



BZ900 T

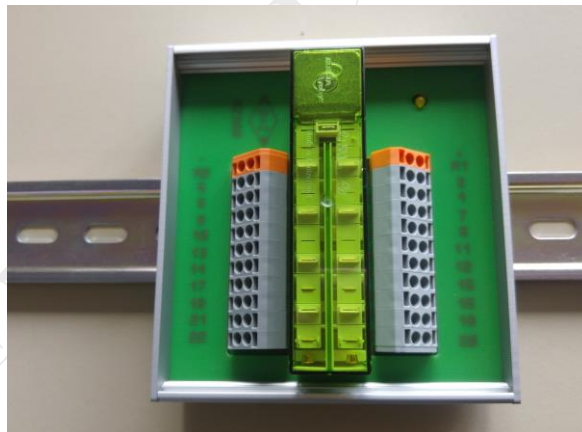
Safety Relay

Nominal voltages available
from 12-220VDC

B+Z Art.Nr. 692

According to standard EN 50155

Electronic devices in rolling stock



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Application / function

Application

This safety relay is designed for use in industrial continuous operation applications. Safety relay according to standard EN61810 type A with forcibly guided contacts and integrated circuit protection. Protective separation between coil/control contacts and output contacts (>8 mm) and output contacts in one row (>8 mm) as well as protective separation between left and right contact side (>10 mm)

- With up to 10 Contacts with different settings available.
- Nominal voltages available from 12VDC up to 220VDC.
- With reverse polarity protection, overvoltage surge protection, LED status indicator
- Wire connector : 2 wire terminal block for looping through on all pins.
- Screwless front connector - wires directly plugable; AWG 24-16

Electrical contact configurations available :

Normally open contacts (NO)	Normally closed contacts (NC)	Model Type (Order code)
3	7	BZ900T-37
7	3	BZ900T-73
4	6	BZ900T-46
8	2	BZ900T-82
5	5	BZ900T-55-36V
9	1	BZ900T-91
6	4	BZ900T-64-36V

Standard version 5 NO / 5 NC.

Function

Used as safety relay in security sensitive environment.
The front side LED is on when the relay is active.



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BZ900T-XX
Safety Relay 36VDC

Technical data

Type designation: **BZ900T-XX-36V (Example for 36V version)**

• Standards

The product is manufactured in accordance with the following standards:

ISO 9001:2015
Electronic equipment used on rolling stock: EN50155
Isolation: EN50124-1
Shock and vibration: EN50155/EN61373
Fire protection according to EN 45545

The standards applicable to this product are dependent on the version available at the time of development.

• Operating Voltage

Nominal voltage: 12VDC – 220VDC (versions available: 12/24/36/48/72/110/220 VDC)
Tolerance according to railway standard: -30% +25%
No load current: Depending on selected coil type ; ca. 110mA at 12V - ca. 7 mA at 220V
Holding coil power: 0,4 W
Protection circuits: Reverse polarity protection, protective circuit for relay coil and Transients suppression diodes

• Contact loads

Relay type: A, according to EN61810
Max. load current: according to table
Minimum current: 10mA at 5 VDC

Maximal contact load at AC 1 with 230 V:

2 contacts with 10 A each
3 contacts with 8,4 A each
4 contacts with 7,3 A each
5 contacts with 6,5 A each
6 contacts with 6 A each
8 contacts with 5 A each
9 contacts with 4,2 A each

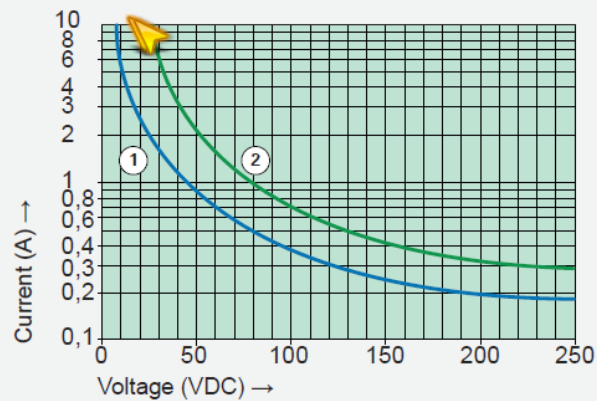


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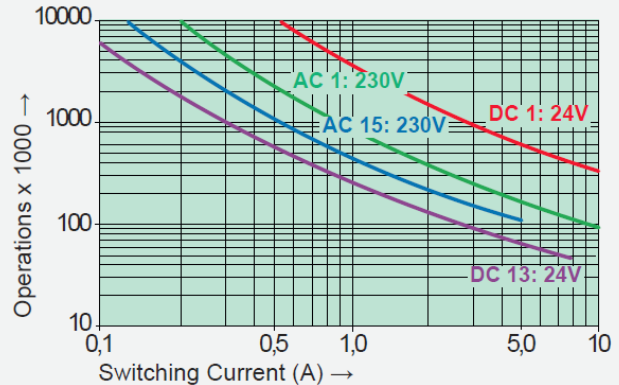
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Load Limit Curve with Direct Current



- 1) Inductive load L/R 40 ms
- 2) Resistive load

Contact Lifetime NO-Contacts



Max. switching characteristics (DIN EN 60947-5-1, Tab. C2):

- AC 15: 230 V / 5 A
- DC 13: 24 V / 7,5 A / 0,1 Hz
- UL 508: C600 / R300

Mechanical data

Measures (WxHxD): 102 x 78 x 60mm
Weight: approx. 170g

• Materials

Housing: Plastic
PCB: Epoxy resin

Mounting: Horizontal on T standard rail 35mm, (EN-50022-35)
Connector type: 2x11-pin double row terminal strip, WAGO
Labelling: A1 + DC V
A2 - DC V
3-22 Contacts

Other conditions

• Climatic conditions

Environment temperature: -40°C bis +70°C Class T3
Humidity : max 90% rF, at30°C, non condensing.

• Disposal

According to local regulations



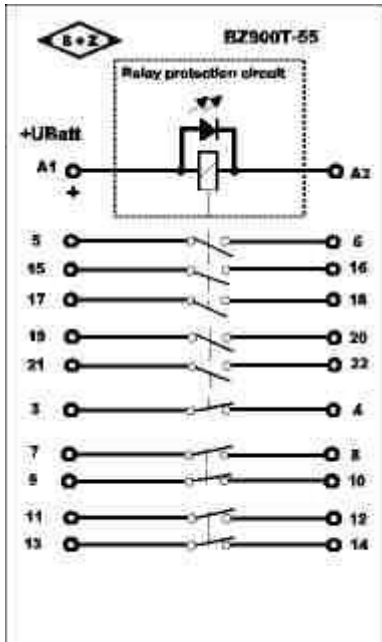
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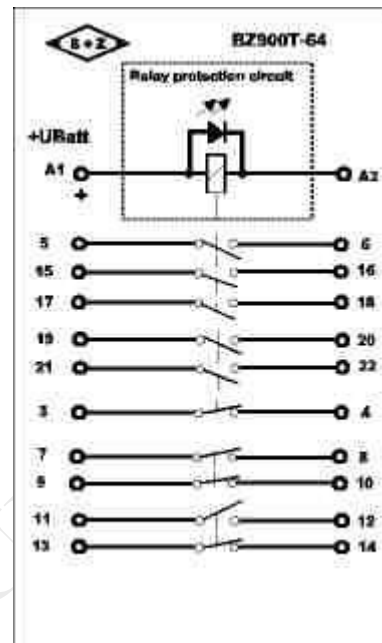
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Safety Relay 36VDC

Connection / Wiring diagram

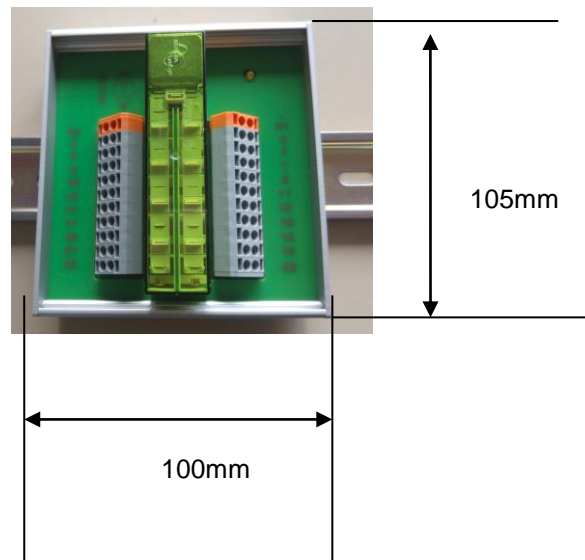
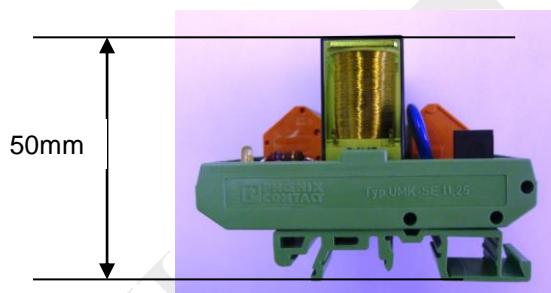
Standard version 5 NC / 5 NO



Version 6 NO / 4 NC



Measures / mounting



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