

Technical data:

Supply voltage	230 V/AC 50/60 Hz
On-site fuse protection	max. 10 A
Power consumption	max. 6 Watt
Switching current	max. 6 A
Switching capacity	max. 1300 VA
IP Code	IP 54
Internal fuse	6.3 A slow-blow
Dimensions/weight	180 x 130 x 60 mm/approx. 1 kg
Operating temperature	-10 to +50 °C
TÜV-certified	EN 12453
PL c/Cat. 2 as per EN ISO 13849-1:2008 for the safe function of the door-edge security system	

Important notes for assembly

1. The DoorControl is to be installed on an even, oscillation- and vibration-free surface in a vertical mounting position at a minimum height of 1.5 m of the door with a complete view of the movement range of the door.
2. Install operating pushbuttons or key switches close to the door with a complete view of the movement range of the door.
3. Open the control box and connect the motor cable to the controller
4. Motor feed cable: max. 15 m long, min. 0.75 mm²
5. Plug in the membrane keyboard with the correct orientation (pay attention to the coding)
6. Plug in the earthed plug; LED 1 on the control PCB lights up.
7. Control of the sense of rotation: press the UP button; the drive moves in the upward direction.
- if this is not the case, unplug the earthed plug from the mains and swap the motor wires U + V.
8. Plug in the earthed plug again and check the direction of rotation once again.
9. Refer to the operating instructions for the drive for the limit switches setting.
10. Connect the operating devices only with the power turned off.

Operating modes

DIP 3 and DIP 4 are omitted in the DoorControl for roller grilles

Setting on switch block S 1	DIP switch setting		
Dead-man maintained mode	DIP 1		Dead-man mode in OPEN and CLOSE only in OPEN without programmed motor running time
	DIP 1		
Reverse travel to limit switch Free travel	DIP 2		The direction is switched to upward if the door-edge security system is activated.
	DIP 2		
Relay K3 switches for one pulse (approx. 1 sec.)	DIP 3		Light control via stair light timer switch etc. with each open command
	DIP 4		
Relay K3 switches approx. 120 sec.	DIP 3		Direct light control (light bulb etc.) with each open command
	DIP 4		
Relay K3 outputs a persistent command on error	DIP 3		e.g. running time exceeded
	DIP 4		
Relay K3 switches on at the open end position (green traffic light)	DIP 3		To red-green traffic light control
	DIP 4		

General information

The DoorControl is designed for the automatic operation of door systems with 230 V single-phase motors.

The controller is delivered with a 1.5 m long connecting cable with an earthed plug and a membrane keypad (Up-Stop-Down) built into the housing cover.

The automatic closing system, with or without radio receiver, is integrated in the controller.

All signal inputs work on 24 V direct voltage and are electrically isolated via opto couplers. A 24 V DC power supply unit (max. 150 mA) is integrated for the supply of light barriers and control devices.

Brief description - DoorControl

- Motor running time monitor can be programmed (must be programmed in maintained mode [DIPI])
- Diagnosis display via LED
- Connection of a door-edge security system. Opto-electronic safety edge (OSE) from Witt or Fraba or an 8.2 kohm resistance safety edge.
- Testing of the signal path (in the case of defective door-edge security system in CLOSE dead-man mode)
- Connection option pre-end switch CLOSE
- Connection option light barrier CLOSE
- Coding option: dead-man mode/maintained mode (DIP 1)
- Coding option: free travel/reverse travel to open end position on activation of the door-edge security system (DIP 2)
- Coding option: light control pulse/120 seconds, fault alarm or green traffic light
- Radio receiver integrated or pluggable via pin strip
- External radio receiver can be connected
- Connection option: red traffic light, lights up during a door movement, flashes in intermediate positions and flashes with increased frequency in the case of an error (running time, door edge etc.)
- DoorControl for rolling doors only
Connection option: garage lighting/fault alarm or green traffic light.
- *DoorControl for roller grilles only*
Connection of the "ingress protection light barrier test unit for 2 one-way light barriers" or a one-way light barrier.

Functions

▶ Motor running time monitor

The DoorControl features a programmable motor running time monitor, which switches the drive off automatically if the motor running time is exceeded. To programme the motor running time, move the drive to the Door CLOSED position. Place DIPI in the ON position. Briefly press the programming button S3; LED 2 lights up; now move the drive in maintained mode upward until the Door OPEN limit switch is reached. LED 2 goes out; the motor running time is programmed. If the programming button S3 is pressed for longer than 5 sec. (LED 2 goes out), the motor running time monitor is reset to 0 sec.

▶ Door edge security system (OSE or 8.2 kOhm)

If the door-edge security system is actuated during CLOSING travel, the control system switches to the upward direction. (reverse or free travel). If the CLOSED pre-end switch is actuated, the drive stops. If the door-edge security system is defective, the drive can be moved in dead-man mode using the built-in membrane keypad and external triple pushbutton.

▶ Light barrier

If the light barrier is actuated during CLOSING travel, the control system switches to the upward direction and the drive moves to the OPEN end position. The hold-open time is restarted if the automatic closing function is switched on. If the door is in an intermediate position and the light barrier is actuated, then the UP direction is started.

▶ Radio remote control channel 1

The integrated or internally pluggable radio receiver and the external input FS (terminals 13 & 14) change the function with each actuation.

(Switching sequence UP-STOP-DOWN-UP . . .)

The radio remote control always starts in the up direction if the automatic closing function is switched on. The hold-open time is restarted with each further command.

For programming refer to the operating manual for the radio remote control in use.

▶ Radio remote control channel 2

With the DoorControl for rolling doors, relay 3 can additionally be controlled via the second channel.

▶ Automatic closing function

The automatic closing function can be switched on or off with rotary switch S2. If the automatic closing function is switched on, the pre-warning time switches on for approx. 5 sec. after the expiry of the hold-open time. The closing procedure is subsequently started.

The door can be opened with the "On" timer contact (terminals 10 and 11) and closed again by the adjusted automatic closing system with "Off".

The automatic closing function is deactivated if the door-edge security system is actuated 3 times before reaching the CLOSED limit switch.



Level 0	red traffic active and fault alarm
Level 1	red traffic light active and fault alarm flashing
Level 2	automatic closing function on hold-open time 10 s
Level 3	as above 20 seconds
Level 4	as above 30 seconds
Level 5	as above 40 seconds
Level 6	as above 50 seconds
Level 7	as above 60 seconds
Level 8	as above 60 seconds (after the light barrier is CLOSED, the "hold open" time is reduced to approx. 4 secs)
Level 9	automatic closing function on hold-open time 90 s

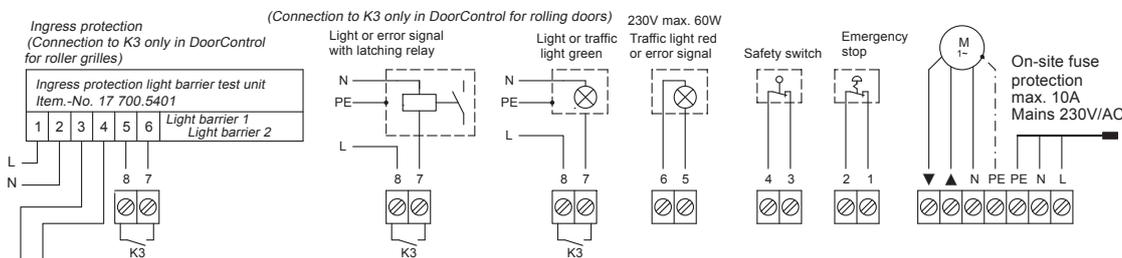
LED diagnosis

LED 5 (red)	stop button pressed (terminals 9 & 10)
LED 4 (red)	light barrier actuated
LED 3 (red)	lights up if the door-edge security system is defective or actuated
LED 2 (yellow)	programming motor running time/radio reception
LED 1 (green)	power (operating voltage) flashes during OPEN and CLOSE travel
LED 3 (red)	flashes on expiry of the hold-open time
LED 1 (green)	flashes if running time is exceeded

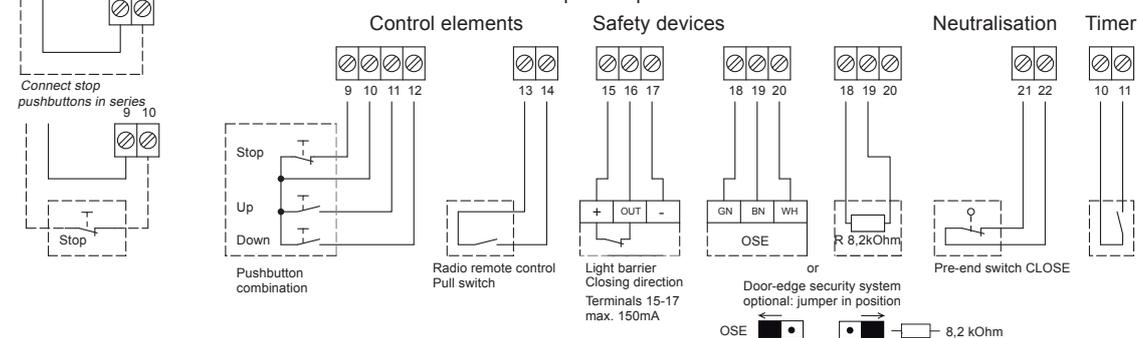


DoorControl terminal connection diagram

Inputs/outputs 230 V AC/potential-free



Inputs/outputs 24 V DC



EC DECLARATION OF CONFORMITY

We hereby declare that the following mentioned product/s meet/s the standards of the European Community.

Product designation: **DoorControl**

Description: Alternating current control unit for tubular actuators Type 9-15

The conformity of the above mentioned products with the relevant health and safety requirements is taken into account by the following directives and standards:

- EMC Directive 2004/108/EC
 - DIN EN 61000-3-2 (VDE 0838-2):2006
 - DIN EN 61000-3-3 (VDE 0838-3):1995 +A1:2001 +A2:2005
 - DIN EN 55014-1 (VDE 0875-14-1):2006
 - DIN EN 55014-2 (VDE 0875-14-2):1997 +A1:2001
- Low Voltage Directive 2006/95/EC
 - DIN EN 60335-1 (VDE 0700-1):2002
 - +A1:2004; +A11:2004; +A2:2006; +A12:2006
 - DIN EN 62233 (VDE 0700-366):2008
 - DIN EN 62233 (VDE 0700-366 Ber. 1):2009
- RoHS Directive 2002/95/EC
- DIN EN 12453:2000
- DIN EN 12445:2001
- EN ISO 13849-1:2008

Beuren, 13.07.2011



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