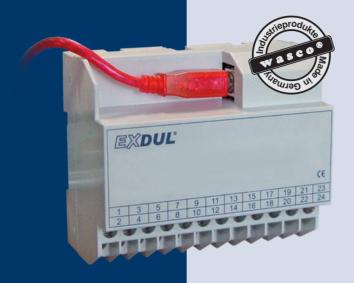


EXDUL-336S

USB Module with 10 Optocoupler Inputs, 8 Relay Outputs and Counter



10 optocoupler inputs
8 relay outputs
2 16-bit counters
USB 2.0 compatible

EXDUL-336S features ten digital inputs and eight digital outputs each of which is galvanically isolated. Electrical isolation at the inputs is made by top-quality optocouplers with integrated Schmitt trigger function. Electrical isolation at the outputs is made by special high power relays managing a switching current of 2 A. Two of the ten optocoupler inputs are programmable and usable as digital counters if required.

Connecting to a computer is made quickly and conveniently Plug & Play via a USB interface. The required power supply can be provided via USB port or by an external voltage source

The module has a 24-pin screw terminal for connection of the input optocouplers and output relays and external power supply. The compact chassis enables the module to be used as a portable device with a notebook. For mechanical engineering control applications it can also easily be attached to a DIN mounting rail.

© 2013 by Messcomp Datentechnik GmbH Phone: +49.8071.9187.0 Fax: +49.8071.9187.40 www.messcomp.com/info@messcomp.com

SPECIFICATIONS

Digital optocoupler inputs

10 input channels with galvanic isolation, common ground connection (cathodes shared)

2 of the channels programmable as counter inputs

Optocoupler with integrated Schmitt-Trigger function

Overvoltage protection diodes Input voltage range

high = 10 30 V low = 0 3 V

Input frequency max. 10 kHz

Digital relay outputs

8 channels galvanically isolated Relay contact A with one terminal connection each, relay contact B with shared termination

Contact: 1 NO contact

Contact current rating: max. 2 A

Contact voltage rating: max. 30 V AC / 30 V Contact power rating: max.60 VA / 60 W Mechanical lifetime: max. 20 * 10⁶ switching

cycles without load

Contact lifetime: 2 A, 30 VAC at NO contact, max. 10⁵ switching cycles

Switching frequency under load: max. 10/ min

Switching frequency without load: max. 1200/min

Switching time: typ. 5 ms Release time: typ. 2 ms Fall time NO contact:< 1 ms

Counters

2 programmable digital 16-bit counters (2 of the 10 input optocouplers are assigned) Counting frequency: max. 5 kHz

Power Supply

+5V via the PC's USB Port. It may be necessary to configure your operating system software to obtain appropriate power requirements

+10 V...+24 V via external power supply

USB interface

USB 2.0 compatible USB connection Plug-and-Play (hot pluggable)

Module connections

1 * 24pin screw terminal

1 * USB port type B

USB connecting cable

1 * USB plug type A

1 * USB plug type B

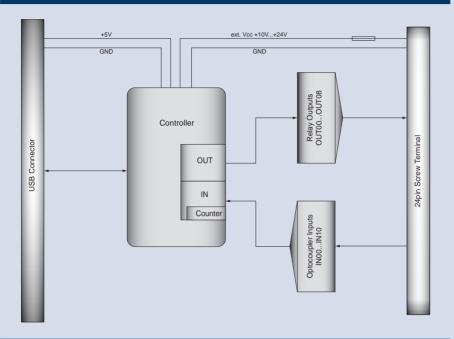
Product dimensions

105 mm x 89 mm x 59 mm (l x b x h)

Casing

Plastic casing with integrated snap-on technology for top-hat rail mounting to DIN EN. Suitable for control and engineering technology mounted to control and distribution boxes, surface mounting or mobile use on a desk.

BLOCK DIAGRAM



PIN ASSIGNMENT

Each single anode of the input optocouplers is individually led to the 24-pin screw terminal block CN1, the cathodes share one screw terminal. Contact B of the output relais also share one screw terminal, whereas each single contact A is fed to individual screw terminals of CN1. Screw terminals Vcc_EXT and GND_EXT are allocated for application of an external power supply of 10 ... 24 V.

Screw teminal CN1

••••			
OUT01A	2 🕕	Ø 1	OUT00A
OUT03A	4 🔵	⊘ 3	OUT02A
OUT05A	6 🔵	6 5	OUT04A
OUT07A	8 🔵	Ø 7	OUT06A
NC	10 🕕	Ø 9	OUT0007B
IN01+	12 🕢	1 1	IN00+ / Counter1
IN03+	14 🕢	Ø 13	IN02+
IN05+	16 🔵	() 15	IN04+ / Counter2
IN07+	18 🚫	Ø 17	IN06+
IN09+	20 🕢	Ø 19	IN08+
NC	22 🕕	21	IN0009-
GND_EXT	24 🕢	23	Vcc_EXT

ASSEMBLY AND APPLICATION OPTIONS



PROGRAMMING

Driver installation from enclosed CD. The accompanying CD provides sample programs for Microsoft Visual C++, Microsoft Visual Basic 2005 and Microsoft Visual

SCOPE OF DELIVERY USBModule EXDUL-336S

USB connection cable (Typ A-B) 3m long German Description (English on request) Programs for installation and programming examples

ORDER INFORMATION

EXDUL-336S EDP-No. A-385320 USB Optocoupler/Relay I/O Module

Suitable Accessories

EDP-No. A-3425

Power supply providing one output 24 V / 2,5 A, closed construction design, contact-protected screw terminals, overload protection by current



F4652-24-Set

EDP-No. A-351024

Industrial high-power relay combi-nation of two change-over contacts 250 V / 8 A and free-wheeling diode, snap-on technology for DIN EN top-hat mounting



For more detailed information about the here listed and other accessories we refer to the corresponding data sheets