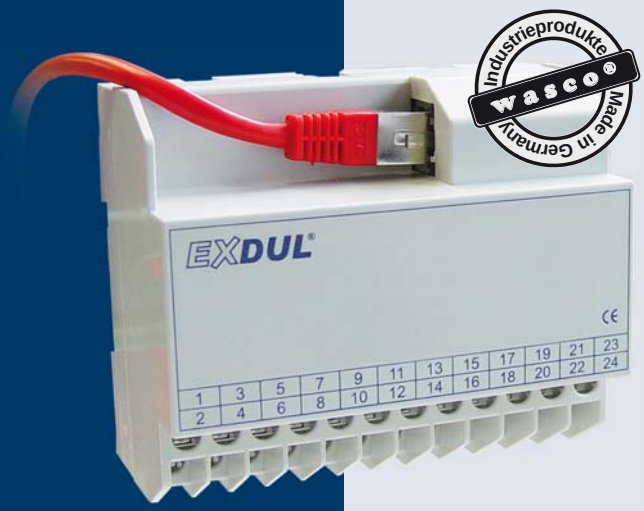
wasco®

EXDUL-516S

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



10 optocoupler inputs

8 optocoupler outputs

1 counter 16-bit

10 Base-T Ethernet

EXDUL-516S 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.

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SPECIFICATIONS

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 ground (emitter 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

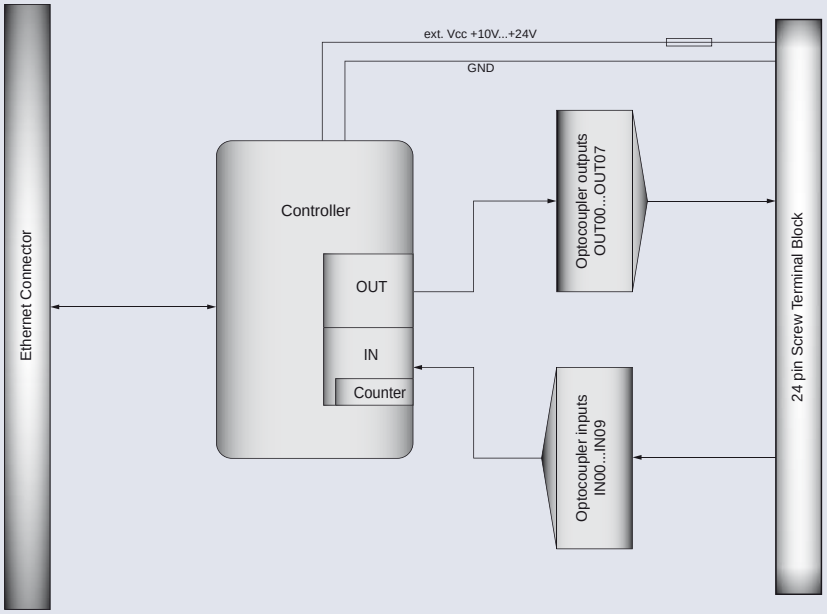
Module circuit points
1 * 24-pin screw terminal strip
1 * RJ45 jack

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



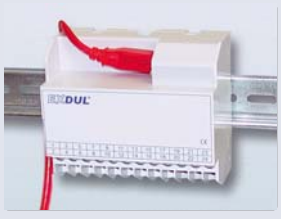
Pin Assignment

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 emitter connections of the output optocouplers also share one screw terminal, whereas each single collector 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+
NC	10	9	OUT00...07-
IN01+	12	11	IN00+ / Counter1
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-516S
Cat.5 Ethernet patch cable 1 m
German Description (English on request)
Programs for installation and programming examples

Order Information

EXDUL-516S **EDP-No. A-374320**
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 combination 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