone consists of a RollerDrive EC5000, several conveyor rollers, and a zone sensor. Additional inputs and outputs are not available.

48V

20W

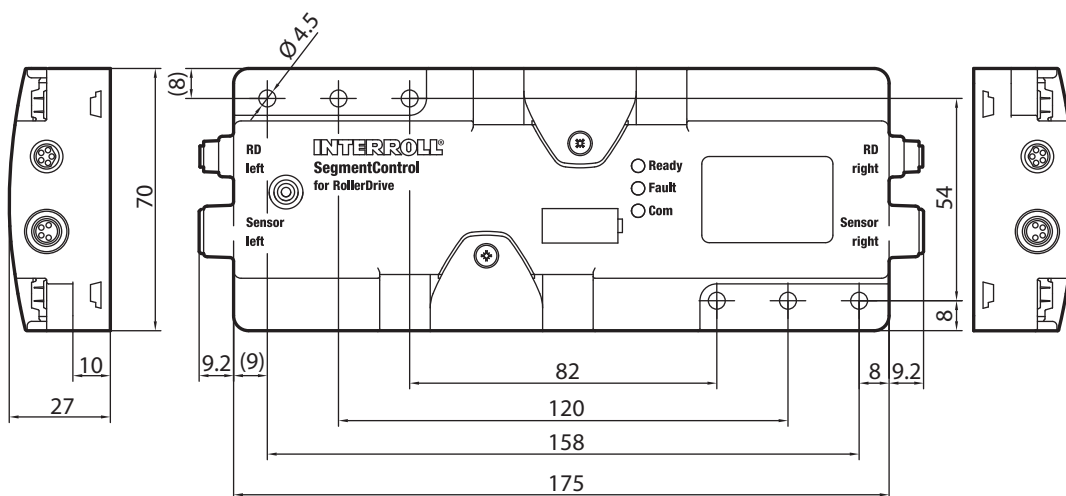
### Dimensions

35W

50W

AI

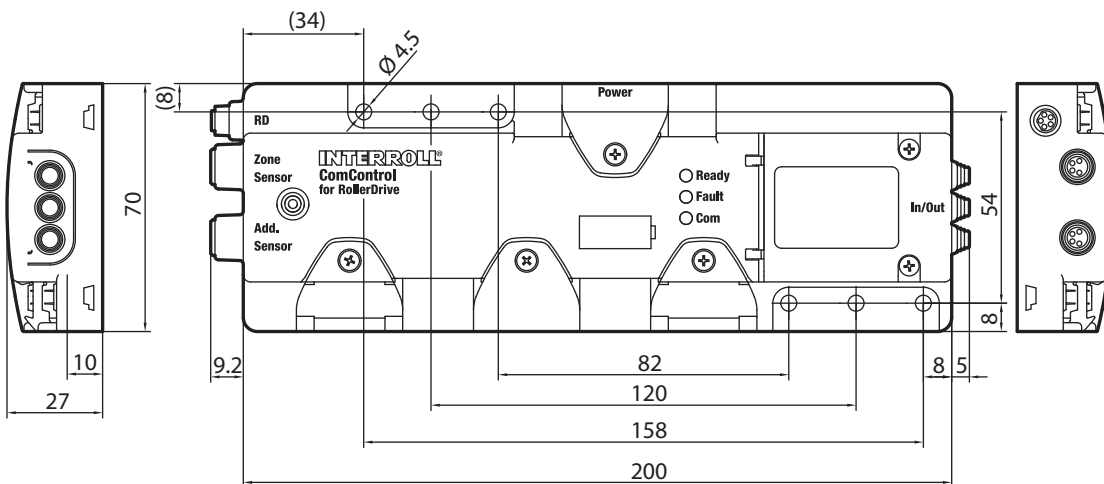
BI



### ComControl

The ComControl controls a zone (RollerDrive and zone sensor). The ComControl is used if inputs or outputs are required or an additional line of the communication cable must be branched off. For this purpose, it features two additional inputs, three additional outputs and one additional connection for the communication cable (right or left). One or several ComControl are generally used when a CentralControl is being used so that it is not possible to activate additional functions with a fieldbus.

### Dimensions



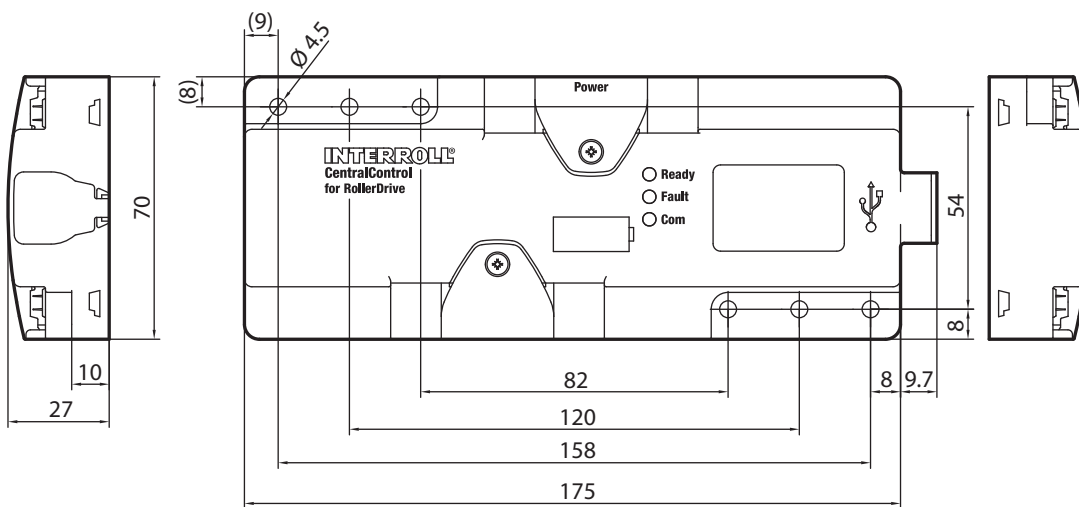
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## CentralControl

The ConveyorControl system requires either a CentralControl or a GatewayControl. CentralControl controls the data exchange between the controls. A USB port allows the connection of a printer. With the help of the computer and the configuration software, all controls can be addressed and parameterized. Up to 100 SegmentControls or ComControls, that is, approximately 200 zones, can be connected to one CentralControl.

## Dimensions



## GatewayControl

The ConveyorControl system requires either a GatewayControl or a CentralControl. GatewayControl controls the data exchange between the controls. A USB port allows the connection of a printer. With the help of the computer and the configuration software, all controls can be addressed and parameterized. Up to 100 controls, that is, approximately 200 zones, can be connected to one GatewayControl. But the crucial difference to the CentralConsole is the interface function to a fieldbus via an M12 connector. For the fieldbuses PROFIBUS, PROFINET or EtherNet/IP, the GatewayControl enables the connection to a PLC.

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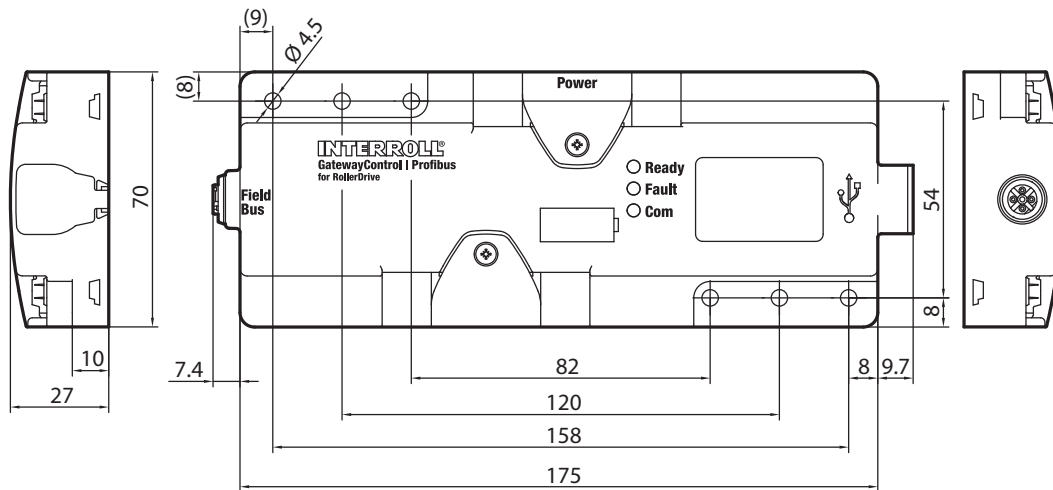
35W

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## Dimensions



## Accessories

- RollerDrive EC5000 extension cable, page 77
- Power supply HP5424, page 68
- Magnetic key, page 81
- Flat cable for voltage supply, page 78
- ConveyorControl communication cable, page 78
- ConveyorControl termination box, page 80
- Cable bridge for flat cable, page 80

## Ordering information

| Control                    | Article number | Scope of delivery  |
|----------------------------|----------------|--|
| GatewayControl PROFIBUS    | S-1004026      | USB stick with Configurator software; dummy plug for flat cable; magnetic key, termination box |
| GatewayControl PROFINET    | S-1100275      | USB stick with Configurator software; dummy plug for flat cable; magnetic key, termination box |
| GatewayControl EtherNet/IP | S-1101732      | USB stick with Configurator software; dummy plug for flat cable; magnetic key, termination box |
| CentralControl             | S-1004027      | USB stick with Configurator software; dummy plug for flat cable; magnetic key, termination box |
| SegmentControl             | S-1004024      | Dummy plug for flat cable, one RollerDrive input and one sensor input                          |
| ComControl                 | S-1004025      | Dummy plug for flat cable and one sensor input; two flat cable pieces                          |