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| <ul style="list-style-type: none"> 1 connection mains voltage* 2 fuses for electronics 3 connection limit switch and drive motor* 4 fuse for drive motor 5a relays with status LEDs 5b ditto, but changeable relays (24V DC only) 6 coding switch for input and output section, direction of action and sensitivity | <ul style="list-style-type: none"> 7 button for start of automatic travel adjustment 8 status LED L1 9 maintenance LED L2 10 connection for service interface, external operating unit 11 connection signal output 12 connection for position signal * 13 connection drive signal* <p>* =internal wiring</p> |
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Description

The positioner turns an incoming drive signal into the correct drive position by comparing the signal with the position feedback of a sensor which is installed in the drive and adjusting the drive with the up and down relays. There is a signal for travel feedback 0/4..20 mA / 0/2..10 V by default. Optionally, an additional contact relative to the actuator position is possible, e.g. to limit the valve stroke to a min. or max. opening degree.

The device is integrated in the actuator without operation and normally also maintenance-free. In case of special operating conditions (very frequent switching, unfavorable optimization), the relays can be replaced, e.g. in case of wear or stuck contacts (24V DC version only). All important basic settings for direction of action and sensitivity are specified by way of the coding switches. Communication with leading systems is also possible via bus adapter, e.g. for Profinet KFM item nr. 99spne.., for data acquisition or remote maintenance purposes as well as for the execution of digital positioning commands.

The commission (if necessary, please refer page 3) consists merely of a check of the settings and a single operation of the calibration key. After this LED L1 will show if the automatic adjustment of the final positions is finished. Subsequently the device is ready for use.

Predictive Maintenance:

For predictive maintenance of the actuator, a signal is output by LED L2 if the previous use of relays (switching operations) or of the spring assembly (approach of the end positions) requires a check of the drive.

The wear status of the actuator can be read with the PC software PKS at any time, as well as the history of setpoint, actual value and drive position which are saved in the integrated datalogger.

Type list

Basic model with non- contact transmitter

Extras:

Special voltage (1=115 V AC, 2=24V AC, 8=24V DC), others on request

Additional contact (Relays, potential free NO contact 250V, 2A)

Li.Nr.

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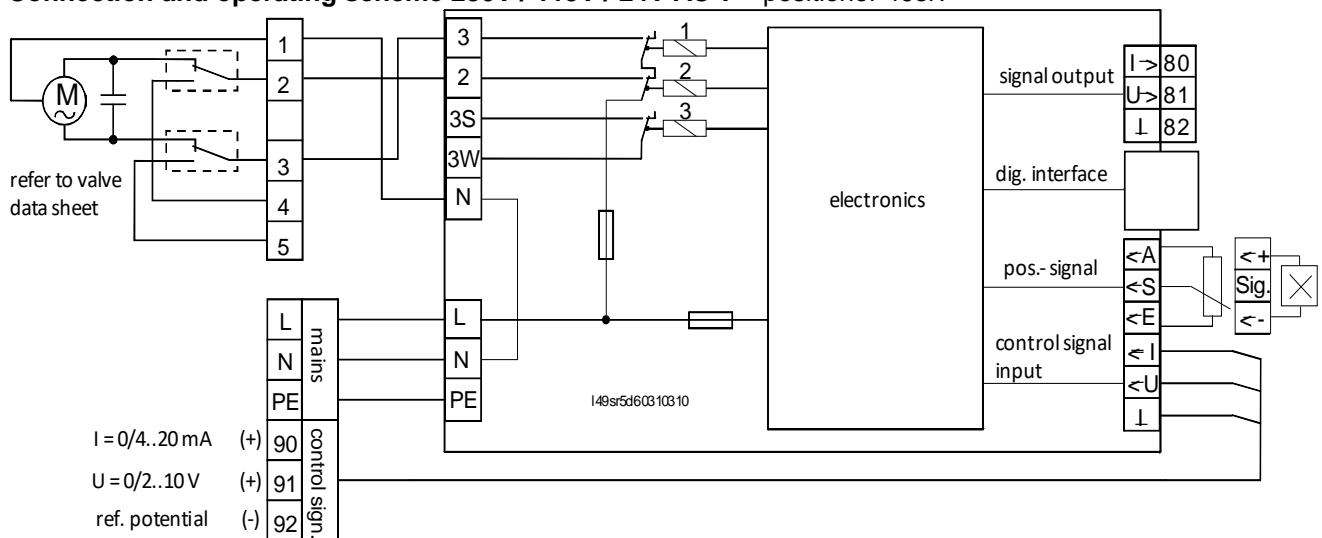
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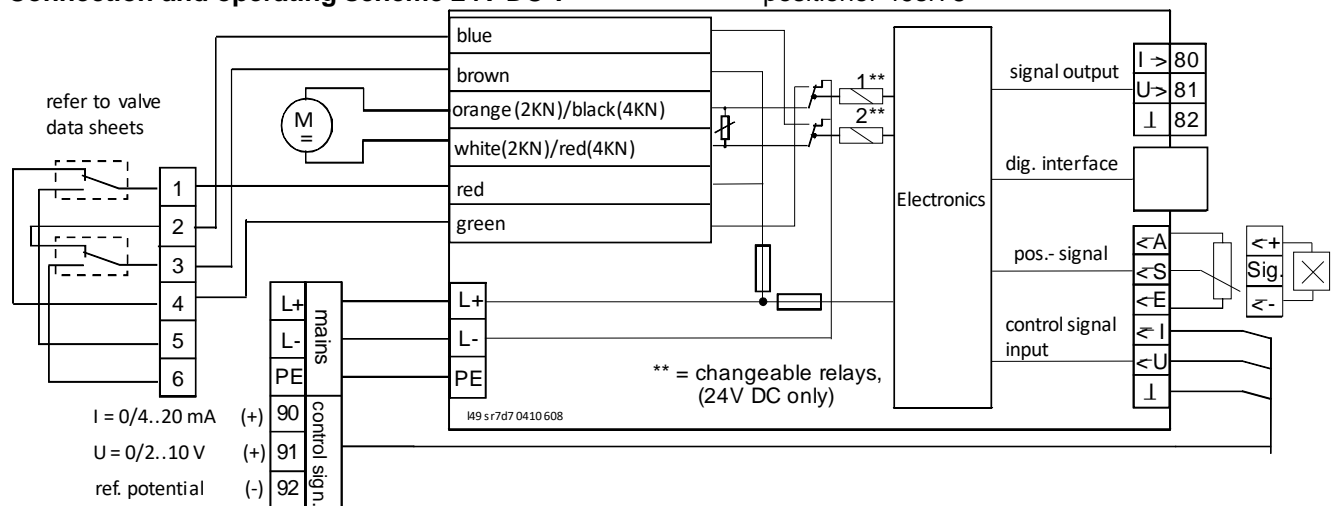
Technical data:

Input (adjustable):	0...20mA / 0...10V 4...20mA / 2...10V 0...10mA / 0...5V 4...12mA / 2...6V 10...20mA / 5...10V 12...20mA / 6...10V
Response sensitivity:	switchable normal / reduced
Output:	up to 3 relays, max. 250V , 2 A (Fuse protection 24V DC: T 1,6A) 0/4...20mA for position feedback, load < 500 Ohm, 0/2...10 V, load > 500 Ohm
Direction of action:	adjustable: <i>direct</i> : increasing input signal opens (straight) passage <i>inverse</i> : increasing input signal closes (straight) passage
Operating display:	2 status LEDs for adjustment, normal operation, error and maintenance 2 (3) LEDs for function display relays 1 and 2 (3)
Mains connection:	230V +/- 10 %, 48...62Hz, approx. 3VA alternative 115V/24V AC or 24V DC, other voltages on request
Interface:	service interface KFM 2.0 RJ45 (socket)
Allowed ambient temperature:	0...60°C, nominal temperature 20°C

Connection and operating scheme 230V / 115V / 24V AC*: positioner 49sr7



Connection and operating scheme 24V DC*: positioner 49sr78



* maximum version, some connections may not exist depending on version. Decisive for the delivered version is the connection diagram on the device.

Hint: Control signals must be shielded, maximum cable length 30 meters.