

EWZ1 Converter

Application

EWZ1 converts a constant 0..10V DC input signal into a 0..20V DC (PWM signal) for magnetic actuating drives with max. 30VA. An external normally open contact (NO contact) sets the output to 100% = 20V (overload e.g. frost-protection function).



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Änderungen vorbehalten - Contents subject to change - Sous réserve de modifications - Reservado el derecho a modificación - Wijzigingen voorbehouden - Con riserva di modifichie - Innehåll som skall ändras - Změny vyhrazeny - Zmiany zastrzeżone - Возможны изменения - A változtatások jogát fenntartjuk - 保留未稊通知而改动的权力

Information about the device description

The description contains information for using and installing the converter EWZ1.

If you have questions that are not covered by the device description, contact the supplier or manufacturer for further information.

The specified regulations/guidelines for mounting and installation are valid for the Federal Republic of Germany. If the device is used in other countries, local regulations are to be complied with at the personal responsibility of the system installer or operator.

Operating personnel are to be instructed according to the description of the specifications sheet.

Safety instructions

The valid work protection, accident prevention and VDE regulations are to be observed for installing and using the devices.

Installation and commissioning work on the devices may only be carried out by qualified technicians. See section "Qualified technicians". Each person who uses the devices must have read and understood the descriptions on the technical data sheet.

If the device is not used according to the device description, the protection provided could be impaired.

Meanings of symbols on the technical data sheet:



DANGER!

Warning of electric voltage

DANGER Means that non-observance could lead to life-threatening danger, serious bodily injury or major material damage.

Qualified technicians

Qualified technicians in the context of the specifications sheet are persons who are familiar with the described devices and who have the necessary qualifications for their job.

This includes, for example:

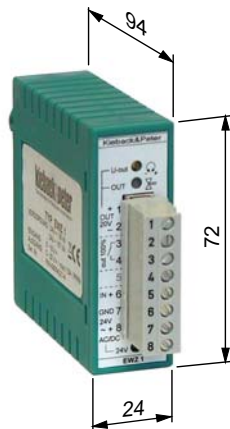
- Authorization to connect the devices in accordance with VDE regulations and the local energy supply company regulations, as well as authorization for switching on, off and enabling devices under observance of in-house regulations.
- Knowledge of accident prevention regulations
- Knowledge of the use of devices within the system
- etc.

Article

EWZ1 Converter

Technical data

Power supply voltage	Power supply voltage
Input	0..10V DC; 1 MOhm
Output	0..20V DC (PWM signal); max 1.5A 20V DC constant, max. 1.5A, PMW signal, approx. 1.9 kHz
LED display	1x operating display 1x operating status/malfunction
Adjusting element (Poti)	Adjustment of the output power of the connected solenoid valve
Ambient temperature	0..50°C
Housing	Plastic, TS35, EN50022
Weight	80g
Degree of protection	IP20
Installation	Control panel installation on standard rail EN 50022 – 35 x 7.5
Connection terminal	Screw terminals: 8-pole: plug-in: max 2.5 mm ²

Dimensions**Installation****DANGER!**

Electrical installation and device connection may only be carried out by qualified technicians, e.g. an electrician.

Be sure to comply with local wiring regulations.

The device must be connected in accordance with the applicable system wiring diagram.

Product description**EWZ1 Converter****Setting and display elements**

Poti: "U-out", output power max 30VA, adjusting the output power of the connected solenoid valve

LED (top) "OUT"

red = output value (trend display)

flashing red = overcurrent fault

flashing red/green = short circuit fault (restart after 10 sec.)

LED (bottom) "24V SUPPLY"

green = in operation

Terminal assignment of the 8-pole, max. 2.5 mm² connector screw terminal

1: Output + (Y out)

2: Output - (Y out)

3: external NO contact

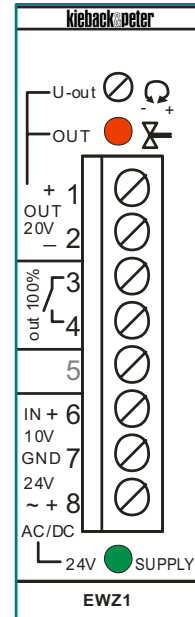
4: external NO contact

An external NO contact on terminals 3 – 4 sets the output to 100% = 20V DC (overload e.g. frost-protection function).

6: Input + , 0..10V DC

7: 0V AC/DC

8: Power supply 24V AC/DC

**Wiring diagram**

Example:

