

BALOGH



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IDENTIFICATION SYSTEMS

Network Interface Card

BIET 170

REFERENCES : BIET170## _____

Each suffix # determines the type of tag the unit can exchange data with on the corresponding channel:
e.g. BIET170 **AA** is designed for **OMA** tags reading/writing on both channels.

DESCRIPTION _____

Slave interface handling 2 independent R/W channels.
Exchanges occur over an Ethernet link (baud rate: 10 /100 Mbauds with autobaud).

It supports several DIP-switch selectable messaging protocols:

- TCP/IP + speciality protocol which services simultaneous 8-Kbyte requests on both channels,
- MODBUS®/TCP which enables to read (resp. write) 125 (resp. 120) words per request (protocol certified by the MODBUS/TCP Conformance Test Laboratory on Nov. 9th 2003),
- EtherNet®/IP (Allen Bradley).

BIET parameterisation using:

- either the web browser of a networked PC,
- or the hyperterminal software utility of a PC connected to the BIET by an RS-232 serial link.

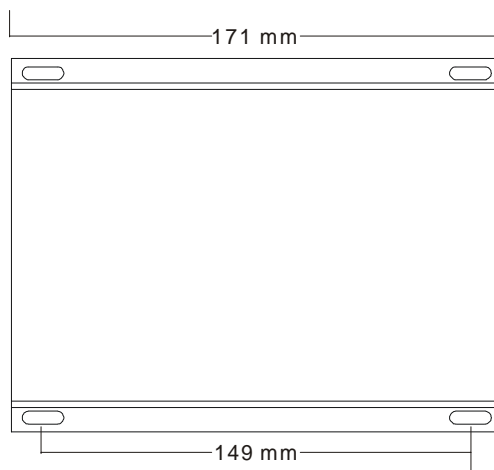
DATA FOR ASSEMBLY _____

Field mount enclosure.
Vertical mounting recommended,
connectors flange downwards.

view of the flange bearing the status leds:

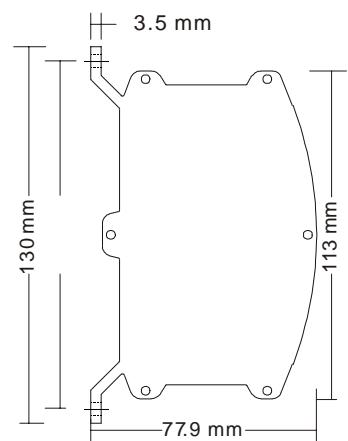


Footprint:



the enclosure is fixed
by 4 oblong holes
4.5 x 14.5 mm:

Cross-section:



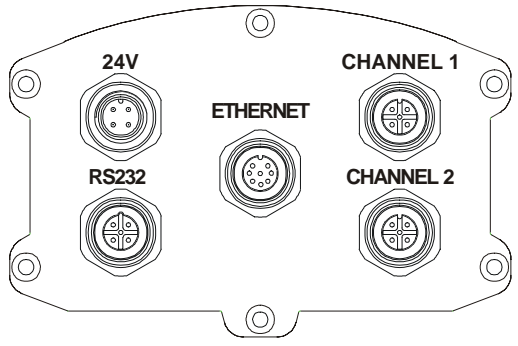
CHARACTERISTICS

Parameters		MIN	AVG	MAX	Unit
General	Ambient temperature	0		55	°C
	Protection rating	IP 65			-
	Casing	Aluminium, Rilsan			-
	Weight	1,200			g
Power	Supply voltage (ripple included)	21	24	29	V
	Protection against short circuits	yes			-
	Supply current (add that of RW heads) @ 24V	160			mA
Netw.	Bit rate	10		100	Mbauds
	Delay at power-up (parameter file downloading disabled)	22			s

Voltage	Pin n°
+ 24 V	1
nc	2, 3
0 V	4

Description	Pin n°
nc	1
RxD	2
TxD	3
0 V	4

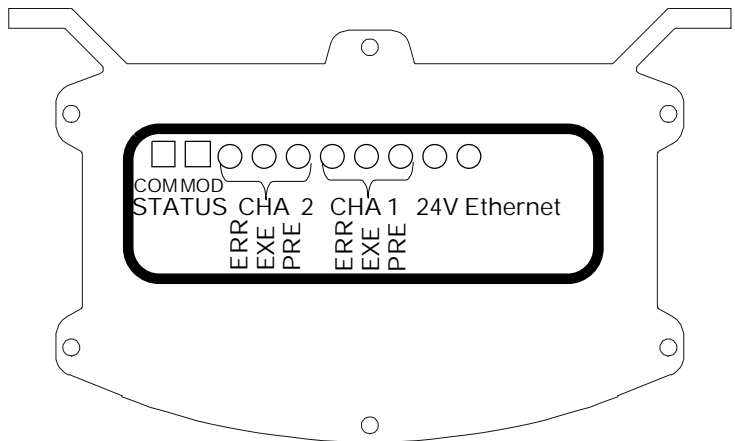
Pin number	1	2	3	4	5	6	7	8
Description	nc	nc	nc	TD-	RD+	TD+	nc	RD-



Pin n°	Description
1	Ucc
2	Output from head
3	Input into head
4	0 V
5	nc

Shield connection for cables connected to the sockets (all are M12 type, female except '24V'):
 Power supply: no shield. Serial link: optional shield.
 Network: the overall shield must be in contact over 360° to the metallic cable connector housing.
 R/W heads: refer to the head data sheet for cable requirements;

- cables with overall shield: the overall shield must compulsorily be in contact over 360° to the metallic cable connector housing.
- cables with overall shield + shielded pairs: the overall shield must compulsorily be in contact over 360° to the metallic cable connector housing, while the pair shields are connected to pin 5 (optional);
- cables with shielded pairs, without overall shield: the pair shields must be connected to the metallic cable connector housing.



The "24V" led indicates the power supply is on.
 Three leds monitor the activity of each channel: Error, Execution in progress, Presence.
 The "Ethernet" led indicates the connection to the network.
 The bicolour led "MOD" indicates the result of Power-On Self-Test and blinks at various overflows.
 The bicolour led "COM" echoes the RS-232 exchanges : Tx (red) / Rx (green).