

Product Datasheet - Technical Specifications



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Your contact

Technical and commercial sales, price information, quotations, demo/test equipment, consulting:

Tel.:	+49 - 81 41 - 52 71-0	
FAX:	+49 - 81 41 - 52 71-129	
E-Mail: sales@meilhaus.com		
Downloads:		

www.meilhaus.com/en/infos/download.htm

Meilhaus Electronic GmbHTel.Am Sonnenlicht 2Fax82239 Alling/GermanyE-Mat

 Tel.
 +49 - 81 41 - 52 71-0

 Fax
 +49 - 81 41 - 52 71-129

 E-Mail
 sales@meilhaus.com

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ED-038 Ethernet to Digital I/O Relay

3 Digital Input Lines and 3 Form A Relays

- · 3 Digital Inputs
- · 3 Form A Relay Outputs
- 1 Ethernet Port
- User friendly software interface Simple web based configuration, monitoring and control
- Software APIs for VB, C# and more





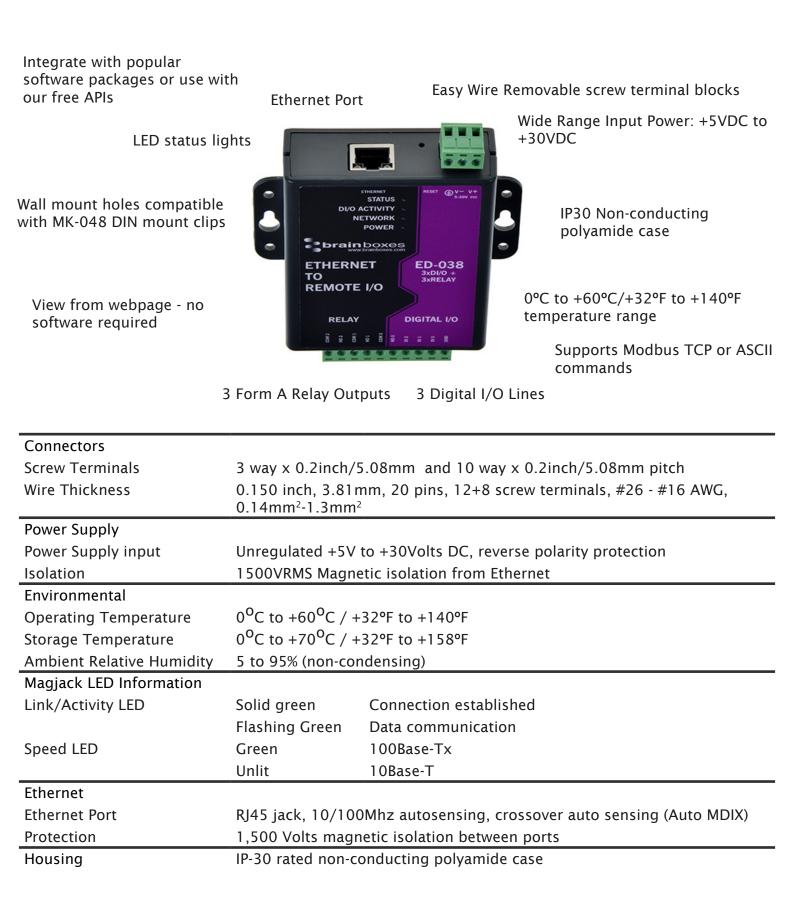




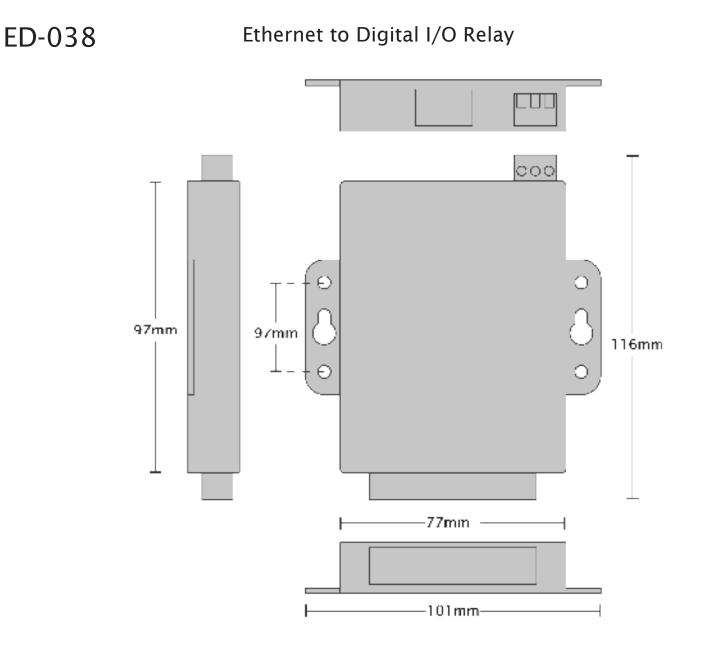


ED-038

Ethernet to Digital I/O Relay







Terminal Block Pin Outs

PIN	FUNCTION
1	COM 2
2	NO 2
3	COM 1
4	NO 1
5	COM 0
6	NO 0
7	DI 2
8	DI 1
9	DI 0
10	GND

Ethernet Port Pin Outs

PIN	FUNCTION
1	RD+ / TD+
2	RD- / TD-
3	TD+ / RD+
4	NC
5	NC
6	TD- / RD-
7	NC
8	NC

Power Terminal Pin Outs		
PIN	FUNCTION	
1	+V	
2	-V	
3	Functional Earth	

Lifetime Warranty and Support:

We can help with every aspect of your project, from getting you up and running to custom application.

ED-038 Ethernet to Digital I/O Relay

Digital Channels - 3 Inputs + 3 Relay Outputs		
Inputs		
NPN/PNP	Individually jumper selectable pull up for NPN, active low, type sensors and pull down for PNP, active high, type sensors	
Logic Level 0:	-30V to +1V	
Logic Level 1:	+2V to +30V	
Latched Inputs:	Triggered by user programmable positive or negative edges, stays true until acknowledged	
Counter Inputs:	User programmable- counts positive or negative transitions 0-65335	
Relay Outputs		
Relay Type	3 Form A (SPST: Single Pole Single Throw) - Normally Open When power is removed from the ED-038 the relay is Open	
Contact Rating	5 A @ 30 VDC, 5 A @ 250VAC, 5 A @ 110 VAC	
Inductive Load	2 A	
Resistive Load	5 A	
Relay On/Off Time	10ms (Max)	
Expected Life	100,000 times (Typical)	
Initial Contact Resistance	30 milli-ohms (Max)	
Pulse Output	0.3 Hz at rated load	

Serial Port - No Serial Port on this device, see ED-004 or ED-204

Power Supply	
Power Supply input	Unregulated +5V to +30Volts DC, reverse polarity protection
Isolation	1500VRMS Magnetic isolation from Ethernet
Power Consumption	2.5 Watts Max : 220 mAmps@+5VDC/36mAmps@+30VDC

Software

OS Compatibility	Brainboxes' software provides a TCP or Serial COM port interface. All software versions and updates available to download from our website.
Microsoft	Legacy COM port drivers for Microsoft OS up to latest Windows 10

Other

TCP and web browser interface for other OSs & Linux, e.g. Android, Raspberry Pi



Boost.IO Manager	Lets you find, install and upgrade devices
Industry Standard Packages	The COM port based driver means devices are compatible with popular packages such as: LabView, MATLAB, Agilent VEE. So you can continue to get value from your existing development and process control system.
Software Platforms	APIs and sample program code for: Microsoft .NET, C#, Visual Basic, C++, JavaScript, PHP, Java, Objective-C, Python and more



Modbus

Device works as a Modbus TCP server. Modbus TCP can be used on the input and output lines.

	Modbus access type	Supported Modbus function codes	Logical address	984 style address	IEC 61131 address
Read DI counter values	Holding register	3	0x0000	40001	%MW0
Clear DI counters	Coil	5, 15	0x0200	00513	%M512
Set/read digital outputs	Coil	1, 5, 15	0x0000	00001	%M0

ASCII

The ED device's webpage has an interactive ASCII console where any command can be entered and it is immediately executed showing the device's response.

\$01M	read the name of device address 01
!01ED-588	device 01 replies that its name is ED-588
\$01F	read firmware version number of device address 01
!012.54	firmware version of device 01 is 2.54

Full command tables can be found in the device manual









ED-038 Ethernet to Digital I/O Relay

Packaging Information		
Packaging	Installation CD including manual, Microsoft signed drivers & utilities, Quick Start Guide Device	
Packaged Weight	0.230 kg, 8.11 ounces	
Packaged Dims	160x135x49 mm, 6.3x5.3x1.9 inches	
GTIN Universal Code	837324009835	
Approvals		
Industry Approvals	Microsoft Certified Gold Partner, WEEE, RoHS, AEO (C-TPAT), CE	
Product Support		
Warranty	Lifetime - online registration required	
Support	Lifetime Web, Email and Phone Support from fully qualified, friendly staff who work in and alongside the Product Development Team	
Additional Information		
OEM option	Available for bulk buy OEM	
Made In	Manufactured in the UK by Brainboxes Winner 2005 European Electronics Industry Awards 'Manufacturer of the Year'	
Customisable	Brainboxes operate a 'Perfect Fit Custom Design' policy for volume users.	



PW-600 Power supply with connectors for UK, USA, EU and AUS mains socket. 'Tails' are suitable for connecting to screw terminal blocks.



MK-048 DIN Rail Mounting Kit Enables device to be clipped onto a DIN rail.



ED Range Remote I/O products available in a range of formats and specifications.