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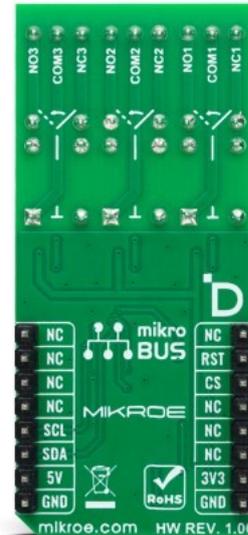www.mikroe.com

Relay 5 Click

PID: MIKROE-5675

Relay 5 Click is a compact add-on board with general-purpose relays that any host MCU can control. This board features three J1031C3VDC.15S, a high-current single-pole double-throw (SPDT) signal relays controlled by the PCA9538A, a low-voltage 8-bit I/O port expander from NXP Semiconductors. Highly sensitive, the J1031C3VDC.15S offers a low coil power consumption in a small, lightweight package with PC pin mounting. It comes with a dimension of 12.5x7.5x10 millimeters (LxWxH) and a 1C contact arrangement with a coil voltage of 3VDC, providing a maximum switching voltage of 125VAC/60VDC. This Click board™ makes the perfect solution for controlling high-power applications.

Relay 5 Click is is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Specifications

Type	Relay
Applications	Can be used for controlling high-power applications
On-board modules	J1031C3VDC.15S - high-current single-pole double-throw (SPDT) signal relays from CIT Relay and Switch PCA9538A - low-voltage 8-bit I/O port expander from NXP Semiconductors
Key Features	Three electro-mechanical relays, low power consumption, reliable switching, high current, high sensitivity, SPDT configuration, relay activity indicators, long mechanical life, control over the I/O port expander, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

Relay 5 click example on Libstock

Relay 5 click 2D and 3D files

J1031C3VDC.15S datasheet

PCA9538A datasheet

Relay 5 click schematic