

Controller

ELDR 105*****



- Stepless metering for comfortable fine control
- Operating and diagnostic functions in one box

1 Description

The ELDR 103-***** unit is used to control a motorised actuator, series SAMOE. This is device is vor use with flow control valves series MTK., MTQ., MTCA., MTQE., HDS11. and HDS15 from Bucher Hydraulics. The position of the actuator is set with the control signal potentiometer and the actuator then travels to that position. When the power supply is switched on, the motor first travels to its zero position (the end stop). The motor then turns in the opposite direction until the actuator reaches the position set by the potentiometer. If the setting of the potentiometer is now altered, the motor immediately follow the change. By using the Stop switch, the motor can be driven to its zero position. When the Stop switch is released, the motor drives the actuator until it resumes its earlier preset position. The turtle symbol enables half speed, the rabbit symbol allows for full speed.

The green LED indicates that the controller's power supply is on. The red LED indicates motor status at that moment:

LED is lit:

motor is in the zero position

LED blinks:

motor has not yet reached its required position

LED is out:

motor has reached its required position

LED is flashing fast:

short circuit in loom or motor

2 Technical data

Electrical characteristic	Description, value, unit
Power supply	12 V ... 30 V DC, smoothed. Ripple < 10%
Operating temperature	-20 °C ... +50 °C
Analogue inputs	1 control signal potentiometer 4,7 kΩ
Digital Inputs	1 enable/ disable port
On/off output	1 motor adjustment
Maximum outputs current	0,5 A
Housing dimension	approx. 122 mm x 120 mm x 55 mm (plastic housing)
Weight	approx. 250 g
Enclosure protection	IP30
Other features	Inversed polarity protected power supply

3 Commissioning

Before commissioning the controller, read the operating manual for the whole machine carefully and observe the safety instructions. Before working on the machine, switch off the controller and disconnect its power supply. In addition, the hydraulic power unit must be switched off.

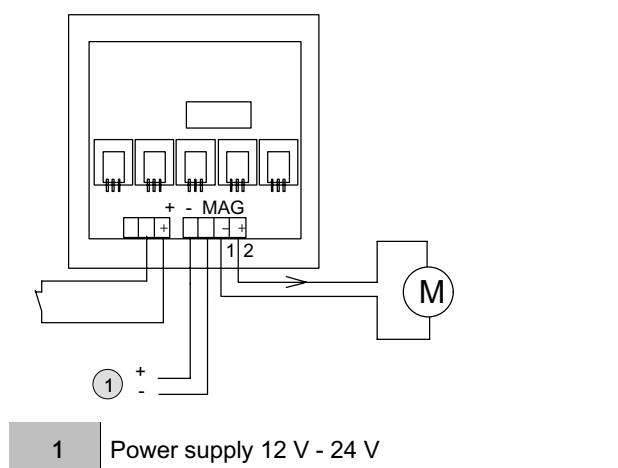
Switch-on procedure:

1. Do not switch on the electronics until ready to begin work.
2. Put the main switch to position 1 and the Stop switch to Automatic
3. Turn the potentiometer to set the required level of control signal. When the red LED goes out, the motorised actuator has reached the required position.

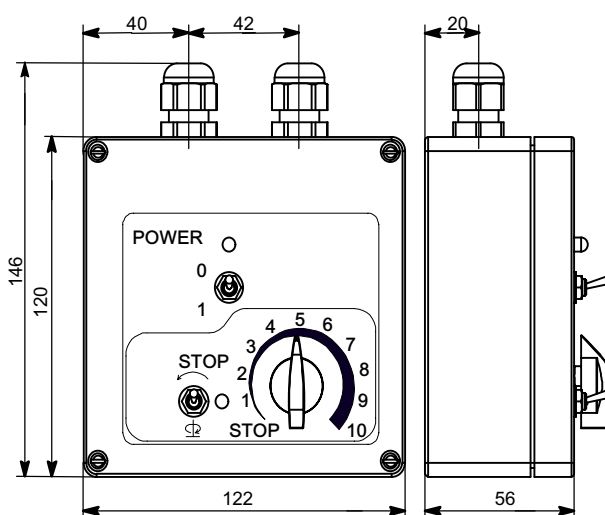
Switch-off procedure:

1. Put the Stop switch to the STOP position.
2. When the red LED stops blinking and is constantly lit, put the main switch to position 0.

4 Connecting diagram



5 Dimensions



6 Service parts

Potentiometer 4,7 kW	Ord. no.: 100.067666
Potentiometer indicator knob	Ord. no.: 100.604397
Switch, On/On	Ord. no.: 100.607719
Push-on switch plate	Ord. no.: 100.607663
LED 5 mm green	Ord. no.: 100.606555
LED 5 mm red	Ord. no.: 100.606554
Cable gland	Ord. no.: 100.606051
Retaining nut PG9	Ord. no.: 100.601554
Small housing ELDR 103/5	Ord. no.: 100.228258
Front plate ELDR 105*****	Ord. no.: 100.228287

7 Accessories

Mot. actuator SAMOE	Part no: 022659
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