

# Dimension Sheet for ROBA<sup>®</sup>-takt Circuit Module Type 004.000.\_

(M.004000+.GB)

## Application

This device is used to start and stop mayr<sup>®</sup> ROBA<sup>®</sup>-takt circuit modules and mayr<sup>®</sup>-clutch brake combinations. It can be used for alternating 24 VDC coil switching, if a 24 VDC power supply is available.



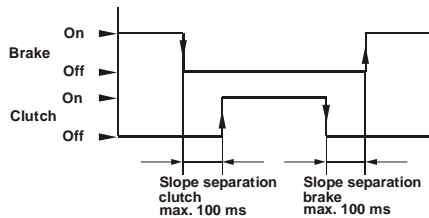
## Function

**1-sensor operation:** -activated- clutch is energised  
-deactivated- brake is energised

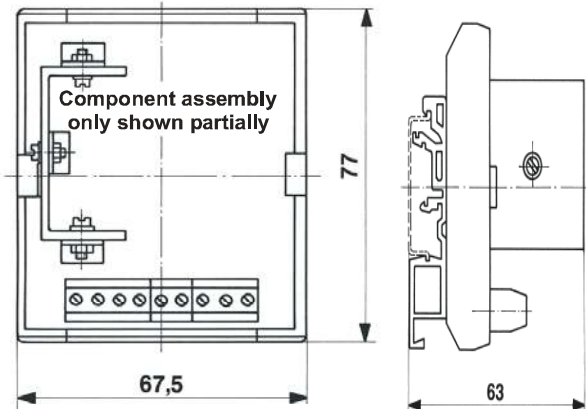
The respective control of the clutch or brake is indicated via LED. The ROBA<sup>®</sup>-takt circuit module has no over-excitation function.

**The brake has priority:** The brake is energised independently of the sensor position when the 24 VDC power supply is switched on. The coil is energised with the 24 VDC power supply.

**Slope separation:** To avoid simultaneous clutch and braking torques, a slope separation of 0 - 100 ms between clutch and brake can be set, which acts according to the respective rise time and drop-out time of the coils (see switching time table). This adjustment is carried out via the potentiometers Ku = clutch (P2) and Br = brake (P1). The factory default setting is 0 ms.



## Dimensions with Mounting Frame (mm)



## Technical Data

Input voltage 24 VDC SELV/PELV ripple content ≤5%  
 Recommended fuse T 4A  
 Output voltage 24 VDC  
 Output power max. 79 W  
 Slope separation 0 - 100 ms (factory default setting is 0 ms)  
 Ambient temperature 0 °C - +70 °C  
 Storage temperature -20 °C - +85 °C  
 Conductor cross section 0.14 - 1.5 mm<sup>2</sup> / AWG 26-14  
 Protection IP 00  
 Design printed board with screw-on attachment part or a mounting frame for 35 mm standard mounting rails.

**Max. cycle frequencies:**

	45 °C	70 °C	
up to 1 A / sizes 3 + 4	600	600	cycles / min
approx. 2 A / sizes 5 + 6	240	180	cycles / min
approx. 3 A / size 7	120	75	cycles / min

### Please Observe:

Higher cycle frequencies will lead to ROBA<sup>®</sup>-takt circuit module overload and failure.

## Electrical Connection (Terminals)

- 1 24 VDC input voltage
- 2 GND input voltage
- 3+4 brake
- 5+6 clutch
- 7 12 VDC control voltage for switches or sensors
- 8+9 control inputs

## Order Example

To be stated on order:	Size	Type
Order number:	-	004.000._

- 0 = Only printed circuit board without frame
- 1 = Printed circuit board with mounting frame