

User Information

Correct Use

ZCoupling C1

Pre-assembled relay with one changeover contact and socket with push-in connection technology and integrated overvoltage protection.

Features

- One changeover contact with up to 6 A, 230 V AC
- Slim design - 6.2 mm wide
- Signalling of the switching status via LED
- For 35 mm mounting rail (EN 60715 TH35)



Application

The coupling relay ZCoupling C1 is used for the galvanically isolated coupling of signals such as PLC outputs to the periphery.

The relay coil of the C1 is controlled via the terminals A1/A2 of the C1, whereby the changeover contact of the C1 are switched.

Here, 11 represents the COM, 14 the NO and 12 the NC connection.

The integrated protective circuit ensures that connected sensor elements, such as PLC outputs, are optimally protected.

A recessed LED at the top signals the switching status of the coupling relay.

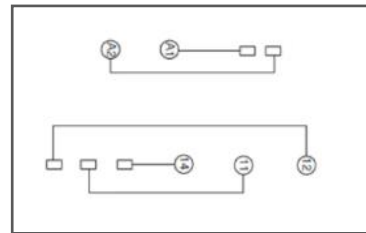
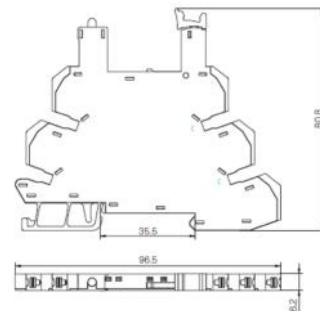
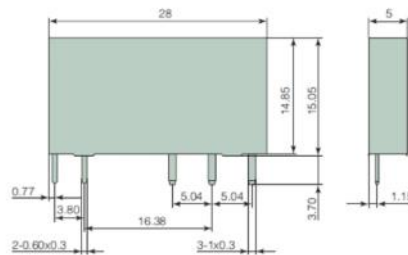


Fig. 1 Block diagram ZCoupling C1

Dimensions



Techn. Data

Control voltage A1 / A2	AC/DC 24 V
Allowable tolerance	± 20%
Power consumption	0.18 W
Contact configuration	1 SPDT
Max. switching voltage	AC 250 V
Max. contact breaking capacity	AC: 250 V, 1500V A, 6 A for ohmic load DC: 30 V, 180 W, 6 A for ohmic load
Distance to adjacent devices of the same power dissipation	0 mm for loads ≤ 3 A 6 mm for loads > 3 A
Contact material	AgNi 90/10
Contact resistance	≤ 100mΩ (1A, 6V DC)
Electrical service life	NO: 3x 10 ⁴ cycles (23°C, 1.5s on, 1.5s off; ohmic load) NC: 1x 10 ⁴ cycles (23°C, 1.5s on, 1.5s off; ohmic load)
Mechanical service life	1x 10 ⁷ cycles
Max. wire width	1,5 mm ² / 16 AWG
Typ. switch-on delay	8 ms
Typ. switch-off delay	4 ms
Dielectric strenght	5 kV (coil/contacts) 1 kV (open contacts)
Insulation resistance	1000 MΩ, 500 VDC
Air humidity	20 - 85%
Temperature range	-40 °C to +85 °C
Impact resistance	Stable operation: 100 m/s ² Damage limit: 1000 m/s ²
Vibration resistance	10 - 55 Hz, 1 mm Amplitude
Max. altitude	≤ 2000 m (above sea level)
Weight	28 g (without packaging)
Cabinet	Cabinet with minimum degree of protection of IP54
Mounting	35 mm DIN-Rail (EN 60715 TH35)

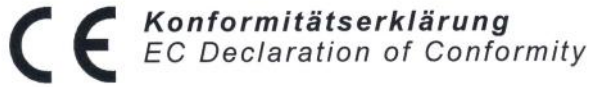
User Information

English translation
Error and technical changes reserved

Order No.

Order No. 456010 ZCoupling C1

EC Declaration



Hersteller: H. ZANDER GmbH & Co. KG
Producer: Am Gut Wolf 15 • 52070 Aachen • Deutschland

Produktgruppe: Funktionsmodule
Product Group: Function Modules

Produkt Name
Product Name

ZCoupling C1

Die Produkte stimmen mit den Vorschriften folgender Europäischer Richtlinien überein:
The products conform with the essential protection requirements of the following European directives:

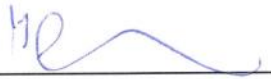
2014/35/EU : Niederspannungsrichtlinie **2011/65/EU** : RoHS Richtlinie
2014/35/EU : Low-voltage directive **2011/65/EU** : RoHS directive

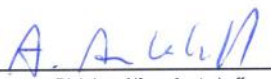
Die Übereinstimmung der bezeichneten Produkte mit den Vorschriften der o.a. Richtlinie wird, falls anwendbar, nachgewiesen durch die vollständige Einhaltung folgender Normen:
If applicable, the conformity of the designated products is proved by full compliance with the following standards:

EN 61810-1:2015+A1

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Aachen, den 21.08.2024


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