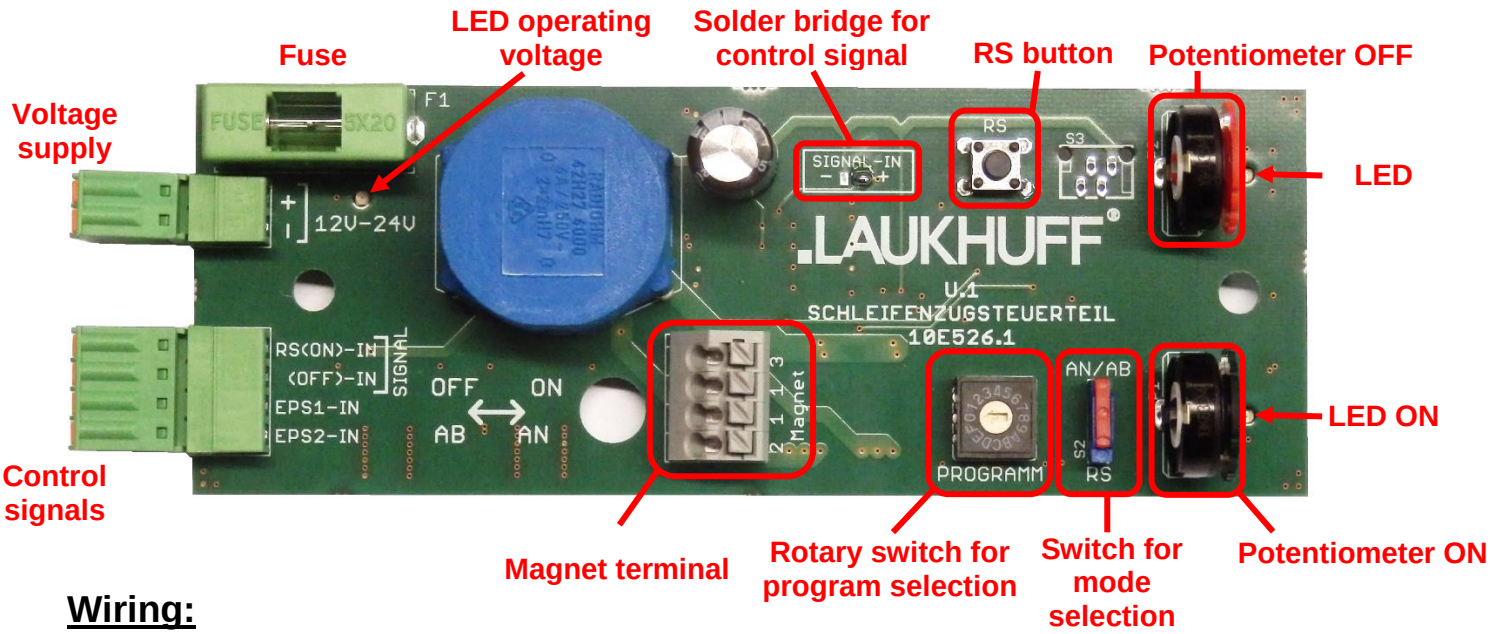
User Instructions
Universal Slider Action Control Unit U.1
V1.0 – HW Rev.1




## Wiring:

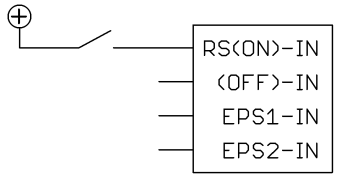
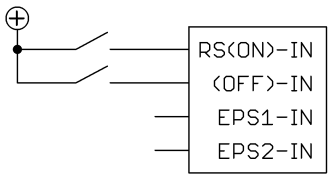
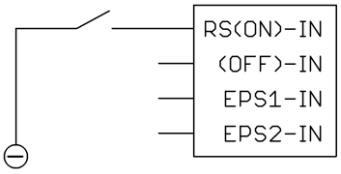
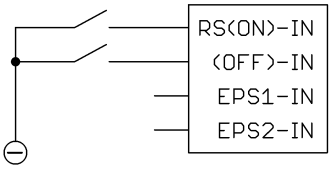
Control signals:

The U.1 is compatible with most standard controllers. The polarity of the control signal can be changed via solder bridge on the circuit board.

| Positive input (standard) | Negative input |
|---|---|
|  |  |



The control unit can be controlled by a continuous RS signal (stop switch) which is applied as long as a stop is engaged, or by pulsed ON-OFF signals generated by some capture systems.

| RS mode | ON-OFF mode |
|---|---|
|  |  |
| Positive input | Positive input |
|  |  |
| Negative input | Negative input |
|  |  |



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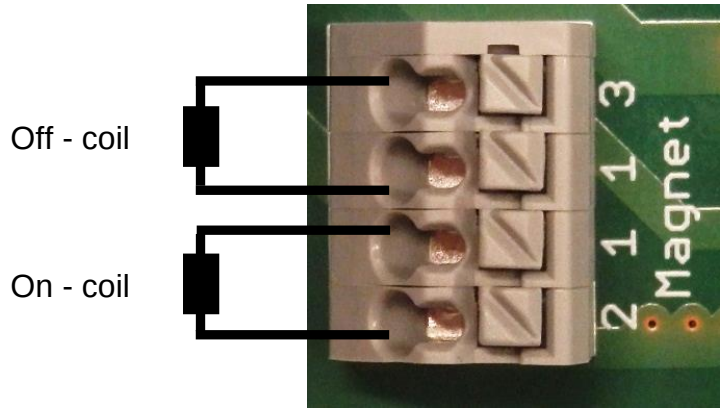
Voltage supply:

| | |
|---|---|
| Voltage | 12V – 24V |
| Internal fuse: | 4A slow blow |

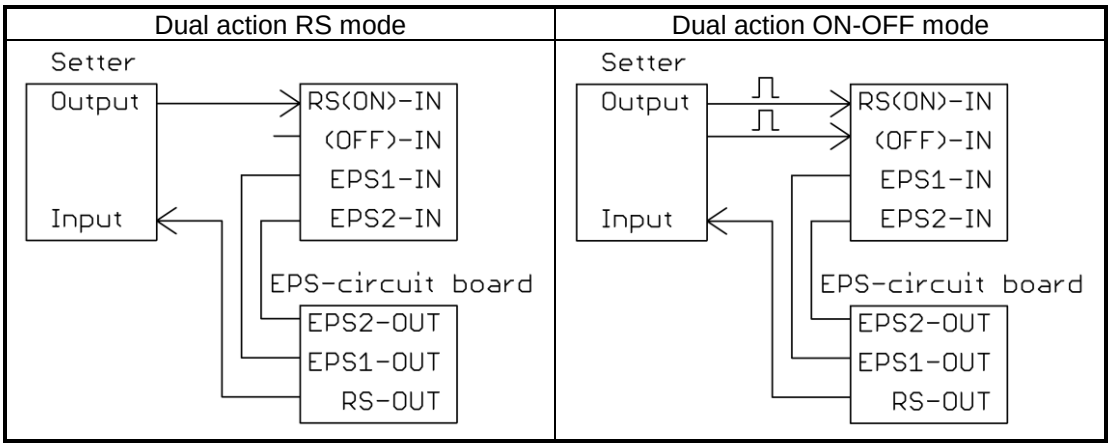
Magnet:

The magnet is connected to the terminals on the circuit board.




Dual action:

In organs with dual action, the control unit can be used with an EPS circuit board.

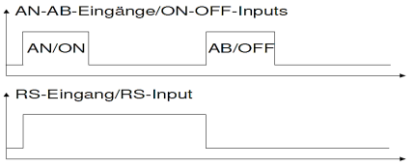
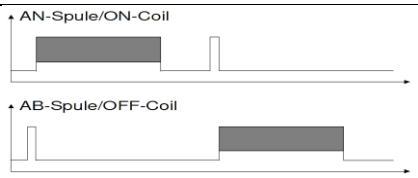
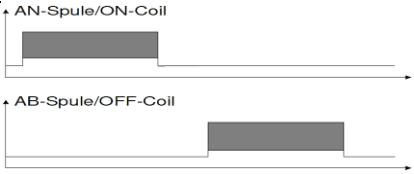
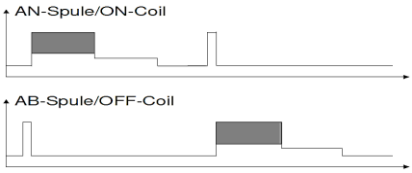
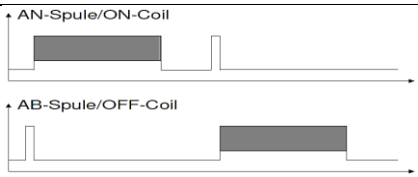
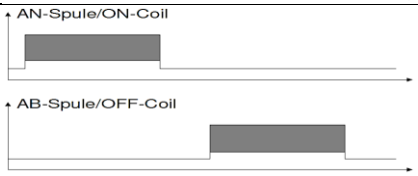
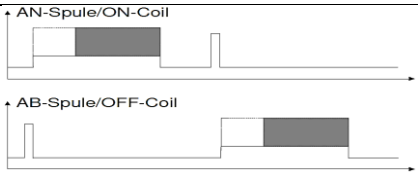
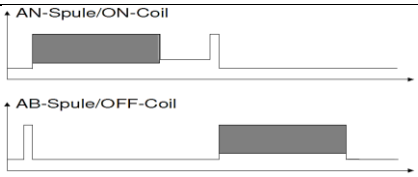



## Setting options:

The RS button simulates a signal from the drawstop or stop control magnet. While the button is pressed, the magnet moves to the opposite end position.

With the ON and OFF potentiometers, the force can be set independently for both directions (exception: program 5, see program table)
Set the force so that the end positions can be reached smoothly and safely when the coils are energized.

## Programs:

| | Description | Time-force diagram |
|---|---|---|
| | |  |
| Program 0 | - coil energized 1.6s<br>- with pre-impulse |  |
| Program 1 | - coil energized 1.6s<br>- without pre-impulse |  |
| Program 2 | - coil energized 1.6s<br>- with pre-impulse<br>- force reduction after 0.8s to 30% of the set force |  |
| Program 3 | - coil energized 1.6s<br>- with pre-impulse<br>- the EPS inputs are used for position recognition only (no braking function) |  |
| Program 4 | - coil energized 1.6s<br>- without pre-impulse<br>- the EPS inputs are used for position recognition only (no braking function) |  |
| Program 5 | - coil energized 1.6s<br>- with pre-impulse<br>- starts with 100% force; after the time set with potentiometer ON, the force set with potentiometer OFF is activated |  |
| Program 6 | - reserved for custom programs | |
| Program 7 | - same as program 0<br>- 30% holding force ON |  |

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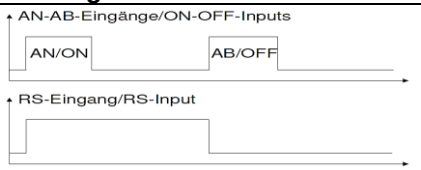
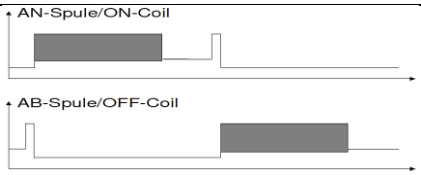
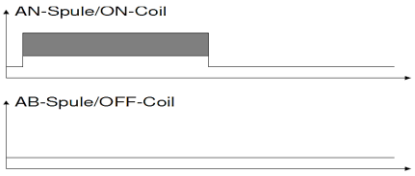
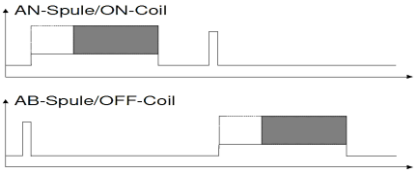
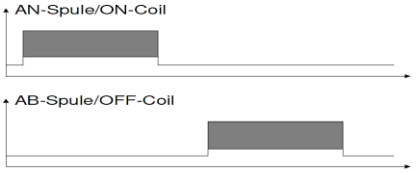
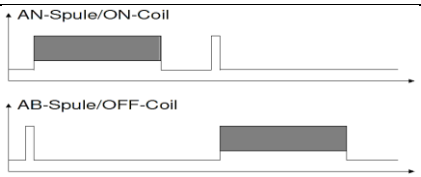
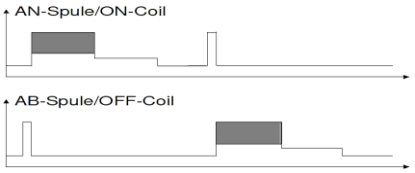
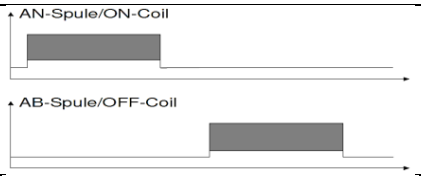
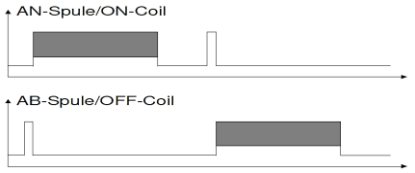
| | **Description** | **Time-force diagram** |
|---|---|---|
| | |  |
| Program 8 | - same as program 0<br>- 30% holding force ON & OFF |  |
| Program 9 | - ON-coil active until RS switches off<br>- OFF-coil not active |  |
| Program A | - same as program 5<br>- for dual action |  |
| Program B | - same as program 4<br>- for dual action |  |
| Program C | - same as program 3<br>- for dual action |  |
| Program D | - same as program 2<br>- for dual action |  |
| Program E | - same as program 1<br>- for dual action |  |
| Program F | - same as program 0<br>- for dual action |  |

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