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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 5 relays with status LEDs 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 9 maintenance LED 10 connection for service interface, external operating unit 11 connection signal output 12 connection for position signal * 13 connection drive signal* |
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- * =internal wiring

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 drive free of maintenance or operation. 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 a LED 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 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.

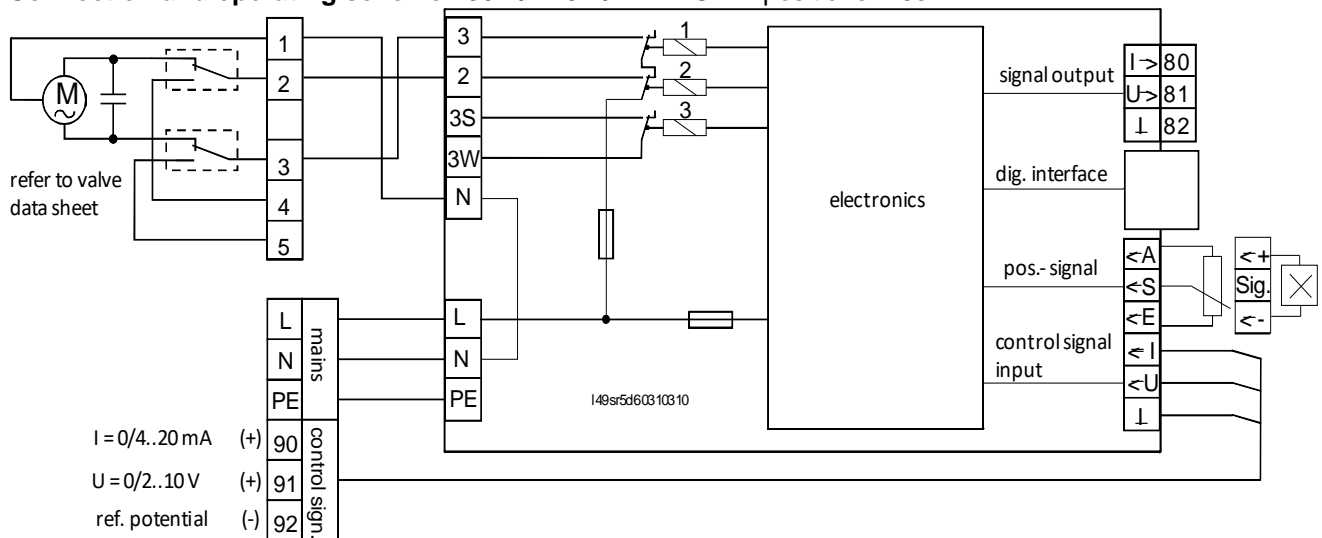
Type list

Basic model with potentiometer	Li.Nr. 49sr7
Basic model with non- contact transmitter	49sr7..h
Extras:	
Special voltage (1=115 V AC, 2=24V AC, 8=24V DC), others on request	49sr7_..
Additional contact (Relays, potential free NO contact 250V, 2A)	49sr7..1
Mobile operating unit	49sr79z

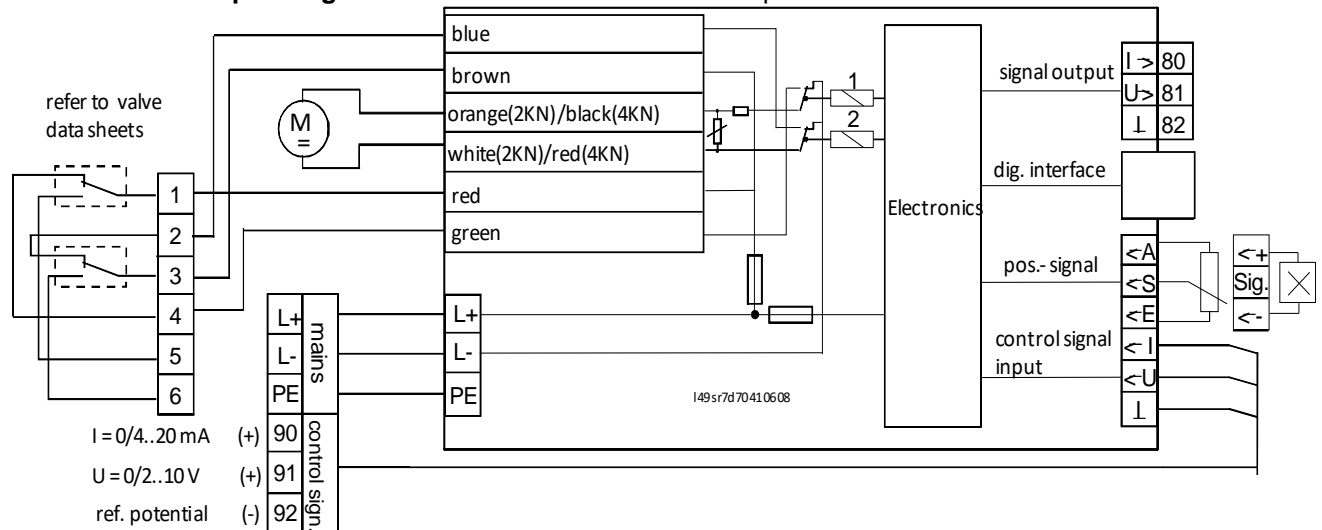
Technical data:

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 4 relays, max. 250V , 2 A 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.