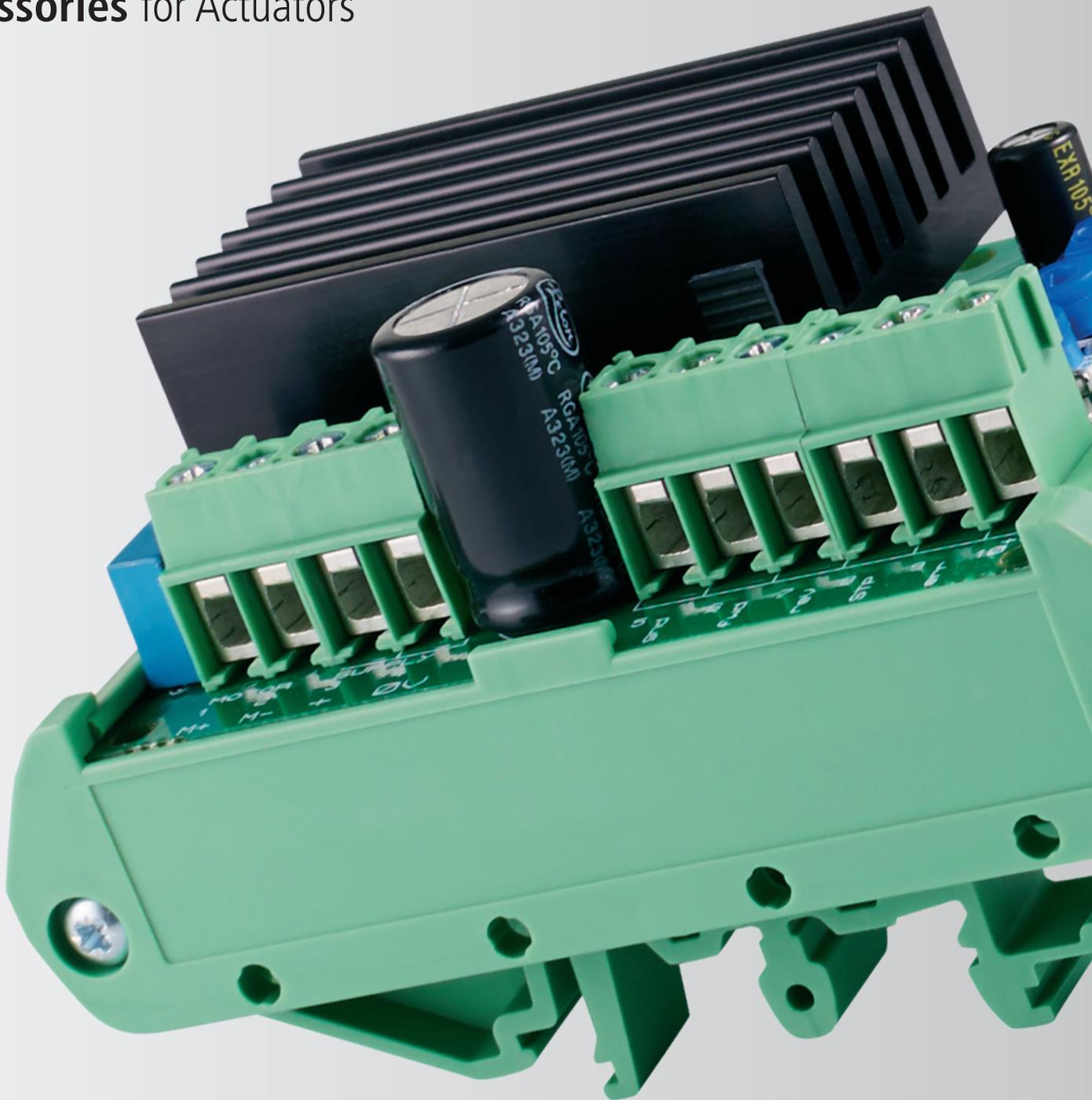
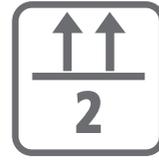
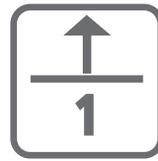


## Accessories for Actuators

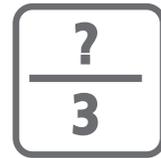
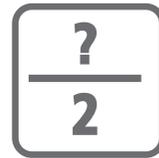
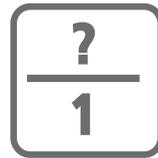
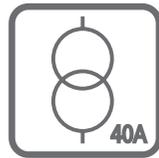
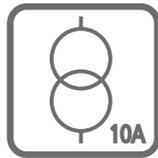


# Icon explanation



Speed control adjustment

Single/Parallel driver



Delivered with transformer

Simple/Advanced



Actuator feedback



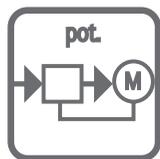
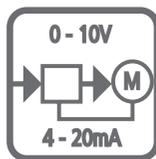
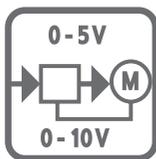
IP Degree



Programmable



Ampere



Positioning driver

## TP1



The TP 1 is a waterproof desk switch made for rough working conditions. It is appropriate for use in locations such as kitchens, slaughterhouses and other wet and damp environments.

Compatible with: TR-EM-208; 288; 239; 273.

Also compatible with LINAK control boxes: CB6; CB8; CB9; CB12; CB14; CB16; CB20; CBD4; CBD5 and CBD6.



## Rocker Switch

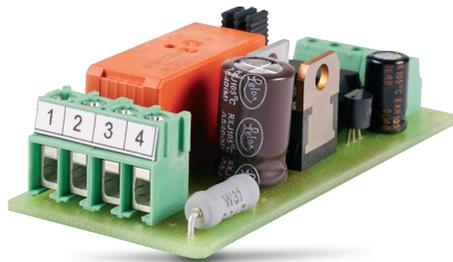


The Rocker Switch is made for changing the directions of actuator movement. Combined with a LINAK motor control, this is a simple and cheap solution suitable for use in simple applications.

The switch compatible with actuators equipped with feedback potentiometers such as: LA12; LA14; LA23; LA25; LA28; LA30; LA31; LA32; LA34; LA35; LA36 and LA37.



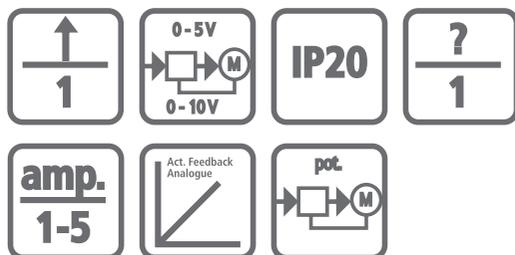
# TR-EM-165



TR-EM-165 is a positioning driver and a power stage for controlling a DC-motor. The driver is best suited for slow and medium speed systems with transitional periods of 2 – 30s (from end to end).

Positioning is achieved by defining a set value through the external potentiometer or by providing a 0-5V signal from a PLC driver.

The driver is compatible with actuators equipped with feedback potentiometers such as: LA12; LA14 LA23; LA25; LA30; LA32 and LA35.



# TR-EM-167



TR-EM-167 is a positioning driver equipped with a set value potentiometer. It has a power stage capable of driving a DC motor. TR-EM-167 can drive a DC spindle motor equipped with potentiometer feedback.

TR-EM-167 is suitable for slow and medium speed systems with transitional periods of 2 - 30s (from end to end). Positioning is achieved by defining a set value to the TR-EM-167 internal potentiometer.

The driver is compatible with actuators equipped with feedback potentiometers such as: LA12; LA23; LA30; LA32 and LA35.



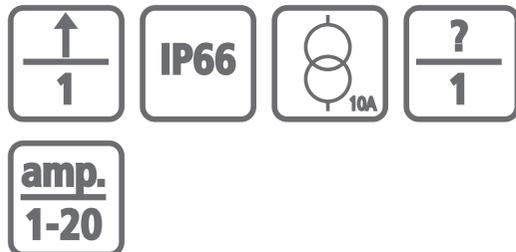
## TR-EM-208



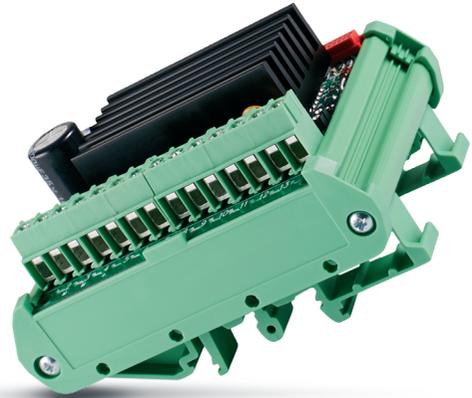
TR-EM-208 is a motor control unit designed for operation of a single actuator. The driver unit's primary function is to change direction of the actuator. Soft start and stop as well as current adjustment is possible.

The current limit disables the actuator's motor if it exceeds a pre-defined current limit.

The driver is compatible with the following actuators: LA12; LA14; LA23; LA25; LA28; LA30; LA31; LA32; LA34; LA35; LA36 and LA37.



## TR-EM-288



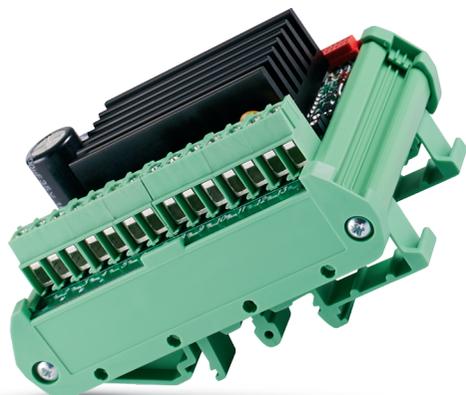
The TR-EM-288 is a motor driver designed for operation of a single actuator. The driver protects the actuator and application and disconnects the actuator's motor if it exceeds a pre-defined power limit. The driver has a number of adjustable features, which are ideal for use with applications requiring accurate positioning. For example, a soft start and stop feature and variable speed control.

Parameters are defined with programming units TR-EM-236/268.

The driver is compatible with the following actuators: LA12; LA14; LA23; LA25; LA28; LA30; LA31; LA32; LA34; LA35; LA36 and LA37.



## TR-EM-288-SAF

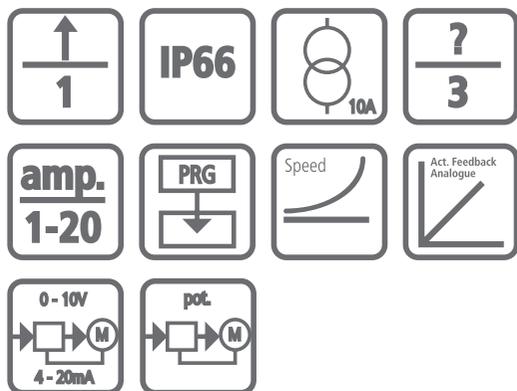


The TR-EM-288-SAF is a positioning driver designed to operate a single actuator in applications requiring precise positioning of actuator movements.

The positioning driver receives signal feedback from actuators with an integral potentiometer or hallpot.

The driver has 24 parameters, which can be set using the TR-EM-236/268 programming units. Using these parameters, you can adjust many settings including speed, max. stroke length, power limit and ramp times.

The driver is compatible with the following actuators: LA12; LA14; LA23; LA25; LA30; LA32; LA34; LA35; LA36 and LA37



## TR-EM-239



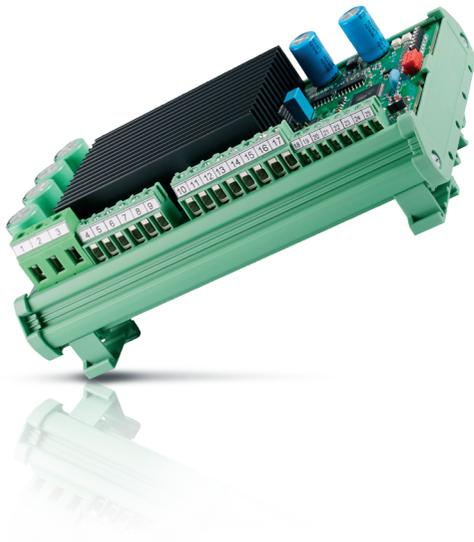
The TR-EM-239 is a parallel driver unit designed for parallel operation of two actuators. TR-EM-239 synchronises the actuators through the feedback signal from each actuator. PWM (Pulse Width Modulation) adjusts the speed of each individual actuator and secures parallel operation.

Driver settings can be adjusted with the TR-EM-236/268 programming units.

The driver is compatible with reed- or hall feedback actuators: LA12; LA14; LP2; LA23; LA25; LA28; LA30; LA31; LA32; LA34; LA35; LA36 and LA37.



# TR-EM-273



# TR-EM-236/268



The TR-EM-273 is a parallel driver designed for parallel operation of up to four actuators. TR-EM-273 synchronises the actuators through the pulse or analogue feedback signal from each actuator.

PWM (Pulse Width Modulation) adjusts the speed of each individual actuator and secures parallel operation.

Driver settings can be adjusted with the TR-EM-236/268 programming unit.

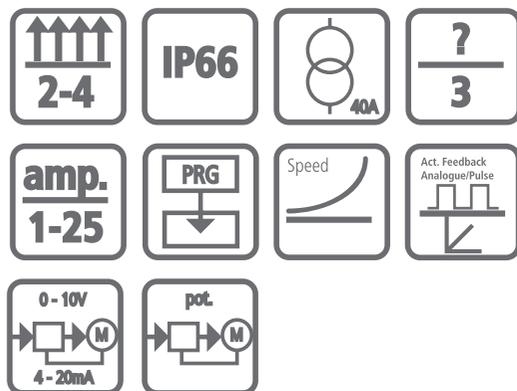
The driver is compatible with reed, sensor, feedback, pot or hall-pot actuators: LA12; LA14 LP2; LA25; LA28; LA30; LA31; LA32; LA35; LA36 and LA37.

The TR-EM-268 is a programming unit used for changing and copying parameters as well as monitoring dynamic values in driver units.

The TR-EM-268 is equipped with a USB-cable, which facilitates easy editing of parameters.

The TR-EM-236 is a programming unit used for changing and copying parameters as well as monitoring dynamic values in driver units.

TR-EM-236 enables search for correct parameters and facilitates easy copy and transfer of these settings to other units.



## SEAV RF Control



The SEAV RF-Control is a wireless radio frequency remote control. It is a 2-channel system. Combined with a LINAK motor control or some TR-EM accessories it is possible to drive an actuator up and down.

Compatible with: TR-EM-208, 288, 239, 273.

Also compatible with LINAK control boxes: CB6, CB8, CB9, CB12, CB14, CB16, CB20, CBD4, CBD5 and CBD6.



## CARDIN RF Control



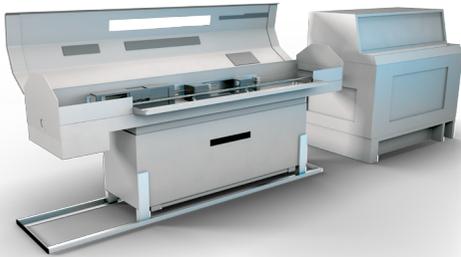
The CARDIN RF-Control is a wireless radio frequency remote control. It is a 2-channel system. Combined with a LINAK motor control or some TR-EM accessories it is possible to drive an actuator up and down.

Compatible with: TR-EM-208, 288, 239, 273.

Also compatible with LINAK control boxes: CB6, CB8, CB9, CB12, CB14, CB16, CB20, CBD4, CBD5 and CBD6.



# Examples of applications where accessories can be used



**Industrial automation**  
Cover, Adjustment, Scaling Unit



**Valves**  
Control, Positioning



**Trucks**  
Cabin tilt



**Building louvres**  
Ventilation



**Industrial automation**  
Positioning and adjustment

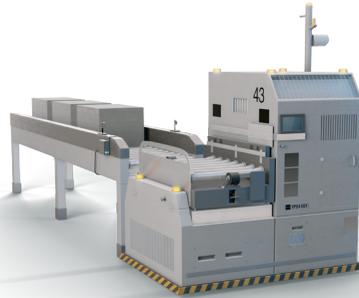


**Valves**  
Control, Positioning



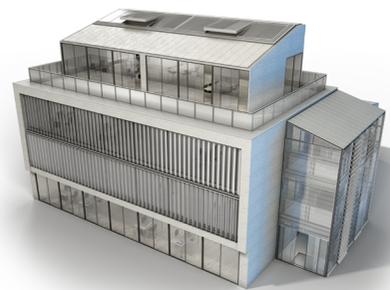
### Construction

Throttle adjustment, Ladder, Hoodlift



### Industrial automation

Height adjustment, Extension and retraction



### Building louvres

Shading



### Mobile agriculture

Adjustment, Dosing, Border spreading



### Mobile agriculture

Adjustment, Hatches, Knife adjustment

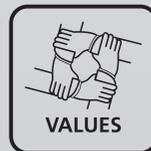


### Mobile agriculture

Dosing, Tank cover, Marker



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