

FAC-System and Elektroniksystem Motor Control System

Parts of the system

The motor control system is complete to run at once. It has four parts: Console enclosure, electric motor, power converter and rotation sensor.

Console enclosure

The console enclosure has five buttons that controls a menu system. You can choose to run directly from the buttons or to make a program with a series of events that can be repeated and edited.

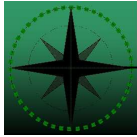
If you connect the rotation sensor you can on screen follow the activity on a rotating shaft. Motion can be detected and will be represented on the screen by symbols. The screen also has a counter that will increase its value as soon as the shaft has made a complete revolution. A continued motion will continuously increase the counter value as long as the motion remains.

Application menu

The motor control system has an application menu where speed and direction can be decided through a few buttons. The menu is a system with a number of sub screens where a few of the parts of the display screen has numbers or other signs to show current status.

A few of the parts of the display has accelerated number fields in order to set a large number easily.

Please go below to see a description to show the function of each button and how to go between different menu screens in order to program the motor control system.



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Welcome Screen

```
FAC-System &
Elektroniksystem
News at www.elek
troniksystem.se
```

Measure Wait until program begins

Screen 1: Choose Program

```
Motor Control
Choose mode:
[UP] program
[DN] direct run
```

UP Program, go to **Edit Program**
DOWN Run motor directly, go to **Run Directly**
FUNC No function
MENU No function
OK No function

Screen 2: Edit Program

```
Edit Program
Step: 1
Speed: S 0 %
Run t: 30 sec
```

UP Increase value, 0 to 1000, 'F' for forward, 'S' for stop
DOWN Decrease value, 0 to 1000, 'B' for backward, 'S' for stop
FUNC Confirm, go to next domain of the screen
MENU Only when **Program Run [OK]** on display, go to **Run Directly**
OK Only when **Program Run [OK]** on display, go to **Run Program**

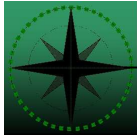
In the screen domain "Step:" you can browse between already programmed events in the program. It is also possible to put a pause, completely still, if you like to. Any event can be up to 3600 seconds, i.e. one hour.

Screen 3: Run Program

```
Running Program
Step: 6
Speed: B 768 %
Run time 368 sec
```

UP No function
DOWN No function
FUNC Stop the program and the motor, go to **Edit Program**
MENU Keep running, go to screen 5, **Show Rotation Sensor**
OK No function

This screen appears when a program runs. Presented on screen: Part of program, speed and time that remain before next event. When the program has completed the system returns to screen 2.



Screen 4: Run Directly

```
Direct Run Mode
[UP] fast
[DN] slow F350%
[MENU] exit
```

UP Increase speed
DOWN Decrease speed
FUNC Stop the motor "S 0%"
MENU Keep running, go to screen 5, **Show Rotation Sensor**
OK No function

If the motor not runs there is no direction or speed as is indicated "F350%" above. This example indicate 35% speed forward.

Screen 5: Show Rotation Sensor

```
Rotation Sensor
[MENU] to leave
Activity 0
whole turn 61
```

UP No function
DOWN No function
FUNC No function
MENU Go till screen 1: **Choose Program**
OK No function

In the example above the rotation sensor has made 61 complete revolutions. A minor activity can be detected at the screen domain "Activity", where the sign changes to represent mechanical activity.
