

# BALOGH



WWW.BALOGHRFID.COM

## BICN/\*\* ControlNet® Control Interface

**RFID Control Interface**

**Industrial Product Range**



### Key For Tag Suffix

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

### Ordering Information

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

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

### Characteristics

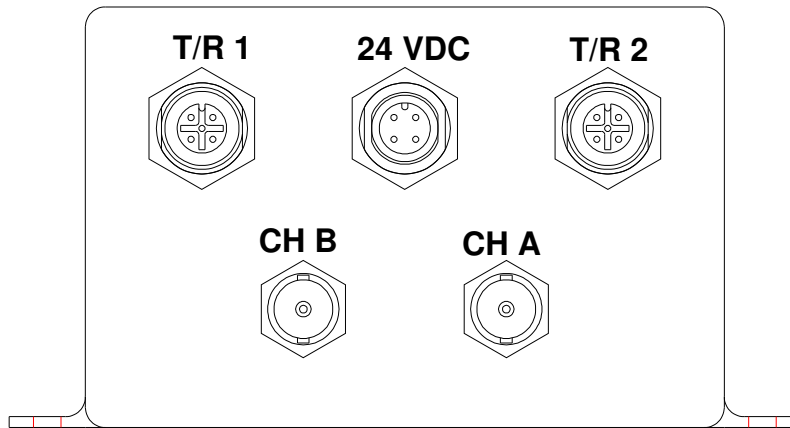
The BICN is compatible with existing network devices such as I/O, push button, motion controls, motor starters, photo cells, limit switches, etc.

- Multi-Drop capability: Allows a connection scheme of multiple BICN interface units on a ControlNet® network. Each BICN has dual channel capability. Two Transceivers can be connected to each BICN. Each functions independently and simultaneously.
- Small footprint provides ease of mounting (191mm x 130mm x 69mm). With an IP-12 rated metallic enclosure and quick connect wiring, it provides field mounting, durability, and reduces wiring costs.
- Node Addressing from 0-99.

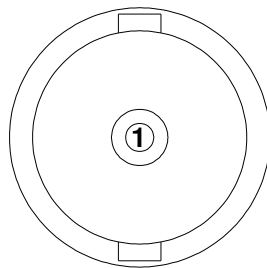
### Features

- Automatic Self Test on Power up
- Status LED's
- Small Footprint
- Simple Command Set

## Installation Information/Cable Pin Outs

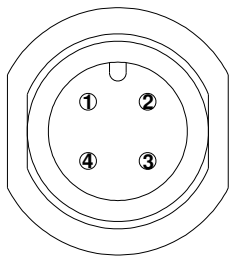


COLOR CODE REFERS TO ONLY BALOGH CABLING



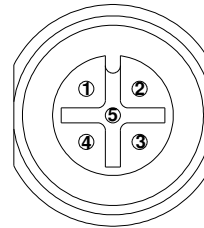
1 - ControlNet CONN.

### CHANNEL A & B ControlNet® BNC CONNECTOR



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

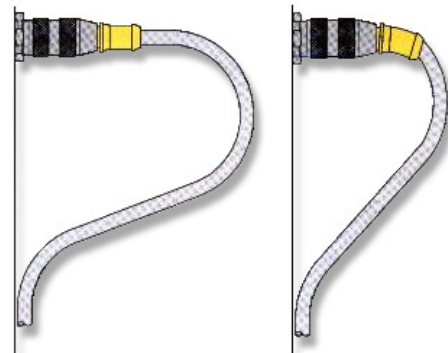
Network Cable – CONTACT A ControlNet® CABLE PROVIDER

Transceiver Cable – MF/EXT/\*\* (LENGTHS ARE IN METERS)

Standard Cable Lengths are 2, 5, 10, 15, 20, 25, 30, 35

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

Only Hand Tighten Cables  
Correct Incorrect



Bend radius 3 x cable diameter

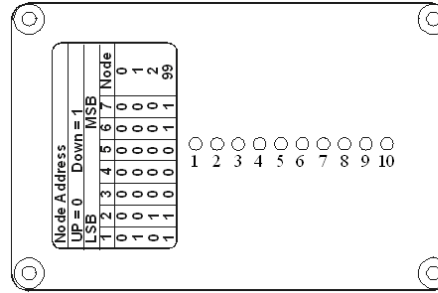
# Technical Information

- 2 Transceiver Channels
- 2 ControlNet® Connections
- Ambient Temperature 0° to 70° C
- Weight - 815 Grams
- 24 VDC (± 1%)
- Consumes 150 mA of current (without transceivers) 350 mA (w/Transceivers)

## BIDN DIP SWITCHES NODE ADDRESSES

| 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |           |
|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| OFF | OFF | OFF | OFF | OFF | OFF | OFF | N/A | <b>00</b> |
| ON  | ON  | OFF | OFF | OFF | ON  | ON  | N/A | <b>99</b> |

## Status LED'S



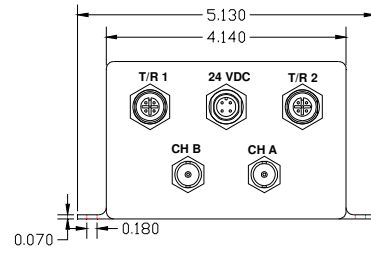
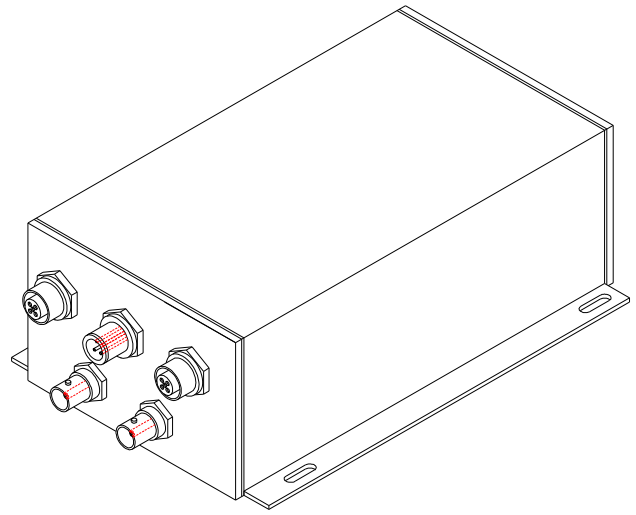
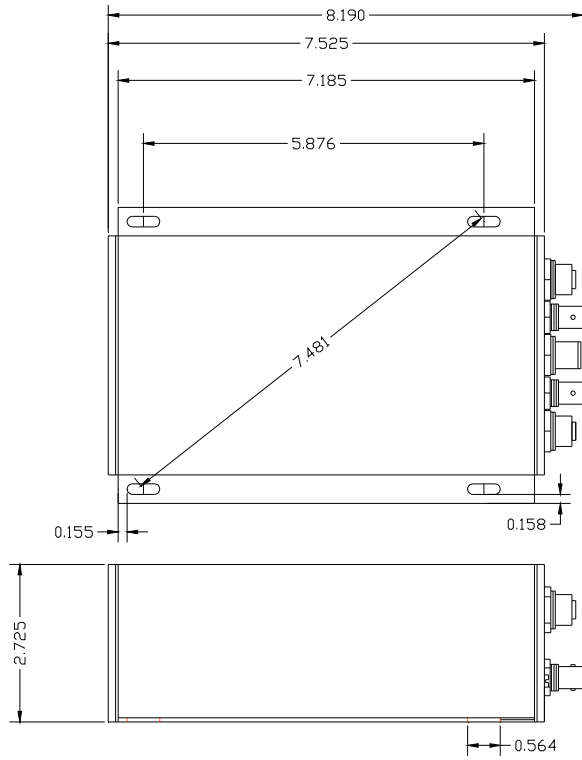
- 1 - CHA STATUS
- 2 - CHB STATUS
- 3 - 24 VDC POWER
- 4 - CH2 FAULT
- 5 - CH2 OP IN PROGRESS
- 6 - CH2 TAG PRESENT
- 7 - CH1 FAULT
- 8 - CH1 OP IN PROGRESS
- 9 - CH1 TAG PRESENT
- 10 - RS-232 RX/TX

Dip Switches/Configuration Port Located Behind LED Cover

# FAQ

# Dimensional Drawing

## ISOMETRIC VIEW



Housing For: BICN (CONTROL Net)  
Date: 04/24/06  
Scale: 1:1