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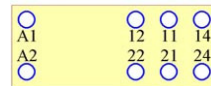
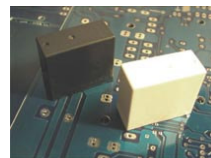
Current Input Optocouplers

Features

- A range of current input optocouplers in **Electrobrick** plug-and-play enclosures (same shape as the common industrial relays).
- Compact, flexible and easily exchanged. Delivered with a DIN rail socket, with quality screw terminals
- Standard socket with plastic clip, low-cost version with metal clip.
- Available without socket, for direct PCB mounting or for customer's choice of socket.
- With high isolation voltage and distance.
- Higher input currents on request (with external shunt resistor)
- On request: other specifications, very high power version (10A), time delay etc.



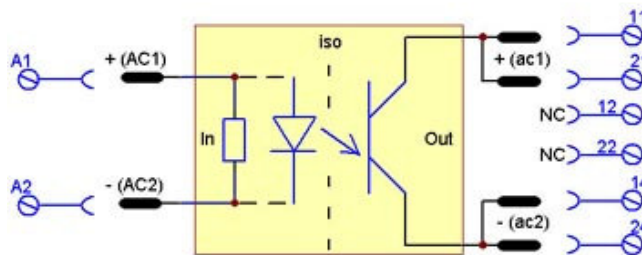
Optocoupler on a Din rail socket



Modules without sockets (bottom view)

Available accessories

- All sockets: jumpers
- Standard sockets: labels and LED modules



Block diagram

Technical data (Ta = 25°C)

Output

Max. switching voltage
 Max. continuous current (I_{out})
 Max. transient current
 Voltage drop (at 0.5x I_{max})
 Rise time (off to on)
 Fall time (on to off)

AC/DC in, low power

100mA DC output

60VDC
 100mA
 0.5A/ 10ms
 ~0.3V
 to be defined
 to be defined

AC/DC in, high volt.

0.5A AC/DC output

250VAC/350VDC
 0.5A (** 0.2A)
 12A/ 0.1ms
 <1V
 ~100ms
 ~150ms

Input

Control current tolerance (sure on state) $I_c \pm 25\%$
 Control current off state (sure off state) <10% of I_c

$I_c \pm 25\%$ (** $I_c - 25\% / +75\%$)
 <10% of I_c

do not operate the input continuously in the not specified area (10%..75% of I_c)!

Max. voltage drop (at I_c)
 Max. switching freq. (res. load)
 AC input frequency

<1.6V
 to be defined
 50Hz-10kHz

<1.6V
 2Hz
 50Hz-10kHz (** 30kHz)

General data

Input / output dielectric strength
 Operating temperature range
 Max. wire cross section
 Socket max. size L x W x H
 Module max. size LxWxH (w/o pins)
 Module pins
 PCB hole size

2.5kV, 3mm
 -10 °C to +45 °C
 6mm² (AWG10)
 Standard ver.: 16 x 82.5 x 72mm, Low-cost ver.: 16 x 68.5 x 50.5mm
 29x12.8x25.5mm
 gold plated, length ~5mm, 0-3A ver.: 0.64x0.64mm, 5-10A ver.: power pins=0.6x1.5mm
 all versions: 1.1mm, 5-10A versions: 1.6mm for the 4 power pins

Order numbers

Control current I_c

0.5A AC/DC

O10-0.5AAD

O12-0.5AAD

O10M..= only module without socket

** Tested special condition for O12-0.5AAD: $I_c < 875mA$, $I_{out} < 200mA$, $f < 30kHz$,

Sockets can be purchased separately: P/N: 45740S