# OCL1 24VAC/DC

Manufacturer data sheet: V1.044

## Complementary products- Coupling module

Status: Available Data sheet created: 01.07.2025

**Item Number:** 170017 - **Serie:** Octo - **EAN:** 9008662000742




- Coupling modules Series OCTO
- Threshold switch: 2 bis 20mA
- Function: HAND/0/AUTO via switch
- Analoginput: 0...20mA
- 1 change over contact
- Digitaloutput: Checkback signal of the switch setting "Auto"
- Width: 17,5mm
- Installation type
- Auxiliary voltage: 24V AC/DC -15%..+10%, 1,0VA

## Description

Coupling units allowing manual intervention in the control process provide benefits in maintaining and operating individual plant sections. Current transformers for converting analog signals or temperatures to standard signals are also available.

## General information

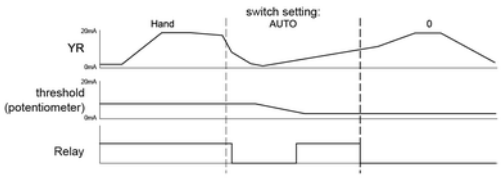
| | |
|---|---|
| **Short description** | Coupling modules Series OCTO |
| **Item Number** | 170017 |
| **EAN** | 9008662000742 |
| **Main category** | Complementary Products |
| **Series** | Octo |
| **Type** | OCL1 24VAC/DC |
| **Design** | Installation design |
| **Supply** | 24V AC/DC |
| **Dimensions** | 17.5 x 87 x 65 mm |

# OCL1 24VAC/DC



## Functions and measurands

**Amount of functions** 3




**Automatic (AUTO)**

The contact of checkback B1-B2 is closed. The output relay R switches into on-position (yellow LED illuminated) when the signal voltage applied at the terminals YR-A2 exceeds the the value adjusted at the regulator. The output relay switches into off-position (yellow LED not illuminated) when the signal voltage falls below the set value by more than the fi xed hysteresis.

**Permanently OFF (0)**

The contact of checkback B1-B2 is opened. The output relay R remains in off-position (yellow LED not illuminated) independent from the connected signal voltage.

**Permanently ON (HAND)**

The contact of checkback B1-B2 is opened. When the supply voltage U is applied at terminal A1 the output relay R switches into on-position (yellow LED illuminated). Changes of the signal voltage do not infl uence the state of the output relay.

## Indicators

| | |
|---|---|
| **Supply/time lapse 1** | Green LED ON: indication of supply voltage |
| **Relay state** | Yellow LED ON/OFF: indication of relay output |

## Mechanical design

| | |
|---|---|
| **Housing material** | made of self-extinguishing plastic |
| **Housing - protection degree** | IP40 |
| **Mounting** | top hat rail TH 35 7,5-15 according to IEC 60715:2017 / EN 60715:2017 |
| **Terminals/connections** | Touch-proof clamping yoke terminals according to DGUV 3 (Screwdriver PZ1 required) |
| **Terminals - protection degree** | IP20 |
| **Mounting position** | any |
| **Max. Tightening Torque** | 1 Nm |
| **Terminal capacity** | • 1 x 0.5 to 2.5mm² with/without ferrule<br>• 1 x 4mm² without wire end ferrule<br>• 2 x 0.5 to 1.5mm² with/without end sleeves<br>• 2 x 2.5mm² flexible without ferrules |

## Supply circuit

| | |
|---|---|
| **Terminals/connections** | A1(+)-A2 |
| **Supply voltage d.c.** | 24 V |
| **Supply voltage tolerance d.c.** | -15% ... +10% |
| **Rated consumption d.c.** | 0.4 W / 0.4 VA |
| **Supply voltage a.c.** | 24 V |
| **Supply voltage tolerance a.c.** | -15% ... +10% |
| **Rated frequency [Hz]** | 48 ... 63 Hz |
| **Rated consumption a.c.** | 0.4 W / 0.4 VA |
| **Duty cycle** | 100% |
| **Residual ripple** | 10% |
| **Drop-out voltage** | > 30% Un |

## Output Curcuit

| | |
|---|---|
| **Gesamtkontakte** | Relay |
| **Type** | 1 change over contact |
| **Contact 1** | 11-12-14 |
| **Switching Capacity 1** | 1250 VA (5 A / 250 V a.c.) (distance < 5 mm) |
| **Switching capacity** | 2000 VA (8 A / 250 V a.c.) (distance > 5 mm) |
| **Fuse Protection** | 8 A quick |
| **Mechanical life** | 15 x $10^6$ Switching cycles |
| **Electrical life** | 100 x $10^3$ Switching cycles (1000 VA resistive load) |
| **Switching frequency** | max. 60/min at 100 VA resistive load |
| **Switching frequency 2** | max. 6/min at 1000 VA resistive load (IEC 60947-5-1) |

## Measuring circuit

| | |
|---|---|
| **Measurand** | Current - one phase |
| **Terminals/connections** | YR(+)-A2 |
| **Input resistance** | 500 □ |
| **Switching threshold minimum** | 2 ... 20 mA d.c. |
| **Hysteresis** | fixed, approx. 10% (of threshold) |

## Accuracy

| | |
|---|---|
| **Base accuracy** | ±5% (of maximum scale value) |
| **Adjustment accuracy** | ±10% (of maximum scale value) |
| **Temperature influence** | ≤0.01% / °C |

## Checkback

| | |
|---|---|
| **Setting ‚AUTO'** | terminals B1-B2 |
| **Maximal switching capacity** | 56 VA (2 A / 28 V a.c./d.c.) |
| **Minimal switching capacity** | 5 mVA (1 mA / 5 V a.c./d.c.) |
| **Contact resistance** | max. 20 mΩ |
| **Electrical service life** | 30 x $10^3$ operations at maximum load |

## Ambient conditions and general specifications

| | |
|---|---|
| **Ambient temperature IEC** | -25 ... +55°C (IEC 60068-1) |
| **Storage temperature** | -25 ... +70°C |
| **Transport temperature** | -25 ... +70°C |
| **Relative humidity** | 15% ... 85% (IEC 60721-3-3 class 3K3) |
| **Pollution degree** | 2, pollution level can be increased by installation in suitable enclosures (according to IEC 60664-1) |

## Logistics

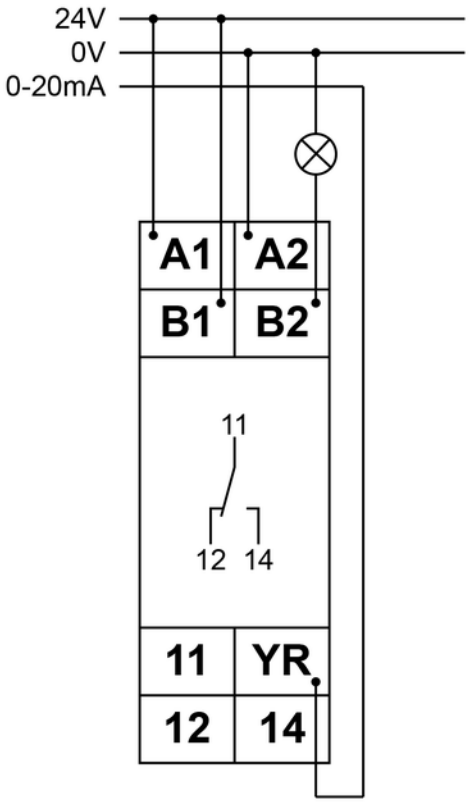
| | |
|---|---|
| **Minimum Quantity** | 1 |
| **Tariff Number** | 85364900 |
| **EAN** | 9008662000742 |
| **Country of Origin** | AT |
| **Product Weight (g)** | 60 |

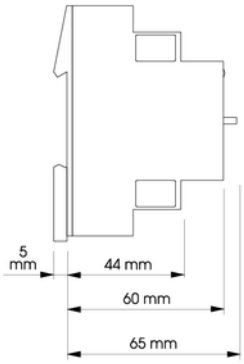
## Available declarations / conformities

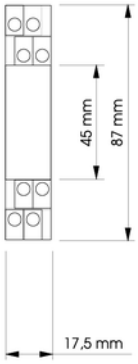
| | |
|---|---|
| **EAC** | ✓ |
| **CE** | ✓ |
| **REACH** | Open document |
| **WEEE** | Open document |
| **TSCA** | Open document |
| **RoHs** | Open document |
| **CMRT** | Open document |

## Media & drawings



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Changes and errors excepted