

ROBA[®]-takt control unit Type 014.000.2

Function

The ROBA[®]-takt control unit operates according to the principle of a clocked switching regulator with a frequency of 18 kHz. Its coil is energised by actuating the sensor for clutch and brake. A temperature monitor protects the unit from overheating. Should the temperature exceed >80 °C, the coil voltage is switched off. The LED "excess temperature unit" lights up red. A slope separation avoids simultaneous occurrence of clutch and braking torques. On overexcitation, the coil attraction time is reduced, allowing exact switching and positioning.

Electrical connection

1	Coil connection for clutch	Br1 / Br2
2	Coil connection for brake	Ku1 / Ku2
3	Sensor connection for clutch	+12 V / Ku / Gnd1
4	Sensor connection for brake	+12 V / Br / Gnd2
5	Connection input voltage	PE, L1, N
6	Temperature monitoring	Option 1 (bare)
7	Signalling relay	Option 2 (bare)

Technical data

Input voltage	230 VAC ±10 %, 50 – 60 Hz
Current consumption	max. 4 Ampere /100 % duty cycle
No-load supply power	< 7 Watt
Coil _{NENN} voltage	24 VDC
Coil _{NENN} power	maximal 96 Watt
Coil _{NENN} current	Manufacturer-side setting to mayr [®] ROBA [®] -takt size
Coil overexcitation	maximal 325 VDC Current limitation is adapted to the respective coil size.
Overexcitation time	2 – 50 ms (-30 % to +60 %), externally adjustable (only applicable with coding "overexcitation ON")
Slope separation	2 – 150 ms (-25 % to +30 %), externally adjustable
Protection	IP20
Ambient temperature	0 °C to +50 °C
Storage temperature	-20 °C up to +70 °C
Max. conductor cross-section	2.5 mm ²
Weight:	1.5 kg
Device fuses, input-side:	
G-microfuse	F1/F2, (M) 4 A, 5x20 mm
Device fuses, coil-side:	
G-microfuse	F3, the current is adapted to the ROBA [®] -takt sizes. Always use the same replacement fuses
Overvoltage category	two; one for connection to PELV/SELV (control cables)
Overvoltage protection	For installation in overvoltage category III, a suitable overvoltage protection unit is required between the incoming voltage and the ROBA[®]-takt control unit.

Control unit temperature monitoring

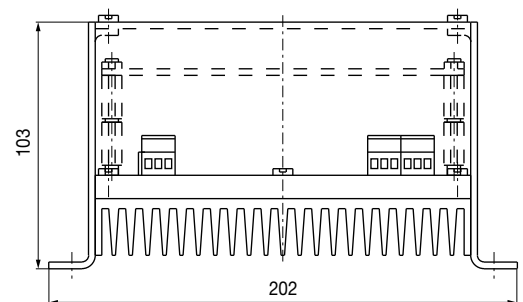
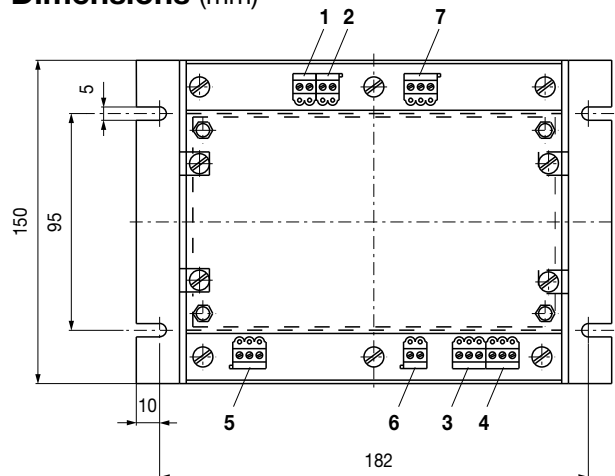
A fitted temperature switch prevents the control unit from overheating.

Application

This unit is used to start, stop and to position by switching and controlling the mayr[®] -ROBA[®]-takt clutch brake modules.



Dimensions (mm)



Order number

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Sizes 3 – 7
ROBA[®]-takt control unit