# Coupling relays - OCTO series

- Installation design
- Width 17.5mm
- Trigger 0 to 10VDC
- Checkback signal of the switch setting ,AUTO
- 1 change over contact



## Technical data

#### **▶** 1. Functions

AUTO output according to input YR permanently OFF

HAND permanently ON

#### **▶** 2. Indicators

Green LED ON: indication of supply voltage Yellow LED ON/OFF: indication of relay output

#### 3. Mechanical design

Self-extinguishing plastic housing, IP rating IP40 Mounted on DIN-Rail TS 35 according to EN 50022

Mounting position: any

Shockproof terminal connection according to VBG 4

(PZ1 required), IP rating IP20

Initial torque: max. 1Nm

Terminal capacity:

1 x 0.5 to 2.5mm<sup>2</sup> with/without multicore cable end

1 x 4mm² without multicore cable end

2 x 0.5 to 1.5mm² with/without multicore cable end 2 x 2.5mm² flexible without multicore cable end

#### 4. Input circuit

Supply voltage: 24V AC/DC terminals A1(+)-A2 Tolerance: 24V AC/DC -15% to +10%

Rated frequency: 48 to 63Hz

Rated consumption: 24V AC/DC 0.58VA (0.33W)

Duration of operation: 100% Reset time: -

Residual ripple for DC: 10%

Drop-out voltage: >30% of supply voltage

#### **▶** 5. Output circuit

1 potential free change over contact

Switching capacity (distance < 5mm): 1250VA (5A / 250V AC) Switching capacity (distance > 5mm): 2000VA (8A / 250V AC)

Fusing: 8A fast acting
Mechanical life: 20 x 10<sup>6</sup> operations
Electrical Life: 2 x 10<sup>5</sup> operations
at 1000VA resistive load

Switching frequency: max. 60/min at 100VA resistive load max. 6/min at 100VA resistive load

according to IEC 947-5-1)

Insulation voltage: 250V AC (according to IEC 664-1)
Surge voltage: 4kV, overvoltage category III
(according to IEC 664-1)

#### 6. Measuring circuit

Input: 10V DC terminals YR(+)-A2

#### 7. Checkback

Setting ,AUTO': terminals B1-B2
Maximum switching capacity: 56VA (2A / 28V AC/DC)
Minimum switching capacity: 5mVA (1mA / 5V AC/DC)

Contact resistance:  $max. 20m\Omega$ 

Electrical life: 3 x 10<sup>4</sup> operations at maximum load

#### 8. Accuracy

Base accuracy: ±1% (of maximum scale value)
Adjustment accuracy: ±10% (of maximum scale value)

Repetition accuracy: Voltage influence: -

Temperature influence: ≤0.01% / °C

#### **▶** 9. Ambient conditions

Ambient temperature: -25 to +55°C (according to IEC 68-1)

Storage temperature: -25 to +70°C
Transport temperature: -25 to +70°C
Relative humidity: -25 to +70°C
Relative humidity: 15% to 85%

(according to IEC 721-3-3 class 3K3)

Pollution degree: 2, if built-in 3

(according to IEC 664-1)

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 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 fixed hysteresis.



The contact of checkback B1-B2 is opened.

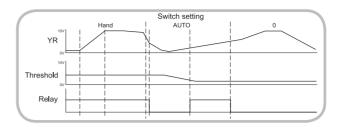
The output relay R remains in off-position (yellow LED not illuminated) independent from the connected signal voltage.

### Permanently ON (HAND)

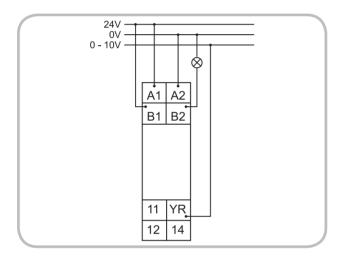
The contact of checkback B1-B2 is opened.

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 influence the state of the output relav.



## Connections



# Dimensions

