# Coupling relays - OCTO series

# OVL1

- 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
0	permanently OFF
HAND	permanently ON

### 2. Indicators

Subject to alterations and errors

Green LED ON: Yellow LED ON/OFF:

#### 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

indication of supply voltage

indication of relay output

- 1 x 4mm<sup>2</sup> without multicore cable end
- 2 x 0.5 to 1.5mm<sup>2</sup> with/without multicore cable end
- 2 x 2.5mm<sup>2</sup> 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) 8A fast acting Fusing: Mechanical life: 20 x 10<sup>6</sup> operations Electrical Life: 2 x 10<sup>5</sup> operations at 1000VA resistive load max. 60/min at 100VA resistive load Switching frequency: max. 6/min at 1000VA resistive load according to IEC 947-5-1) 250V AC (according to IEC 664-1) Insulation voltage: 4kV, overvoltage category III Surge voltage: (according to IEC 664-1)

### 6. Measuring circuit

Input:	10V DC	terminals YR(+)-A2
Input resistance:	10kΩ	
Switching threshold:	1 to 10V DC	
Hysteresis:	fixed, approx.	. 10%

# 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. 20mΩ

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

# 8. Accuracy

Base accuracy: Adjustment accuracy: Repetition accuracy: Voltage influence: Temperature influence:

## ±1% (of maximum scale value) ±10% (of maximum scale value) -

 ${\leq}0.01\%$  /  $^{\circ}C$ 

### 9. Ambient conditions

Ambient temperature: Storage temperature: Transport temperature: Relative humidity: -25 to +55°C (according to IEC 68-1) -25 to +70°C -25 to +70°C 15% to 85% (according to IEC 721-3-3 class 3K3) 2, if built-in 3 (according to IEC 664-1)

Pollution degree:

Release 11/02

# OVL1

# Functions

### 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 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.

#### 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.

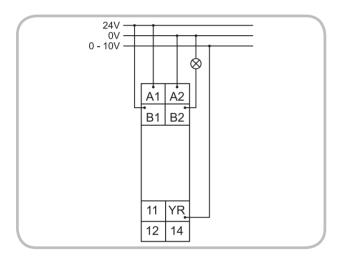
## Permanently ON (HAND)

relay.

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

# Connections



# Dimensions

