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IDENTIFICATION SYSTEMS

Network Interface Card

BIDN 80

REFERENCES

Depending on the tags to be read or written to several firmwares can be implemented.
Generic reference: BIDN80##.
Each suffix # determines the firmware implemented for this channel: e.g. BIDN80**AA** is intended for OM**A** tag reading/writing on both channels.

DESCRIPTION

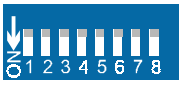
Slave interface for **DeviceNet** ® networks enabling to read / write data to/from Balogh tags when it is connected to a R/W head (transceiver); it handles up to **two independent transceiver channels** (both work simultaneously and may be different).

Communication occurs on a CAN link at a baud rate from 125 to 500 kbaud.

DATA FOR ASSEMBLY

The data byte number sent by the BIDN is software-configurable (using a special cable and a software for PC such as Hyper terminal; # of useful bytes per channel: 64 (Default), 32, 16 or 8.

The BIDN address is set by six switches located behind the indicator lights flange.
The two other switches enable to set the baud rate.



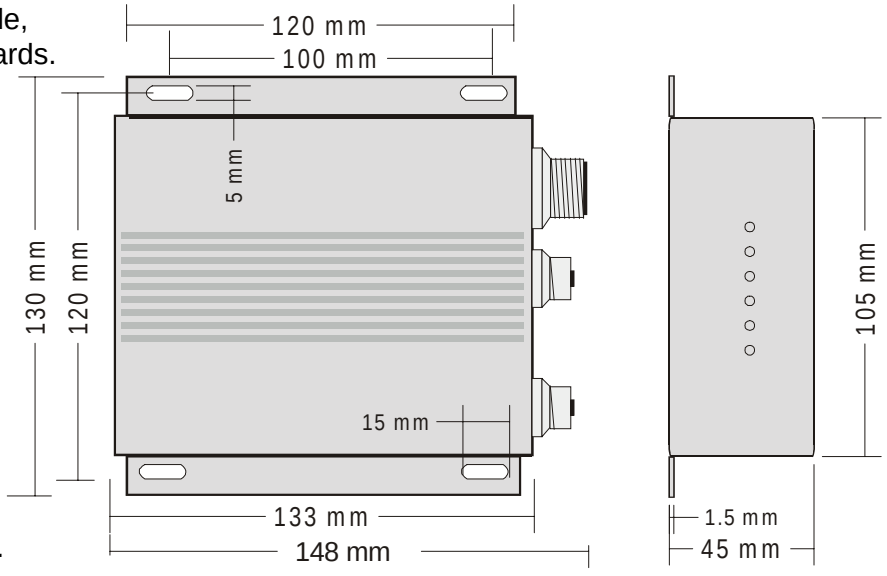
On = 1

DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	N° station
0	0	0	0	0	0	00
0	0	0	0	0	1	01
0	0	0	0	1	0	02
. . .	. . .	. . .	. . .	. . .	. . .	. . .
1	1	1	1	1	1	63

DIP7	DIP8	Baud rate
0	0	125 kbaud
0	1	250 kbaud
1	0	500 kbaud
1	1	125 kbaud

Vertical mounting preferable, connectors flange downwards.

Field mount enclosure.



Footprint: 120 x 130 mm.

CHARACTERISTICS

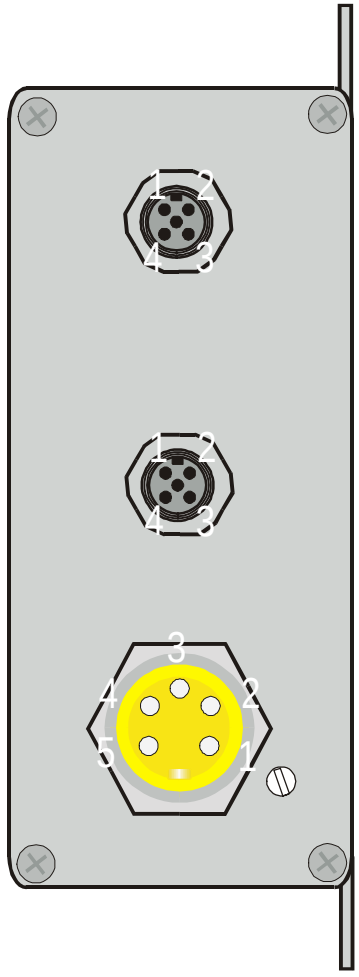
	Parameters		MIN	AVG	MAX	Units
General	Ambient temperature		0		55	°C
	Protection rating			IP 65		-
	Casing			metal		-
	Weight			510		g
Electr.	Supply voltage (ripple included)		21	24	29	V
	Protection against reverse polarity			yes		-
	Current consumption (TRs excluded)	@ 24 V			70	mA
Network	Trunk cable length	@ 125 kBaud			500	m
		@ 250 kBaud			200	
		@ 500 kBaud			100	
	Drop cable length				3	m
	Cumulated Drop cable length	@125 kBaud			156	m
		@ 250 kBaud			78	
		@ 500 kBaud			39	

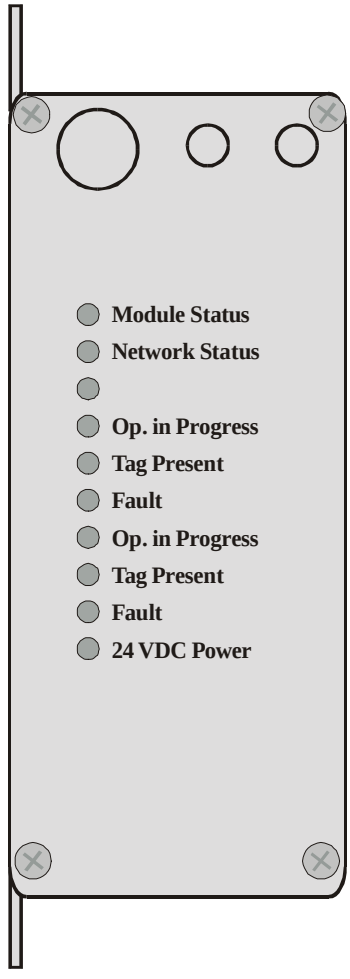
CONNECTIONS

For the detailed specifications, refer to the data sheet Connection accessories.

Transc.	Pin Nr
V or 1	1
S or 2	2
E or 3	3
O or 4	4
nc	5

network	assignment	wire colour
1	shield	bare
2	24 V	red
3	0 V	black
4	CAN H	white
5	CAN L	blue





INDICATOR LIGHTS

Note:
To meet the ECM requirements, provide shield recovery at 360° through the shell of the (metallic) connectors of the TR cables (use the cords with round-shielded connectors of the kit # 3 for ERO/ERA and # 4 for ERC/EIR).