





Main Features

- 4 x Form crelay with 10A @12VDC/5A @24VDC
- 4 x Digital inputs and 4 x digital outputs
- 1 x Analog input and 1 x frequency input
- Various communication interface of RS-232 and USB 2.0
- Wide range DC input from 9~36V
- Wide operating temperature -40°C~70°C
- Compatible with CE, FCC class A

Product Overview

VTK-RELAY is a super slim, ruggedized RELAY module. It is remotely controlled through an on board MCU and transmitted via RS-232 or USB 2.0 communication. With 4 x relay output, $4 \times DI$, $4 \times DO$, $1 \times A \times DI$, $4 \times DI$, 4

Specifications

Relay Output

- Channel: 4 channels
- Type: Form C
- Connector: 3 x plug-in terminal blocks
- Contact current rating: 10A @12VDC/5A @24VDC

Digital Input

- Channel: 4 channels
- Sensor type: wet contact (default)/dry contact
- I/O mode: DI
- Wet contact: 12V @2.6mA/24V @5.3mA
- Dry contact: external 0 to 36V

Digital Output

- Channel: 4 channels
- Sensor type: wet contact (default)/dry contact
- I/O mode: DO
- Wet contact: 9 to 36V, 9V @13.2mA/12V @17.6mA/24V @25.29 mA/ 36V @52.7mA
- Dry contact: external 0 to 36V

Analog Input

- Channel: 1 channel
- Resolution: 10 bits
- I/O mode: voltage/current input
- Input range: 0 to 36V, 0 to 2A

Frequency Input

- Channel: 1 channel
- I/O mode: frequency (PWM) input
- Input frequency range: 2Hz to 18KHz

Power Requirements

- Input voltage: 9 to 36 VDC
- Input current: 70mA @12 VDC

I/O Interface-Relay Side

- 4 x Relay's 3 plug-in terminal blocks for N.O./COM/N.C.
- 4 x LED indicator for activated relays 1 to 4

I/O Interface-IO Side

- 1 x DB9 for RS-232
- 1 x Type A USB 2.0
- 1 x DC input 9~36V (2 plug-in terminal block for Vin/GND)

I/O Interface-COM/USB Side

- 1 x 10 plug-in terminal blocks for 4 x DI/4 x DO/EXT. PWR V+, GND
- 1 x 4 plug-in terminal blocks for analog input/frequency input/EXT. PWR GND

Operating System

- Windows driver
- Linux (by request)



Dimension Drawing 04.50 109.50 120.00 120.00 124.00 1

Dimensions

- 124mm (W) x 123mm (D) x 24mm (H) (4.88" x 4.84" x 0.94")
- Weight: 0.42kg (0.9lbs)

Environment

- Temperature
 - Operating temperatures: -40°C to 70°C
 - Storage temperatures: -45°C to 85°C
 - Damp heat test per EN60068-2-30
- Humidity
- IEC60068-2-3, damp heat steady state test, 40C, 95%, 48hrs
- Vibration
 - IEC 60068-2-64, 2G
 - Operating: MIL-STD-810G, 514.6C Procedure 1, Category 4
 - Storage: MIL-STD-810G, 514.6E Procedure 1, Category 24
- Shock
 - MIL-STD-810G, 516.6 Procedure I, trucks and semi-trailers=40g
 - Crash hazard: Procedure V, ground equipment=75g

Certifications (compatible)

- CE
- FCC Class A

Ordering Information

VTK-RELAY-01 (P/N: TBD)