

User Information

Correct Use

The ZCoupling C2P focuses on efficient utilisation of installation space while offering high current carrying capacity. With a changeover contact configuration that supports rated currents of up to 10 A, it is ideal for handling large electrical loads.

Pre-assembled relay with 2 changeover contacts and socket with push-in connection technology

Features

- 2 changeover contacts
- Contact load: 10 A
- Push-in wiring
- Only 16.5 mm wide



Application

The ZCoupling C2P is a powerful and reliable electrical switching solution designed to extend, amplify, isolate, and convert signals in various industrial mechanical devices and process control systems.

The relay coil of the C2P is controlled via terminals A1 and A2, which activate the relay's changeover contact. Terminals 3 and 6 serve as the common (COM) connections, 4 and 5 as the normally open (NO) contacts, and 2 and 7 as the normally closed (NC) contacts.

An integrated protective circuit ensures optimal protection for connected sensor elements, such as PLC outputs.

An LED on the top of the socket indicates the switching status.

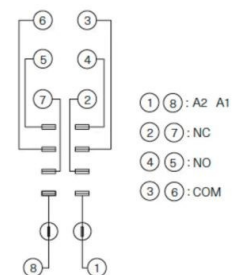
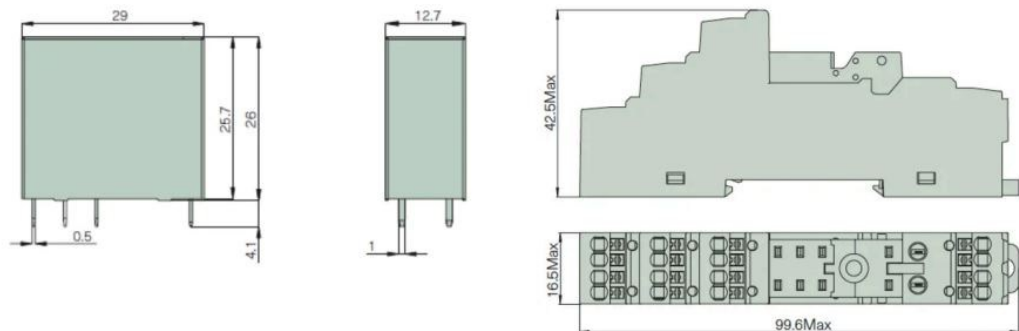


Fig. 1 Schematic diagram of ZCoupling C2P

Installation

In accordance with EN 60204-1, the device is intended for installation in electrical cabinets with a minimum protection rating of IP54. It is mounted on a 35 mm DIN rail in accordance with DIN EN 60715 TH35.

Dimensioned drawing



Safety Precautions



- The installation and operation must be carried out by qualified personnel only,
- who is familiar with the professional handling of machine equipment,
- who is familiar with the valid rules of industrial safety and accident prevention,
- who read and understood the operating instructions.
- The safe function of the device during machine operation cannot be guaranteed in case of wrong connection or improper operation. This may lead to fatal injuries.
- Pay attention to country specific regulations.
- The electrical installation must be performed after disconnecting the device and the machine from the mains supply.
- The wiring must be carried out according to the instructions of this operating manual.
- The person who programs the device must be protect-

- ed against electrostatic discharge (ESD protection).
- Opening the device, any manipulation of the device and the avoidance of the safety facilities are not permitted.
- All relevant safety regulations and standards must be attended to.
- Non-observance of the safety regulations may cause death, severe injuries or substantial damage to property.
- Before use, please, read the operating instructions and keep it in a safe place. Make sure that the operating instructions are always available for installation, initial operation and maintenance.

Techn. Data

Rated voltage A1	24VDC / 230 VAC
Tolerance	+ / - 10%
Contact form	2 changeover contact
Maximum switching capacity	2500 VA / 300 W
Rated resistive load	10A - 250VAC/30VDC
Contact material	Silver alloy contacts
Contact Resistance	≤100mΩ (1A 6VDC)
Electrical endurance	NO-1x10 ⁵ cycles NC-5x10 ⁴ cycles (23°C, 1.5s on, 1.5s off, resistive)
Mechanical endurance	1x10 ⁷ cycles
Ambient temperature (operating)	-40°C to 70°C
Operating humidity (non-condensing)	30% to 85% RH
Impact / Shock	Stable operation 98 m/s ² Damage limit 980 m/s ²
Vibration	10Hz bis 55Hz, 1mm dual amplitude
Weight	app. 62g
Width	16.5mm
Height	42.5mm
Operate time	max. 20 ms, at rated voltage
Release time	max. 20 ms, at rated voltage
Insulation resistance	1000MΩ (500VDC)
Dielectric strenght	Between coil and contacts - 5000VAC, 1min.; 4000V/S Between contact sets - 3000VAC, 1min.; 3000V/S Between open contacts - 1000VAC, 1min.; 2500V/S
Making voltage	75% rated voltage
Breaking voltage	10% rated voltage
Rated power	typ. 530mW
Coil resistance	1100Ω ± 10% at 23°C
Rated current - socket	16A
Rated voltage - socket	300V
External connection wire	0.5 to 2.5mm ² ; 20 to 14 AWG
Protection	IP20
Operation height	≤ 2000 m above seelevel
Cabinet	min. IP54
Mounting	35 mm rail DIN EN 60715 TH35



Variants

Order no. 456015	ZCoupling C2P input voltage DC 24 V
Order no. 456016	ZCoupling C2P input voltage AC 230 V



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
ZCoupling C2P
ZCoupling C4

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:

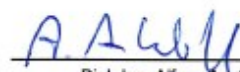
EN 61810-1:2015+A1

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Aachen, 11.02.2025



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