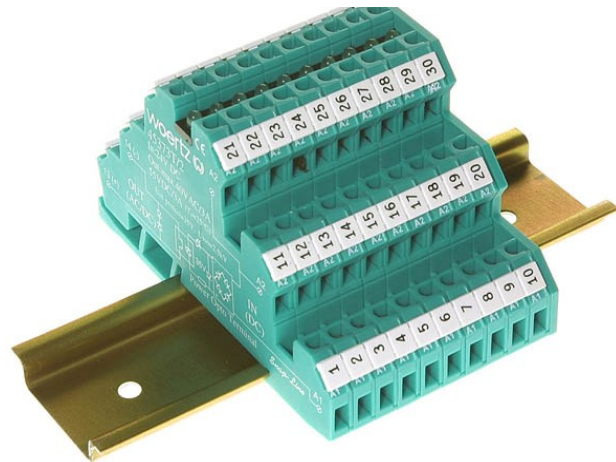


**Woertz –USA**  
 151 Discovery Drive #111  
 Colmar, PA 18915  
 Tel: (215) 997-8855  
 Fax: (800) 522-3868  
 Internet: [www.woertz-usa.com](http://www.woertz-usa.com)  
 Email: [woertz1@erols.com](mailto:woertz1@erols.com)

## Snap-Line high speed / active Optocouplers

DC or AC input, Push-Pull output

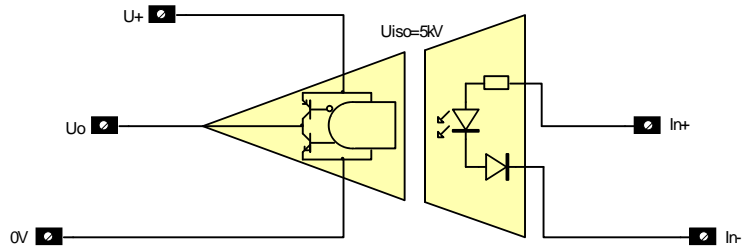


### Features

- High speed active (push-pull) optocoupler in terminal housing, 5.08mm wide
- LED indicating on state
- For isolated data transmission up to 1.5Mb/s
- As level shifter between systems with different voltage or earth potential
- As booster / amplifier of weak signals
- Direct interface to capacitive loads like MOSFETs and IGBTs
- Proximity switch interface: PNP booster or NPN to PNP inverter
- As sinus to square wave converter
- Available for all common industrial voltages

### Accessories

- 30407T End barrier
- 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 AC versions have a rectifier circuit in stead of the diode

### Technical data (Ta = 25°C, U<sup>+</sup>=24V unless otherwise noted)

#### Supply

Supply voltage range  
 Supply current (no load)

#### Output

Output voltage (no load)

Max. transmission frequency (res. Load, DC=50%, i=30mA)  
 Max. output current (sink and source, f < 500kHz)  
 Max. transient output current (sink and source)

#### Input

Input voltage tolerance  
 Input current at rated input voltage (U<sub>N</sub>)  
 Switch on level  
 Switch off level

#### General data

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

### High speed input

4-30VDC  
 8mA (DC), 17mA (1.5MHz)

"0" < 0.3V, "1" > U<sup>+</sup> - 2V  
 (eg. for TTL output: U<sup>+</sup> = 5V)

1.5 MHz  
 100 mA  
 0.4 A

± 20 %  
 5, 115, 230 V: ± 15 %  
 ca. 5 mA, 110-230 V: 2-3 mA  
 > 0.8 x U<sub>N</sub>  
 < 0.2 x U<sub>N</sub>

5 kV  
 3.0 mm  
 -10 °C to +45 °C  
 2.5 mm<sup>2</sup> (AWG 24-14)  
 0.4 Nm  
 5.08 x 86.5 x 44 mm

### AC/DC input

4-30VDC  
 8mA

"0" < 0.3V, "1" > U<sup>+</sup> - 2V

10 Hz  
 100 mA  
 0.4 A

± 20 %  
 5, 115, 230 V: ± 15 %  
 ca. 5 mA, 110-230 V: 2-3 mA  
 > 0.8 x U<sub>N</sub>  
 < 0.2 x U<sub>N</sub>

5 kV  
 3.0 mm  
 -10 °C to +45 °C  
 2.5 mm<sup>2</sup> (AWG 24-14)  
 0.4 Nm  
 5.08 x 86.5 x 44 mm

### Control Voltage

TTL / 5 VDC  
 12 VDC  
 24 VDC  
 48 VDC  
 110 VDC  
 24 VAC/DC (>40Hz)  
 115 VAC/DC (>40Hz)  
 230 VAC/DC (>40Hz)

### Order numbers

### High speed input

**45315T/7**  
**45315T/1**  
**45315T/2**  
**45315T/3**  
**45315T/9**

### AC/DC input

**45316T/12**  
**45316T/15**  
**45316T/14**