



IDENTIFICATION SYSTEMS

REFERENCES

Generic references: BIDP170## for 2 channels.

Depending on the tag the card can exchange data with on the corresponding channel a specific firmware is implemented; it is defined by the suffix #, e.g. BIDP170AA is designed for OMA tags reading/writing on both channels.

GENERAL FEATURES

Authorized slave interface for **ProfiBus® DP-V0** (Ident-Number = 077FHEX).

It handles up to **two independent R/W channels** (both simultaneously read / write data from / to Balogh tags); the channels may differ from each other in tags type.

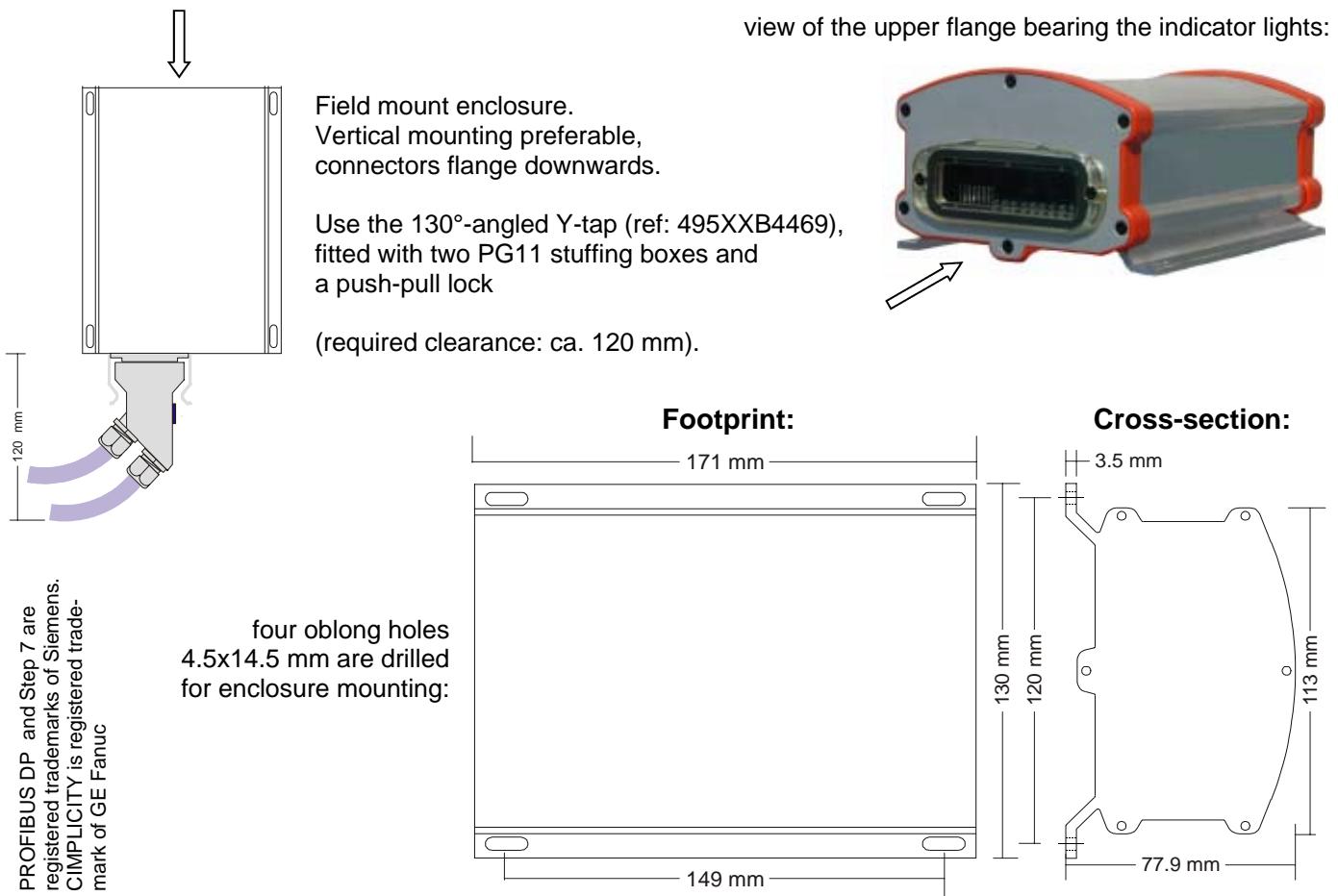
Communications occur over an RS-485 link (twisted shielded pair).

Each BIDP is assumed as a I/O module exchanging frames; their size may be configured: 8, 16, 32 bytes, then, with a 32-byte step, up to 192 bytes (default value: 32).

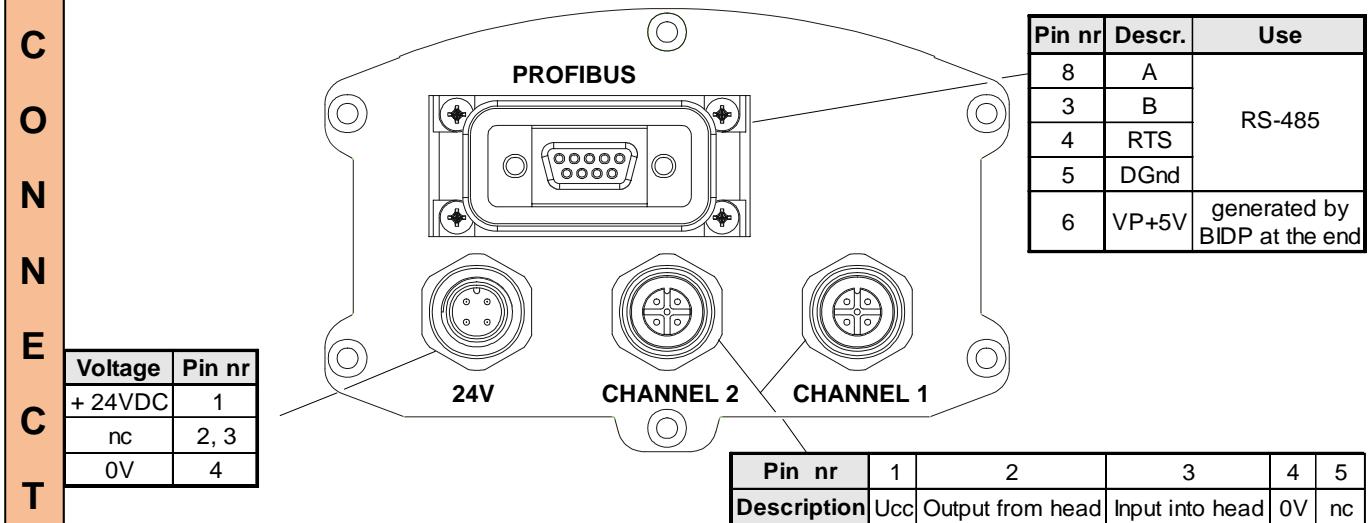
It features 15,000-byte data buffers and may communicate:

- in simplified (word-based) modes through user programming (addressing capacity: 64 Kbytes),
- in standard mode (addressing capacity: 16 Kbytes), if the BIDP is driven by a functional block (delivered on a CD):
 - ◆ either FS-S7E for Siemens Series 7 (type 3xx or 4xx) PLCs (Step 7 ® shell),
 - ◆ or FG-SD7 for the GE Fanuc CNC (using Cimplicity ® ME shell); one block may drive two BIDPs.

DATA FOR ASSEMBLY



CHARACTERISTICS	Parameters		MIN	Nominal	MAX	Units
	General	Ambient temperature	0	55	°C	
		Protection rating		IP 65		-
		Enclosure		Aluminium, PA12 (30%GF)		-
		Weight		1,200		g
	Electrical	Supply direct voltage (ripple included)	21	24	29	V
		Protection against polarity reversal		yes		-
		Current consumption (add that of R/W heads) @24VDC		120	mA	
	Network	Slave number	0	125	-	
		Baud rate (auto adaptable)	9.6	12,000	kbauds	



Connection: M12 sockets are keyed (A-coding); cordsets are described in the Accessories data sheet.

Power supply (male M12 socket): no shield.

Network (Sub-D): comply with the Profibus-DP cabling guidelines.

R/W heads (female M12 sockets): 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.

