

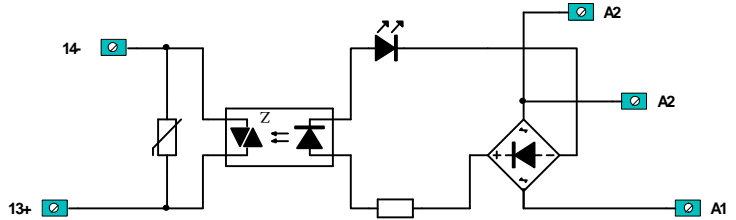
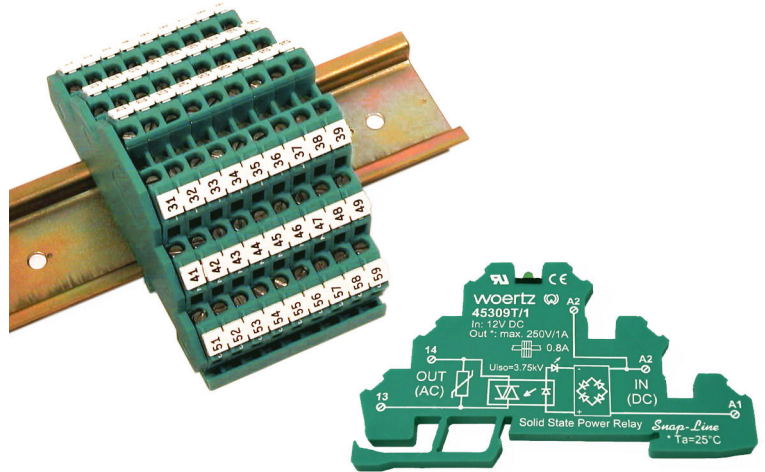
DC input, small signal or medium power AC load

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 x 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

± 20%
 5 V: ± 10%
 48 V: ± 15%

± 20%
 5 V: ± 10%
 48 V: ± 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 x U_N

>0.8 x U_N

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

<0.4 x U_N

<0.4 x U_N

Max. transmission frequency

10Hz

10Hz

(res. Load, DC=50%, i=0.5 x 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
 2.5mm² (AWG24-14)
 0.4 Nm
 5.08 x 86.5 x 44 mm

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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