

# BALOGH



## BIDP-170/\*\* ProfiBus-DP® Control Interface

**RFID Control Interface**

**Industrial Product Range**



### Key For Tag Suffix

Suffix	Tag Series Description
<b>X</b>	OMX High Speed Industrial R/W Tag Series
<b>E</b>	GIE Industrial R/W Enhanced Speed Tag Series
<b>A</b>	OMA Industrial R/W Tag Series
<b>F</b>	OF Read-Only 7 Byte Industrial Tag Series
<b>L</b>	OLR Long Range 2 Byte Read-Only Industrial Tag
<b>P</b>	OP Light Industrial R/W Tag Series
<b>FC</b>	TAF High Speed R/W Light Industrial Tag Series
<b>IC</b>	TAI Light Industrial R/W Tag Series
<b>MC</b>	TAM High Speed R/W Tag Series

### Ordering Information

When assembling your part number, please include the corresponding tag suffix.

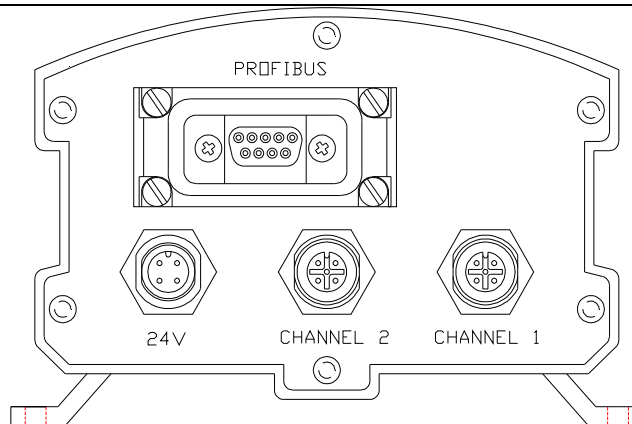
**Example:** BIDP-170/XX. - OMX High Speed Industrial R/W Tag Series. (Cables and Connectors Sold Separately)

### Characteristics

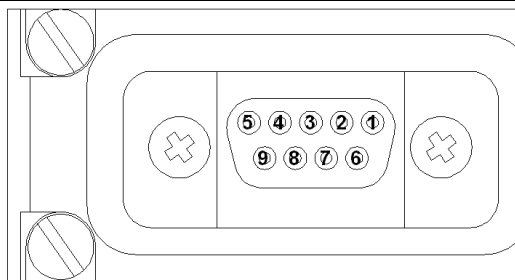
The BALOGH BIDP meets the needs required for today's network flexibility. It is compatible with existing network devices such as I/O, push button, motion controls, motor controls, motor starters, photo cells, limit switches, etc on a ProfiBus-DP network. Multi-Drop capability: Allows a connection scheme of multiple BIDP interface units on a ProfiBus-DP® Network. Each BIDP has dual channel capability Two Transceivers can be connected to each BIDP with each functioning independently and communicating simultaneously.

Unit features an IP-65 rated metallic enclosure and quick connect wiring, selectable data transfer rates up to 12 mega-baud and Bi-Color LED indication for: Bus Status, Channel Operation, TAG Presence, Transceiver fault, and 24 VDC Power. Node addressing is DIP switch selectable through a bank of 7 DIP switches located behind cover next to status LED indicators. ProfiBus-DP® allows Node selection from 0 to 125.

## Installation Information/Cable Pin Outs

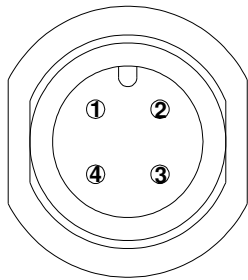


**COLOR CODE REFERS TO ONLY BALOGH CABLING**



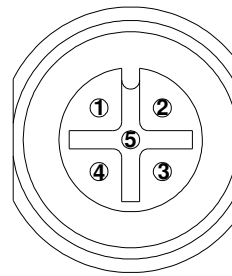
- 1 - UNUSED
- 2 - UNUSED
- 3 - B
- 4 - RTS
- 5 - SIGNAL GROUND
- 6 - VP +5V
- 7 - UNUSED
- 8 - A
- 9 - UNUSED

**Profibus®**



- 1 - +24VDC POWER (BROWN-V)
- 2 - NOT USED
- 3 - NOT USED
- 4 - 0VDC (BLACK-O)

**Power: 24 VDC**



- 1 - +24VDC POWER (BROWN-V)
- 2 - INPUT (WHITE-S)
- 3 - OUTPUT (BLUE-E)
- 4 - 0VDC (BLACK-O)
- 5 - SHIELD

**Transceiver Channel 1&2**

## Cabling And Accessories (SOLD SEPERATELY)

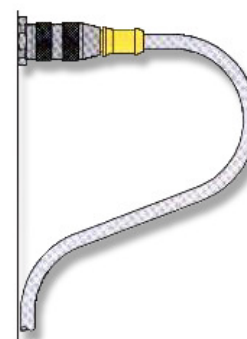
Power Cable - SEF/ST/\*\*  
Standard Cable Lengths are 2, 5m, 25, 50, 75, 100ft

Network Connector – DP170 – Profi – Con

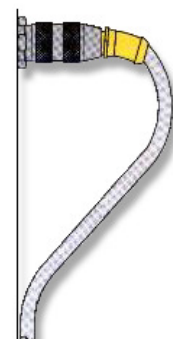
Transceiver Cable – MF/EXT/\*\* (LENGTHS ARE IN METERS)  
Standard Cable Lengths are 2, 5, 10, 15, 20, 25, 30, 35m

\*\* Indicates Cable Length Please Contact Balogh for other cable lengths.

**Only Hand Tighten Cables  
Correct**



**Incorrect**



**Bend radius 3 x cable diameter**

# Technical Information

- 2 Transceiver Channels
- 1 ProfiBus® Connection
- Operating Temperature 0° to 55° C
- Weight - 1200 Grams
- Requires Regulated 24 VDC (± 1%)
- Consumes 120 mA of power (without transceivers) 350 mA (w/Transcievers)

BIDP Dip Switches								
LSB		Node Address						MSB
1	2	3	4	5	6	7	8	
OFF	OFF	OFF	OFF	OFF	OFF	OFF	N/A	00
ON	OFF	ON	ON	ON	ON	ON	N/A	125

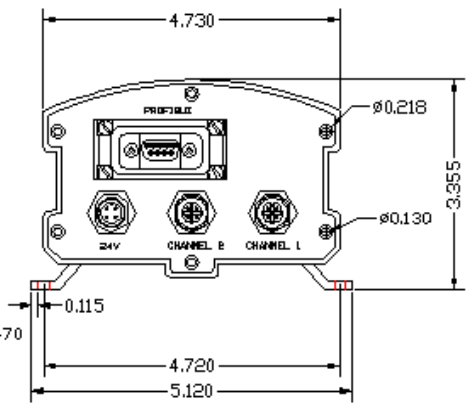
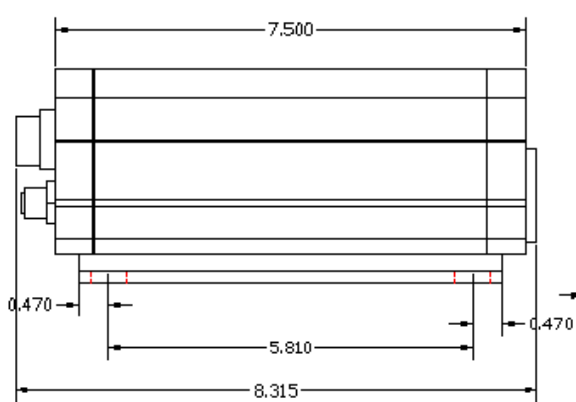
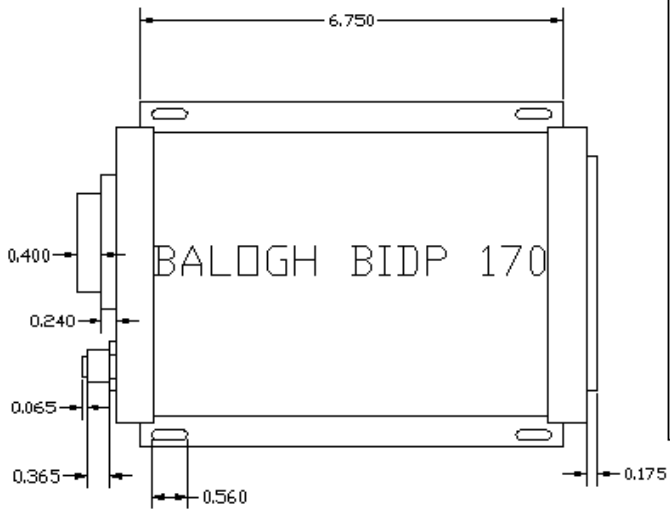
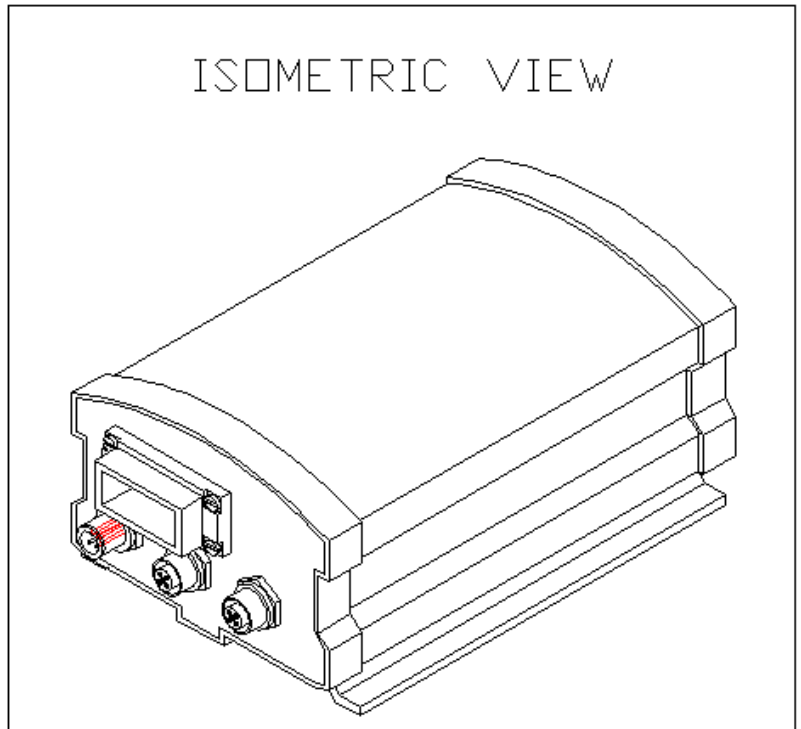
LSB		MODE						MSB
N/A	N/A	N/A	N/A	N/A	N/A	N/A	ON	RECORDED
N/A	N/A	N/A	N/A	N/A	N/A	N/A	OFF	DIRECT

**Status LED'S**

- 1 - 24 VDC
- 2 - Channel 2 Error
- 3 - Channel 2 Tag Presents
- 4 - Channel 2 Execution
- 5 - Channel 1 Error
- 6 - Channel 1 Tag Presents
- 7 - Channel 1 Execution
- 8 - Status DP
- 9 - Unused

Dip Switches/Configuration Port Located Behind LED Cover

# Dimensional Drawing



Housing for  
300W 14U/15U/16U  
Scale: 1:1