

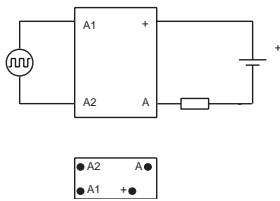
# Miniature optocouplers for DC loads

Output 100 mA



## Properties

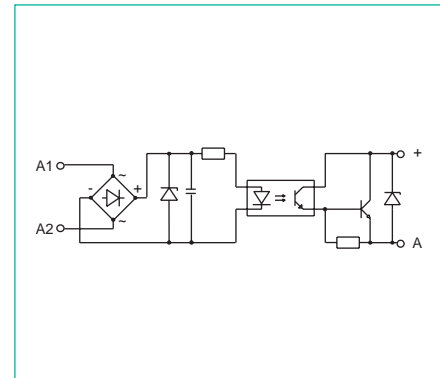
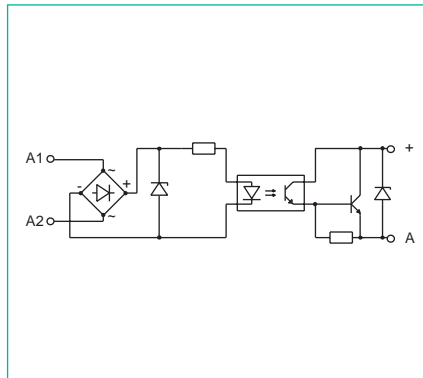
- Optocoupler for signal currents
- To solder or to plug in base elements (5 mm pin grid)
- Available with input voltages from 5 to 110 V DC or 24 to 230 V AC
- With integrated output polarity protection
- Input independent of polarity
- With defined on and off thresholds



View of the connections



45331/9



## Technical data

### Input

Control voltage range  
 Input current at  $U_n$   
 Switching level: off / not permitted / on  
 Max. transmission frequency  
 (Res. load,  $T_a = 25^\circ\text{C}$ , DC=50%,  $i = 0.5 \times I_{\text{max}}$ )

### Output

Max. voltage  
 Max. current  
 Residual voltage drop ( $I_{\text{Load}} = 10 \text{ mA}$ )  
 Output circuit\*

### General data

Testing voltage  
 Temperature range  
 Size L x W x H  
 Connecting pins  
 PCB hole diameter



## Order numbers

$U_n =$  5 V DC  
 12 V DC  
 24 V DC  
 48 V DC  
 110 V DC  
 24 V AC/DC  
 115 V AC/DC  
 230 V AC/DC

### DC input / output 100 mA

$U_n \pm 20\%$   
 about 5 mA (110 V: about 3 mA)  
 $< 0.4 U_n / 0.4 - 0.8 U_n / > 0.8 U_n$   
 $U_{\text{Aus}} = 60 \text{ V: } 600 \text{ Hz (45331/9: } 300 \text{ Hz)}$   
 $U_{\text{max}} = 150 \text{ V: } 100 \text{ Hz}$

$U_{\text{max}} = 150 \text{ V DC}$   
 $I_{\text{max}} = 100 \text{ mA}$   
 about 0.7 V  
 2 wires

2.5 kV  
 $-25^\circ\text{C}$  up to  $+45^\circ\text{C}$   
 29 x 12.5 x 15 mm  
 0.64 x 0.64 mm  
 1.0 - 1.3 mm

### AC/DC input / output 100 mA

$U_n \pm 20\%$  (115 V, 230 V:  $\pm 15\%$ ) AC  
 about 5 mA (115 V, 230 V: about 2 mA)  
 $< 0.4 U_n / 0.4 - 0.8 U_n / > 0.8 U_n$   
 $U_{\text{max}} = 50 \text{ V: } 10 \text{ Hz}$

$U_{\text{max}} = 50 \text{ V DC}$   
 $I_{\text{max}} = 100 \text{ mA}$   
 about 0.1 V  
 2 wires

2.5 kV  
 $-25^\circ\text{C}$  up to  $+45^\circ\text{C}$   
 29 x 12.5 x 15 mm  
 0.64 x 0.64 mm  
 1.0 - 1.3 mm

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 45331/1  
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 45337/15  
 45337/14

\* If the loads are inductive, a surge protection must be provided