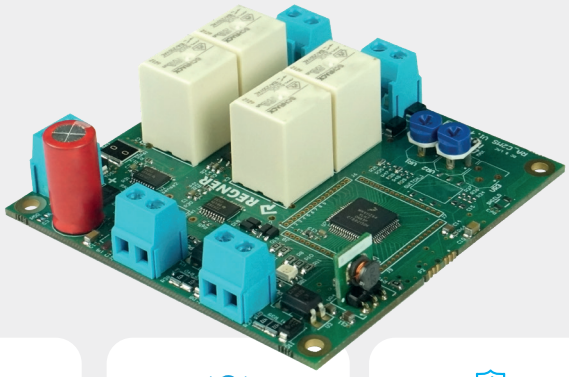
REGNER®

Datasheet

RAC2MS

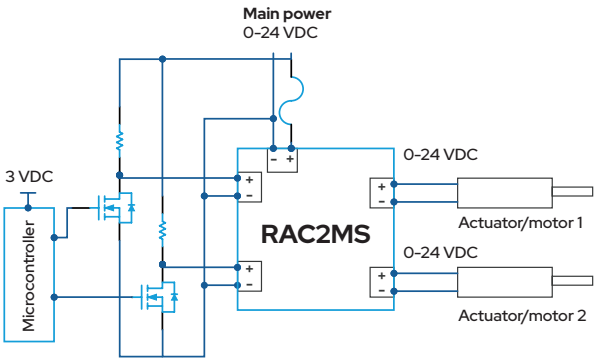
Actuator control series



- Led indicator
- Adjustable current limit
- Brake function
- Jam management
- Overcurrent protection
- For two actuators
- Easy installation
- Low current consumption
- Compact size
- Customizable options

Enhanced safety & control

The **RAC2MS** is a compact control solution for two 24 VDC **linear actuators up** to 312 W peak, with 7 A continous output per channel. The controller features a simple control and interfacing, as well as enhanced safety options, to easely configure a two-linear actuator system into any application.



Typical application

Main features

Powerful

Operation for two 24 VDC actuators with a total current consumption of 7 A and a high momentary load capacity.

Easy interface

Status RGB Led
Screw wire connectors
Board mounting holes

Safe

Adjustable current limit, braking and jam management features, reverse polarity, over-current protection...

Compact

Small-package control board designed to fit into tight applications

Technical specifications

General specifications

Supply	**24 VDC ± 4VDC**	
Cable input	**24 to 12 AWG (2,5 mm²)**	(0,039 in²)
Idle current	**Approx. 15 mA**	
Driving current	**7 A (Continous)** **13 A (4 sec. peak)**	
Current limit	**0 ... 7 A per channel**	
Digital imputs	**0 - 12 ... 24 VDC**	
Operating temp.	**- 20 to 60 °C**	- 4 to 140 °F
Weight	**68 g**	2.40 oz
Dimensions	**75 x 80 x 21 mm**	2,95 x 3,15 x 0,83 in

Brake function

When the board is powered off, actuators are dynamically braked by automatically short-circuiting the motor coils.

Current limit

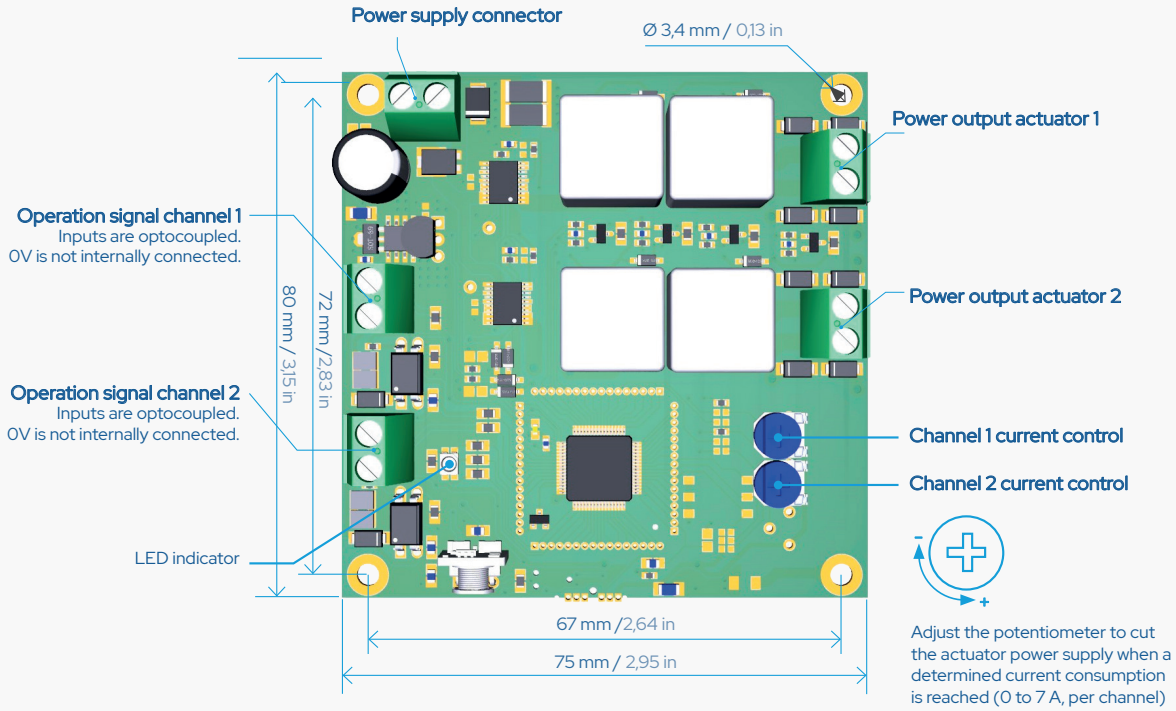
Set the current limit for each actuator channel turning the potentiometer at the desired max. intensity, from 0 to 6 A.

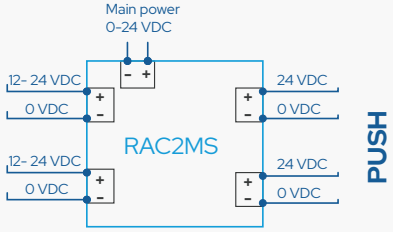
Jam management

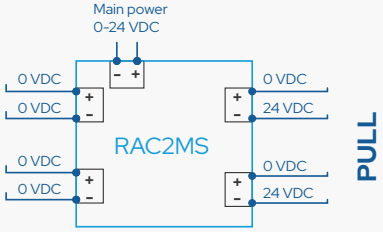
After an actuator is stopped by a jam, the current control feature only allows it to move in the opposite direction.

Settings and dimensions

(mm) (in)







Recommendations and warnings

This controller has no integrated fuse. It is recommended to install an external fuse to protect the application and the control board.

Incorrect connection may damage the system. Double-check the correct polarity of all wires.

After an actuator is stopped by the current control feature, it only can move in the opposite direction.

The controller is overvoltage and reverse polarity protected, but only for a short period. A long overcurrent or reverse polarity connection may damage the system.

LED light indicator

The LED successively indicates the current status of each channel (actuator) during 0,5 sec.

- Blue
  Actuator push movement
- Green
  Actuator pull movement
- White
  Actuator movement limit time reached (20 seconds) or starting overcurrent (0.25 seconds)
- Yellow
  Overcurrent stop

Customizable upon request

REGNER® designs from scratch and customizes its range of control boards to meet the needs of our clients. Get in touch with us and share your requirements for custom development with our engineering team.

Communications
Input control
Number of actuators
Voltage & current
Synchronism
Safety features

Forging ahead to achieve high quality

ISO 9001 Quality management
ISO 14001 Environmental management system
ISO 13485 Medical devices

We use high quality components and apply semiautomatic production and rigorous testing to verify and validate each motion control solution before they leave our premises. Plus, our management systems, which are continously audited, ensure optimized agile manufacturing. All these measures translate into high quality products.

Every single RAC2MS undergoes strict QC assessments during production in order to guarantee optimal performance and durability.

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