

Signal converter voltage to current for actuators

- Nominal voltage AC/DC 24 V
- Control 0(2) ... 10 V > 0(4) ... 20 mA


Technical data

Electrical data	Nominal voltage	AC 24V, 50/60 Hz / DC 24V
	Power supply range	AC/DC 19.2...28.8 V
	Power consumption	0.2 W
	Own consumption	Dependent on the actuator
	Dimensioning	(see Technical data sheet for the actuator)
	Connection	Spring terminals, max. 1.5 mm ² Max. 1 lead per terminal opening (cable Ø 5 ... 10 mm, 4-core) Use a screwdriver to install
	Cable gland clamping range	5 ... 10 mm
	Electrical isolation	No
Functional data	Input impedance (U5 input)	>100 kΩ
	Non-linearity	<1%
	Control by controller (controller signal)	Selectable with jumper: – Jumper set: 0 ... 20 mA → 0 ... 10 V (factory setting) – Jumper removed: 0 ... 20 mA → 0 ... 20 mA
	Load at 4...20 mA outlet	0 ... 600 Ohm (signal conductor resistance + input resistance controller)
Safety	Protection class	III Safety extra-low voltage
	Degree of protection	IP66
	EMC	CE according to 2004/108/EC
	Mode of operation	Type 1
	Ambient temperature	–30 ... +50 °C
	Non-operating temperature	–40 ... +80 °C
	Ambient humidity range	95% r.h., non-condensating
	Rated impulse voltage	0.8 kV
	Control pollution degree	3
Dimension / Weight	Maintenance	Maintenance-free
	Dimension	See «Dimensions» on page 2
	Weight	Approx. 200 g

Safety notes


- The device is not allowed to be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- It does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- The cable glands must be tightened to a torque of 2 to 3 Nm in order to guarantee the specified IP protection

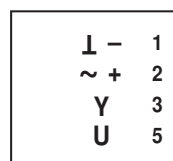
Electrical installation

Signal flow

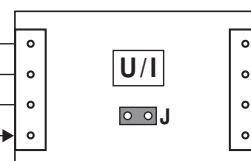
Jumper set for actuators:

...SR
...MF
...MP

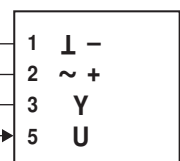
Actuator



Z-UIC



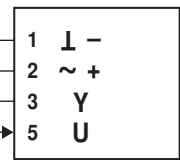
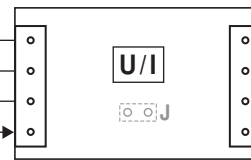
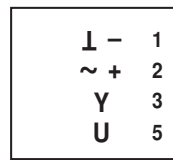
Controller



0 ... 10 V
0 ... 10 V

0 ... 20 mA
0 ... 20 mA

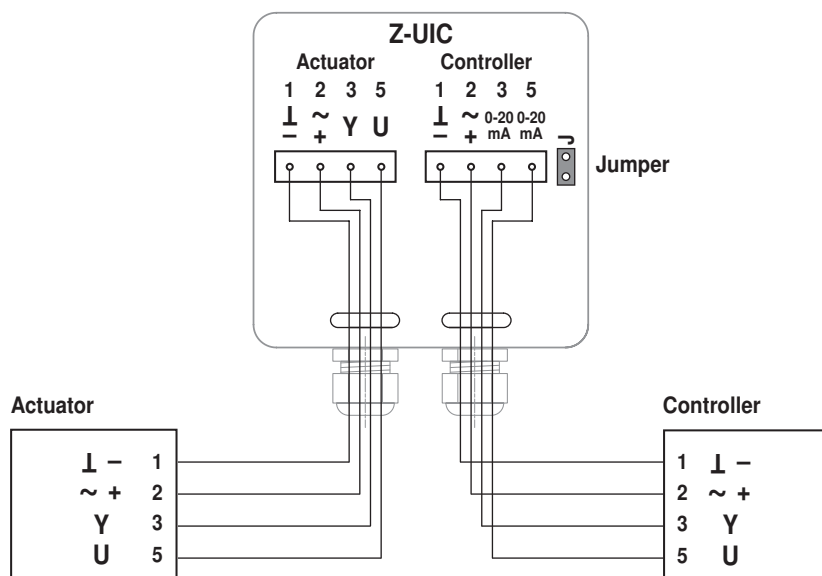
Jumper removed for actuator SM24A-MA



0 ... 20 mA
0(2) ... 10 V

0 ... 20 mA
0(4) ... 20 mA

Wiring diagram



Note

For restrictions with respect to maximum signal conductor length, see Actuator data sheets

Dimensions [mm]

Dimensional drawings

