CONTROLS MULTICONTROL AI

control. This means that up to four

drives and four zone sensors can

be connected. The use of Y-cables

enables connecting four additional

inputs or outputs. The connections

can be configured individually.



24V

48V

20W

35W

50W

. .

BI

Product descriptionMultiControl is multi-protocol-capable. PROFINET, EtherNet/IP and EtherCat can be used via simple switching.

A standard flat cable is used for power supply. They can simply be cut to the desired length and can be connected very quickly using the piercing technology of MultiControl.

The separate voltage supply allows a safe power-off of the RollerDrive while the bus communication and sensors can continue to be used.

Addressing and naming is done over PLC software, a web user interface, or with the Interroll teach-In method. With the Teach-In method, automatic addressing and configuration of all MultiControl is possible. In addition, the sequence of all MultiControls in the conveyor line can be determined. This saves time during the commissioning on site.



CONTROLS MULTICONTROL AI

Functions

- · Easy handling One control card for PROFINET, EtherNet/IP and EtherCat (simple toggling of bus protocols)
- · Independent power supply for RollerDrive
- · Plug & Play in case of replacements no addressing or configuration required
- · Status display with LEDs for all functions and I/Os
- \cdot Integrated logic for zero-pressure accumulation conveying incl. initialization
- · Secure communication with the use of certificates: PROFINET Conformance Class B, EtherNet/IP ODVA Conformance, EtherCat Conformance
- · Configuration via PLC, web browser menu and via teach-In method of:
 - Speed, direction of rotation, start and stop ramp of RollerDrive
 - Sensor properties
 - Timer
 - Error handling
 - Logic (single/train release)
- · UL-listed
- · Voltage limitation via brake chopper
- · Variable process images for optimizing the data volumes transferred between MultiControl and PLC
- · Functional ground connection for shield of communication line
- · Polarity reversal protection of voltage supply
- · Short circuit-proof design of voltage supply of inputs and outputs

Possible applications

Use of a PLC	Function of a PLC	Function of MultiControl
No	• None	Implementation of ZPA logic
Yes	Influencing the ZPA logicTracking of conveying goodsError diagnostics	Implementation of ZPA logicImplementation of PLC specifications
Yes	 The PLC must be programmed and controls all connected RollerDrive via this program Tracking of conveying goods and error diagnostics 	 Function as input/output card Transmits the status of all sensors, RollerDrive and, if necessary, error information to the PLC

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CONTROLS MULTICONTROL AI



48V

20W

35W

50W

BI

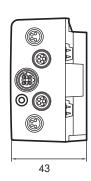
Technical data

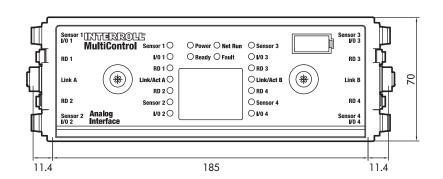
Electrical data	
Rated voltage	24 or 48 V DC
Voltage range	24 V DC: 22 to 27.5 V DC 48 V DC: 44 to 51.5 V DC (voltage supply of RollerDrive only)
Current consumption	Logic supply voltage: MultiControl: max. 0.2 A + connected sensors/actuators = max. 1.6 A + current of RollerDrive EC5000*
Fuses	For logicFor RollerDriveFor sensors and I/Os, can be reset
Protection rate	IP54
Ambient conditions	
Ambient temperature in operation	-30 to 40 °C
Ambient temperature during transport and storage	-40 to 80 °C
Max. installation height above sea level	1000 m**

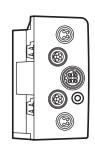
^{*} The power of EC5000 depends on the application, e.g., conveying good weight, conveying speed, acceleration ramp, and on the EC5000 used (refer to the corresponding chapter).

Dimensions

MultiControl



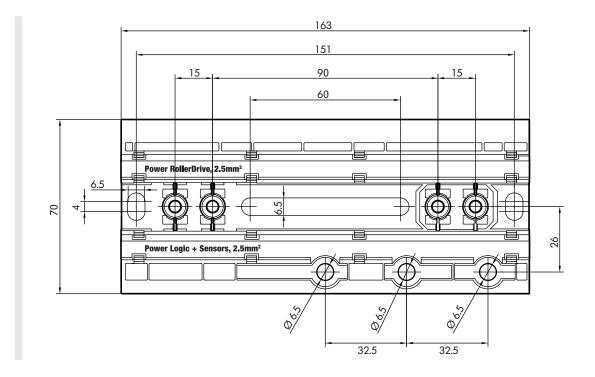




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^{**} The installation in systems at an altitude above 1000 m is possible. However, this can lead to a reduction of the performance values.

Base plate



To be able to position the magnetic key, the distance from the top edge of MultiControl to adjacent components must be at least 10 mm.

Accessories

- · Flat cable for voltage supply, page 93
- Magnetic key, page 96
- MultiControl dummy plug, page 95
- · RollerDrive EC5000 extension cable, page 93
- · MultiControl communication cable, page 94
- · MultiControl Y-cable, page 94
- · Switching power supply HP5424, page 82
- · Switching power supply HP5448, page 86
- · Cable distribution, page 95
- · Shield connection cable, page 95

Ordering information

Article number: S-1103563Scope of supply: Base plate

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