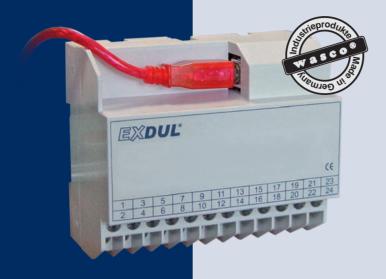


# **EXDUL-337S**

USB Module with 12 Optocoupler Inputs, 8 Relay Outputs and 6 Counters



12 optocoupler inputs8 relay outputs6 counters 32 Bit

The EXDUL-337S provides 12 digital inputs and eight digital outputs galvanically opto-isolated. The inputs are isolated via high-quality optocouplers protected with additional overvoltage protection diodes. Powerful relays, which can handle a switching current of 2A, ensure the isolation at the outputs.

Six of the 12 optocoupler inputs can also be programmed as hardware-supported 32-bit counter inputs if required.

The necessary operating voltage to the module is provided by either the USB port of the computer or via an external voltage source.

The module provides a 24-pin screw terminal block for connecting the external power supply as well as the input and output optocouplers.

The compact chassis enables the module to be used as a portable device with a notebook. For mechanical or control engineering it can also be easily wall mounted or attached to DIN mounting rail.

### **S**PECIFICATIONS

#### **Digital Optocoupler Inputs**

12 bipolar channels galvanically isolated Optocoupler contact A with one terminal connection each, Optocoupler contact B sharing one terminal

Overvoltage protection diodes Input voltage ranges

high = 10 .... 30 V low = 0 .... 3 V

#### **Digital Relay Outputs**

8 output channels galvanically isolated Relay contact A with one terminal connection each, relay contact B sharing one terminal

Contact: 1 NO contact

Contact current rating: max. 2 A per channel Contact voltage rating: max. 30 V AC / 30 V DC

Contact power rating: max. 60 VA / 60 W Mechanical lifetime: min. 10\*10<sup>6</sup> switching cycles without load

Contact lifetime: 2 A, 30 VAC at NO contact, ca 2\*10<sup>5</sup> switching cycles

Switching frequency under load: typ. 10/min Switching frequency without load: typ. 300/min

#### Counters

6 hardware supported programmable digital 32-bit counters (6 of the input optocouplers are assigned)

Counting frequency: max. 5 kHz

#### Operation voltage

+5 V (via USB port of the PC) +10 V...+30 V (via external power supply)

#### **USB** interface

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

#### **Connection Terminals**

1 \* 24-pin screw terminal block

1 \* USB port type B

#### USB connecting cable

1 \* USB plug type A

1 \* USB plug type B

#### **Product dimensions**

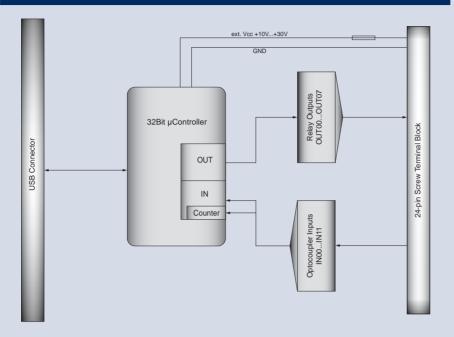
105 mm x 89 mm x 59 mm (l x b x h)

#### 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.

© 2020 by Messcomp Datentechnik GmbH Phone: +49.8071.9187.0 Fax: +49.8071.9187.40 www.messcomp.com/info@messcomp.com

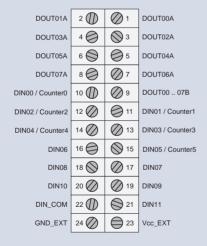
## **BLOCK DIAGRAM**



## PIN ASSIGNMENT

Terminals Vcc\_EXT und GND\_EXT are provided for an application of 10  $\dots$  30 V external voltage supply.

## Screw Terminal CN1



### **ASSEMBLY AND APPLICATION OPTIONS**







Top-hat Rail Mounting

Wall Mounting

Mobile Use on a Desk

#### **Programming**

Windows®:

Driver and program examples for Java, VB.NET, C++.NET, C#.NET, LabView Tutorial Linux®:

Driver and program examples for C, C++ and Java (see manual)

on enclosed CD or download at: www.messcomp.com, Section Support - Software

## Scope of Delivery USB Module EXDUL-337S

USB Module EXDUL-337S
USB connection cable (Typ A-B) 3m long
German Description (English on request)
Programs for installation and programming
examples

#### ORDER INFORMATION

**EXDUL-337S EDP-No. A-385420** USB Optocoupler/Relay I/O Module

#### Suitable Accessories

DR-60-24

EDP-No. A-3425

Switching power supply providing one output 24 V / 2,5 A, closed construction design, touch-protected screw terminals, overload protection by current limitation, Power-On-LED



F4652-24-Set

EDP-No. A-351024

Industrial power relay combination with two changeover contacts 250 V / 8 A and free-wheeling diode, snap-on technology for DIN EN top-hat rails



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

Product and company names mentioned may be trademarks of their respective owners