

# Snap-Line AC Optocouplers

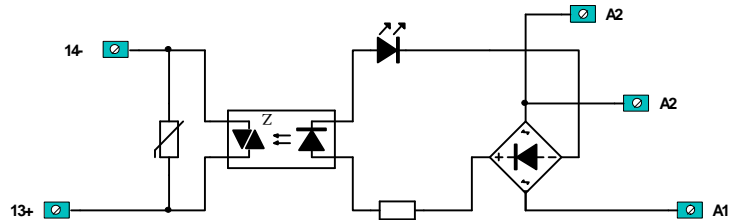
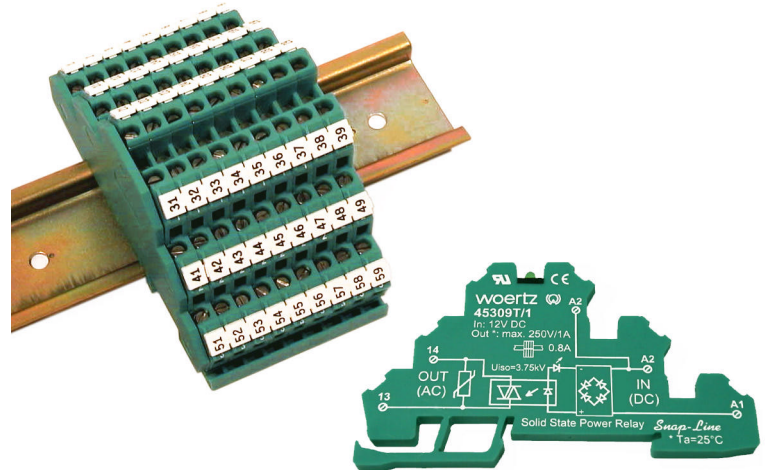
DC input, small signal or medium power AC load

## Features

- Signal and medium power AC optocoupler in terminal housing, 5.08mm wide
- LED indicating on state
- AC switch rating up to 250VAC
- For many applications where isolation and rapid switching are important
- Available for common industrial voltages

## Accessories

- 30407T End barrier (necessary for proper isolation)
- 30403 Compatible 3-level terminal
- 30413RO Cross connection 20-pole red
- 30413BL Cross connection 20-pole blue
- 30790 Cross connection 10-pole grey
- 30409/x Cross connection with screws x = 2, 3, 4, 5, 10 poles
- 30411, 12 Isolation strip red, blue
- 80247, 48 Test plug red, black
- 30455/55xx Labels for custom use RB5x5



The 5V version has unidirectional input (no rectifier)

## Technical data (Ta = 25°C)

### Output

Max. switching voltage ( $U_{max}$ )  
 Max. switching current ( $I_{max}$ )  
 Max. transient current (during on state)  
 Voltage drop ( $I = 0.5 \times I_{max}$ )

### 50 mA

250 VAC \*  
 50 mA AC  
 0.5A/ 0.1 ms  
 ca. 2 V

### 1 A

250 VAC \*  
 1 A AC \*\*  
 20 A/ 0.1 ms  
 ca. 1.5 V

### Input

Operating voltage tolerance

$\pm 20\%$   
 5 V:  $\pm 10\%$   
 48 V:  $\pm 15\%$

$\pm 20\%$   
 5 V:  $\pm 10\%$   
 48 V:  $\pm 15\%$

Input current at operating voltage ( $U_N$ )

11 mA

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Switch on level (Input between off and on level is forbidden)

$>0.8 \times U_N$

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Switch off level (Input between off and on level is forbidden)

$<0.4 \times U_N$

$<0.4 \times U_N$

Max. transmission frequency

10Hz

10Hz

(res. Load, DC=50%,  $i=0.5 \times I_{max}$ )

### General data

Input / output dielectric strength  
 Input / output creepage distance  
 Operating temperature range  
 Wire cross section  
 Max. torque  
 Size L x B x H (from rail)

3.75 kV  
 3.0 mm  
 -25°C to +45°C  
 2.5mm<sup>2</sup> (AWG24-14)  
 0.4 Nm  
 5.08 x 86.5 x 44 mm

3.75 kV  
 3.0 mm  
 -25°C to +45°C  
 2.5mm<sup>2</sup> (AWG24-14)  
 0.4 Nm  
 5.08 x 86.5 x 44 mm

### $U_N$

5 VDC  
 12 VDC  
 24 VDC  
 48 VDC

### Order numbers

### 50 mA

45308T/7  
 45308T/1  
 45308T/2  
 45308T/3

### 1 A

45309T/7  
 45309T/1  
 45309T/2  
 45309T/3

For protection against accidental contact, an end barrier (3047T) should be placed at the end of a snap-Line block

\* If high voltage, high dV/dt or dI/dt, it is recommended to use an RC network (snubber) across terminals 13 and 14

\*\* If closely stacked and continuously operated, the rated current should not exceed 0.8A