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Running-time control for 230V AC motors, Item 331550

Installation and Operating Instructions

Safety Instructions

The electrical connection may only be carried out by an approved electrician in accordance with the wiring diagrams shown in these instructions. Observe the VDE regulations, especially in damp rooms. The VDE regulations contain mandatory protective measures. Failure to do so poses a danger to life! Installation and connection work must always be carried out with the power disconnected; to do this, the supply lines must be disconnected from the mains on all poles and secured against being switched on again. Disconnection from the mains must be made with switching devices that guarantee a contact gap of at least 3mm. These operating instructions must be observed and are part of the device and of our warranty conditions.

Installation Dimensions, Technical Data

Power supply:	230VAC, 50Hz
Relay outputs:	2x10A/230VAC (1 motor max.)
Temperature range:	-10°C to +45°C
Housing material:	recyclable plastic
Terminals:	1.5mm²
Dimensions - keypad:	H18 x W80 x D80mm
Control unit:	H55 x W130 x D95mm
Interference immunity:	to IEC801-4 level 4
Creepage/clearance:	to VDE 0110 Gr. C/250V
Power consumption:	approx. 0.7W
Connections:	Box terminals: 2x1.5mm² / 1x2.5mm²
Dimensions:	43x43x18.5mm
CE marking:	Low Voltage Directive

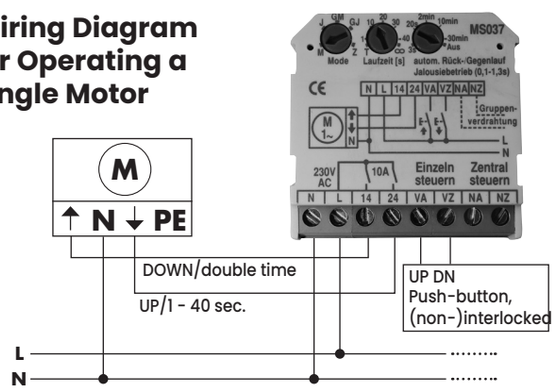
Complies with RoHS Directive 2002/95/EC

CE

Functions/Operation

The motors can be controlled via standard push-buttons (blind push-buttons not required). The running direction is reversed by the unit with a forced changeover delay of 400ms. A button pulse on the VA or VZ inputs starts the motor. A repeated pulse stops the motor. For the opening direction (terminal 14), a running time between 1 and 40 seconds can be set. The closing direction (terminal 24) is automatically set to double this value inside the unit. If stopped while opening, the next actuation (opening or closing) moves the drive back to the home position (closed). The opening direction cannot be actuated twice; after the opening time has elapsed, the drive can only be retracted. After a power failure and power recovery, only the retracting direction can be selected at first.

Wiring Diagram for Operating a Single Motor



M = motor control **(usual setting)**
J = blind control (blind jog function)
GM + GJ = in these modes, VA and VZ are activated as long as a signal is present
Z = mode for central control without upstream group control unit

Running time setting 1 - 40 sec. for UP function or no running time limit; the other running direction is then automatically set inside the unit to double the value

Automatic counter-run setting, 3 sec. - 30 min., after opening the system, a counter-run is executed according to the set value; e.g. ideal for limited ventilation

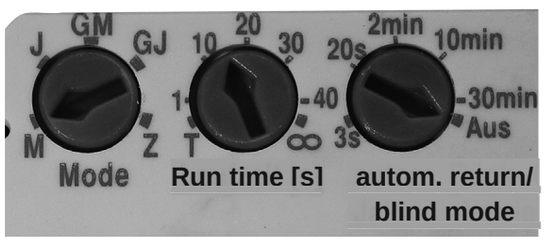


Fig. Item 331550, partial view

Setting for a single motor (e.g. chain drive for windows)

Mode: Setting M

Run time: Select opening time 1 - 40 sec.

Return: Off

or set time for limited ventilation period (3 sec. - 30 min.)

Fig. Item 331550, terminal strip

Open, Running time adjustable 1 - 40 s

Close, Running time is automatically set to double the opening time

Important:
Make sure, especially during commissioning, that the direction terminals are used correctly so that systems are not driven too far and damaged.