



IDENTIFICATION SYSTEMS

REFERENCES

Generic references: BIDP170M## 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. BIDP170MAA is designed for OMA tags reading/writing on both channels.

GENERAL FEATURES

Authorized slave interface for **ProfiBus® DP-V1** (Ident-Number = 08E9HEX).

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).

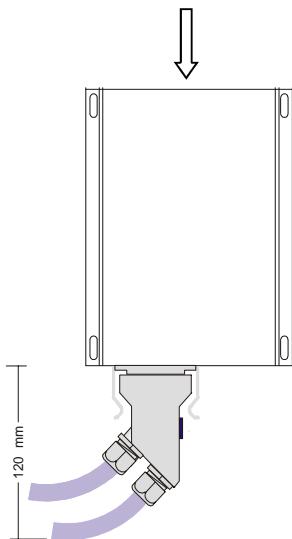
Each BIDP is assumed as a I/O module exchanging data with a class-1 master:

- in acyclic mode, it receives requests and retrieves / sends the tag data (up to 16 Kbytes per request),
- in cyclic mode, it transmits both channel statuses.

It is driven by the FS-S7M functional block for a Siemens Series-7 PLC type 3xx ou 4xx (Step 7 ® shell).

The functional block is delivered on a CD.

DATA FOR ASSEMBLY



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

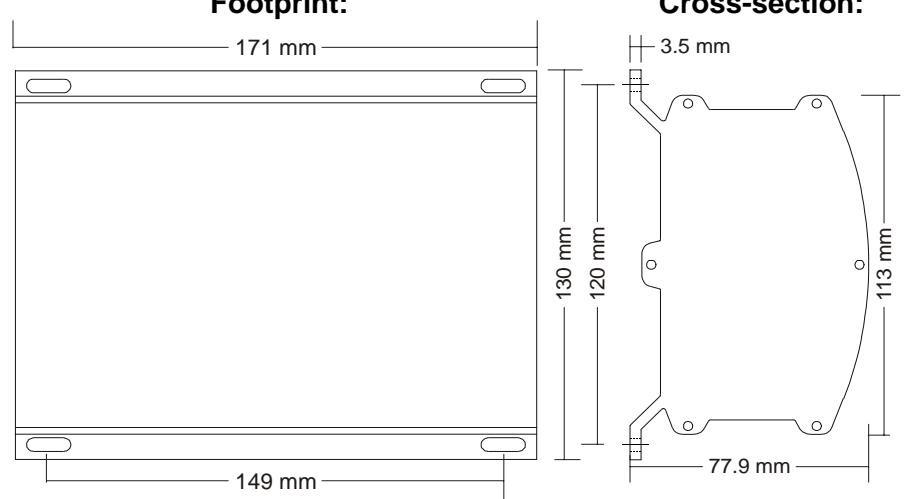
Use the 130°-angled Y-tap (ref: 495XXB4469),
fitted with two PG11 stuffing boxes and
a push-pull lock

(required clearance: ca. 120 mm).

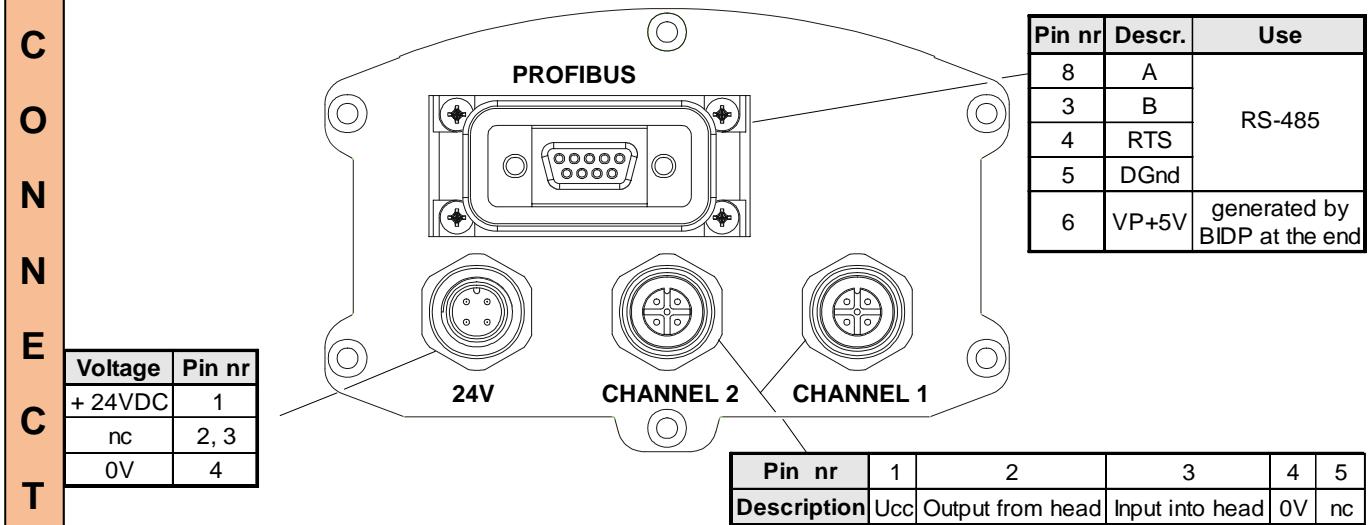
view of the upper flange bearing the indicator lights:



four oblong holes
4.5x14.5 mm are drilled
for enclosure mounting:



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.

