

TZ-41 selfpowered galvanic isolator

TZ-41 is a galvanic isolator used to galvanically isolate different circuits from each other.

The unit works without auxiliary power.

TZ-41 is enclosed for mounting on profiled bar 35 EN 50022.

Connections to self-opening clamps for max 2,5 mm² wires.

The output can not be left open.

It must be connected or short circuited.

TZ-41 is manufactured according to IEC 688.

Order facts: type TZ-41

Order form: self powered galvanic isolator type TZ-41

Technical data

Input	any range between 0-5 to 0-20 mA
Input current	max 30 mA
Input voltage	max 24 V
Consumption (burden)	≤ 3,3 V (+ burden on output)
Output	see input ratio 1:1
Load	max 600 Ω
Ripple	< 0,5% p.p. (20 mA, 250 Ω)

General data

Accuracy	≤ ± 0,1%
Additional error	+ 0,1% per 100 Ω @ load < 250 W - 0,1% per 100 Ω @ load > 250 W
Response time 0-90%	50 ms
Temperature influence	0,1% per 10°C
Operation temperature	-5...+50°C
Test voltage	2 kV, 50 Hz, 1 min.
Weight	0,1 kg

Standards

General standards for measuring transducers EN 60688, IEC 688

EMC emission EN 50081-2
immunity EN 50082-2

TZ41VINJ

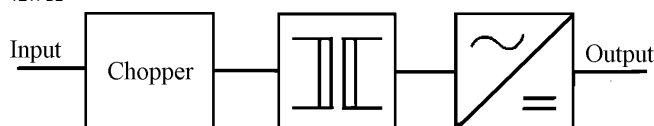


Design

The isolator consists of a chopper that transforms the signal into AC.

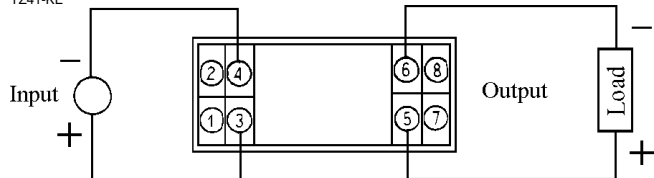
In the next step a transformer gives galvanic isolation. Then the signal is led via a rectifier to the output.

TZ41-BE



Connecting diagram

TZ41-KE



Dimensions (mm)

TZ41-ME

