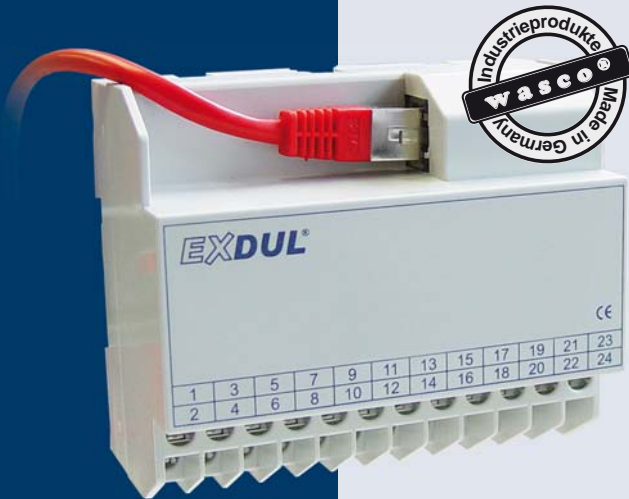


EXDUL-517S

Ethernet Module with 10 Optocoupler Inputs, 8 Optocoupler Outputs (Ground Switching) and Counter



10 optocoupler inputs

8 optocoupler outputs

1 counter 16-bit

10Base-T Ethernet

SPECIFICATIONS

EXDUL-517S provides 10 digital inputs and 8 digital outputs galvanically isolated by high-quality optocouplers and additional protection diodes. All input optocouplers have integrated schmitt trigger function. Special high power output optocouplers manage a maximum switching current of up to 150 mA. One of the ten input optocouplers is programmable and usable as a digital counter if required. The module can be connected easily and conveniently to a network or PC in a plug and play manner via an Ethernet interface. To power the device an external power supply is necessary. The connections for the external power supply as well as the connections for the input and output optocouplers are led to a 24-pin screw terminal block. The compact chassis enables the module to be used as a portable device with a notebook. For mechanical engineering control applications it also allows easy wall mounting or uncomplicated clipping to DIN-EN mounting rails.

Digital inputs by optocouplers

10 input channels, galvanically isolated
 common ground (cathodes shared)
 1 of the channels programmable as digital counter
 optocouplers with integrated Schmitt-Trigger function
 over voltage protection diodes
 input voltage ranges
 high = 10 30 V
 low = 0 3 V
 input frequency max. 10 kHz

Digital outputs by optocouplers

8 channels galvanically isolated
 common plus connection (collectors shared)
 high-capacity optocouplers
 reverse polarity protection diodes
 output current max. 150mA
 switching voltage max. 50 V

Counter

1 programmable 16-bit counter (1 of the 10 input optocouplers is assigned)
 counting frequency max. 5 kHz

Operating voltage

+10 V...+24 V
 (external voltage supply necessary)

Ethernet Port

10Base-T Ethernet Interface

Module circuit points

1 * 24-pin screw terminal strip
 1 * RJ45 jack

Network cable

RJ45 network cable Cat5 or above

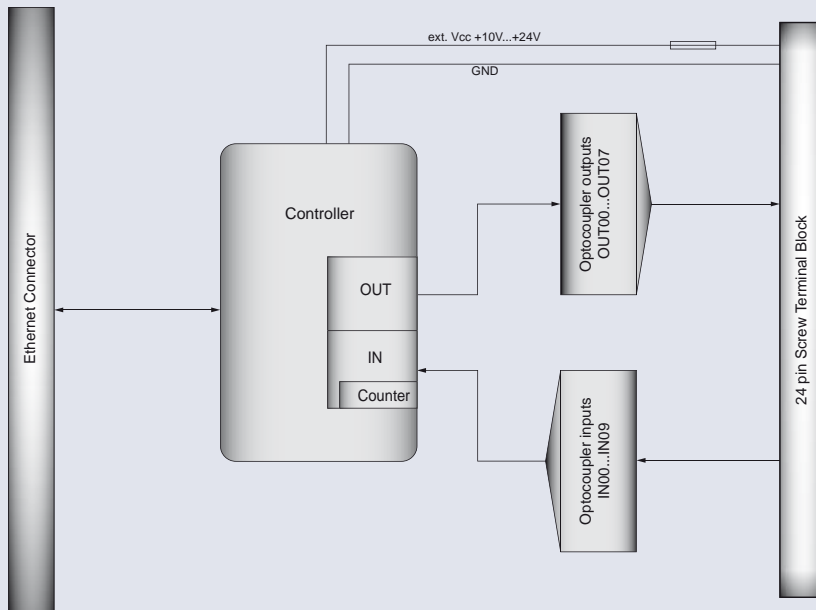
Dimensions

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

Casing

Plastic casing with integrated snap-on technology for DIN EN rail mounting
 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. The collector connections of the output optocouplers also share one screw terminal, whereas each single emitter connection 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 Terminal Block CN1

OUT01-	2	1	OUT00-
OUT03-	4	3	OUT02-
OUT05-	6	5	OUT04-
OUT07-	8	7	OUT06-
OUT00...07+	10	9	NC
IN01+	12	11	IN00+ / counter
IN03+	14	13	IN02+
IN05+	16	15	IN04+
IN07+	18	17	IN06+
IN09+	20	19	IN08+
NC	22	21	IN00...09-
GND	24	23	Vcc

ASSEMBLY AND APPLICATION OPTIONS



Top-hat Rail Mounting



Wall Mounting



Mobile Use on a Desk

PROGRAMMING

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

SCOPE OF DELIVERY

Ethernet Module EXDUL-517S
Cat5 Ethernet patch cable 1 m
German Description (English on request)
Programs for installation and programming examples

ORDER INFORMATION

EXDUL-517S EDP-No. A-374420
Ethernet Optocoupler I/O Module

SUITABLE ACCESSORIES

DR-60-24 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
limitation, Power-On-LED



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