

TURCK
works

Industrial
Automation

**BL COMPACT:
FLEXIBLE
REMOTE I/O
STATIONS**

*DeviceNet™
PROFIBUS®-DP
CANopen*



....Sense It!....Connect It!....Bus It!....Solve It!

www.turck.us

Sold by AA Electric 1-800-237-8274 • Lakeland, FL • Lawrenceville, GA • East Rutherford, NJ
Web : www.A-Aelectric.com Email: njsales@a-aelectric.com

BL COMPACT

CONCEPT

I/O systems installed between the control cabinet and in close proximity to sensors and actuators have become increasingly more rugged, efficient and user friendly. TURCK is supporting this trend with its new **BL compact** flexible I/O stations for analog and digital signals rated up to IP 69K.

BL compact combines the variety of I/O offered in our **BL67** remote I/O system with the manufacturing technologies provided in our **AIM** (Advanced I/O Module).

The result is a rugged distributed I/O station capable of providing a wide range of I/O (PNP/NPN input, discrete output, analog input, analog output, RFID, counter, etc.) on DeviceNet™, PROFIBUS® and CANopen.

**Flexible Remote I/O
(BL67)**



**Rugged I/O Module
(AIM)**



**BL
compact**



The most flexible remote I/O station available!

FLEXIBLE REMOTE I/O

FEATURES

TURCK's new *BL compact* line brings all of your I/O to the plant floor through a rugged, compact device. This product line provides a vast signal variety in packages rated up to IP 69K, including analog, digital, RTD, thermocouple, serial, or a mixture of signal types, all inside one robust node on your network.

BL compact provides an inexpensive means to add a variety of different I/O in an environmentally hardened package that allows direct mounting onto a machine without the need for a separate enclosure.

BL compact's design features and breadth of I/O combinations make it suitable for many applications, including material handling, assembly and packaging in a wide variety of industries, including:

- Automotive
- Petrochemical
- Food and beverage
- Semiconductor

DEVICENET, PROFIBUS & CANOPEN



**ANALOG, SSI, PT, RS232, RS485, RFID, RELAY
PNP/NPN DIGITAL, THERMOCOUPLE, COUNTER, SERIAL,**

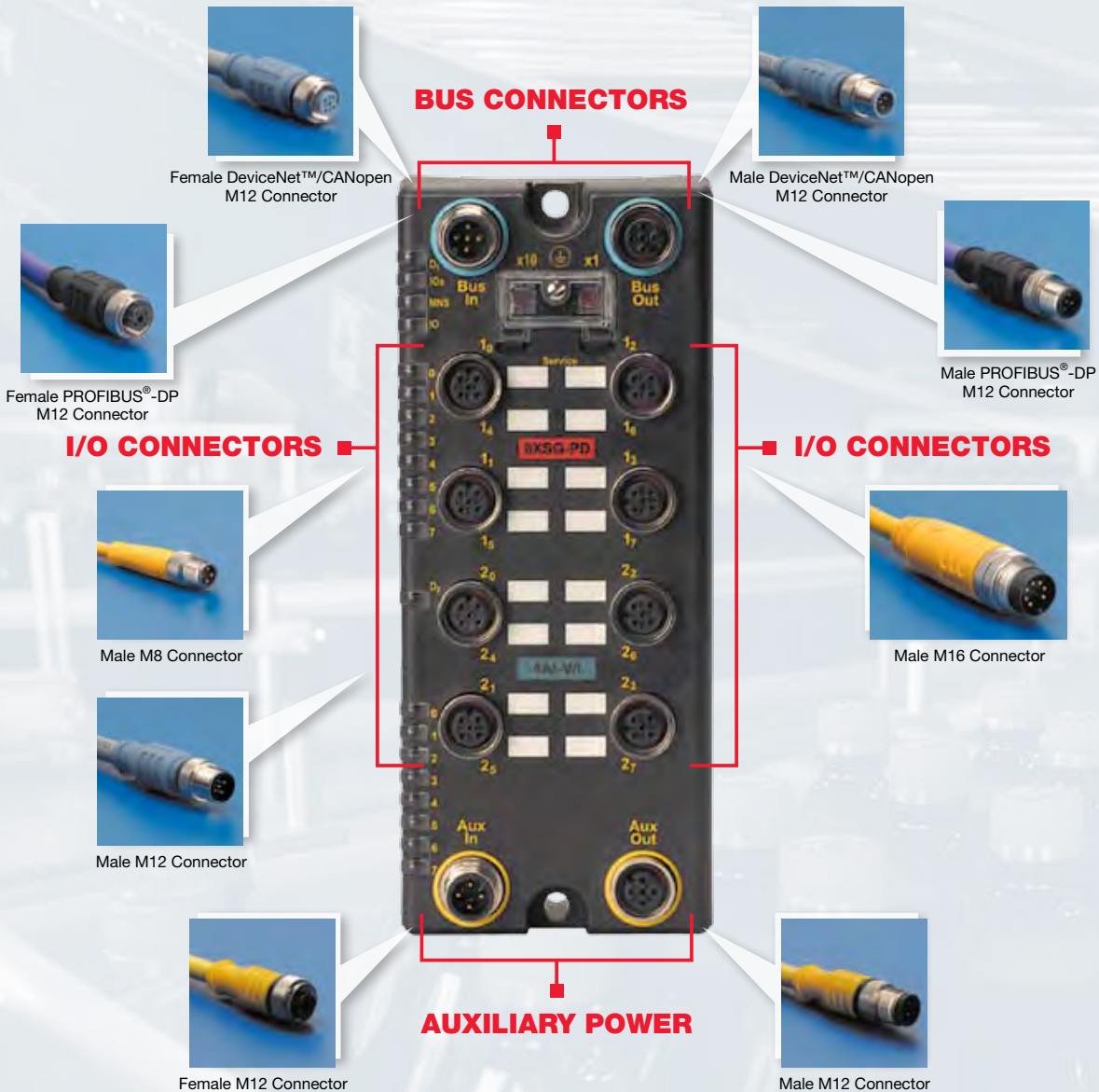
I/O STATIONS

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OPTIONS

BL compact offers I/O with M8 *picofast*®, M12 *euromast*® or M16 *multifast*® connectors that allow for easy installation into any application, existing or new. With TURCK's line of network, sensor and power cables, **BL compact** is capable of meeting the most demanding application requirements.



BLCDN-16M8LT-8XSG-PD-4AI-VI
Featured item above combines analog and digital I/O

Combining analog & digital I/O in a single unit!

FLEXIBLE REMOTE I/O STATIONS

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BL Compact

Bus Type

DN = DeviceNet™
DP = PROFIBUS®-DP
CO = CANopen†

Number of I/O Ports

2 = 2 ports
4 = 4 ports
6 = 6 ports
8 = 8 ports
16 = 16 ports (only available with M8)

Type of Connectors

M8 = *picofast*® (8 mm)
M12 = *eurofast*® (12 mm)
M16 = *versafast*® (16 mm)

Housing Style

S = Small housing
M = Medium housing
L = Large housing

* Not all combinations are available. Consult factory for more details.

** Only available for PROFIBUS®-DP

† Available 1st Qtr 2009

BLC DN - 8 M12 L T - 8DI-P - 4AI-VI

I/O Type Position #2*

4DI-P	4DIDO-PD	2AI-I
4DI-N	8DO-0.5A-P	2AI-V
4DI-PD	8DO-0.5A-N	2AO-I
8DI-P	16DO-	2AO-V
8DI-N	0.1A-P	2AI-PT
8DI-PD	8DO-R-NO	2AI-TC
8XSG-PD	CVI	1RS232
4DO-0.5A-P	2RFID-S	1RS485-422
4DO-2A-P	2RFID-A**	1SSI
4DO-2A-N	4AI-VI	1CNT-ENC†

I/O Type Position #1*

4DI-P	4DIDO-PD	2AI-V
4DI-N	8DO-0.5A-P	2AO-I
4DI-PD	8DO-0.5A-N	2AO-V
8DI-P	16DO-0.1A-P	2AI-PT
8DI-N	8DO-R-NO	2AI-TC
8DI-PD	CVI	1RS232
8XSG-PD	2RFID-S	1RS485-422
4DO-0.5A-P	2RFID-A**	1SSI
4DO-2A-P	4AI-VI	1CNT-ENC†
4DO-2A-N	2AI-I	

Auxiliary Power Connector

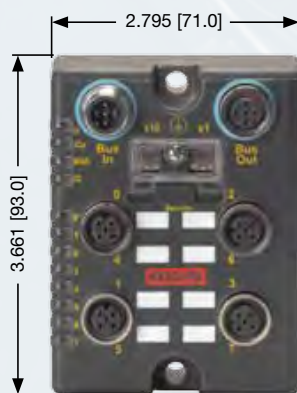
T = Auxiliary power connector present
(Blank) = No auxiliary power connector

I/O Type Descriptions

DI-P(D) = Digital Input-PNP (Diag.)
DI-N = Digital Input-NPN
DO-P = Digital Output-PNP
DO-N = Digital Output-NPN
XSG-P(D) = Configurable I/O-PNP (Diag.)
AI-I = Analog Input (Current)
AI-V = Analog Input (Voltage)
AI-TC = Analog Input (Thermocouple)
CVI = CANopen Interface Module
AO-I = Analog Output (Current)

AO-V = Analog Output (Voltage)
AI-PT = Analog Input (Platinum Thermocouple)
SSI = Synchronous Serial Interface
RS232 = Single Point Serial
RS485-422 = Multi-point Serial
R-NO = Relay (Normally Open)
RFID = Radio Frequency Identification
CNT-ENC = Counter and Encoder

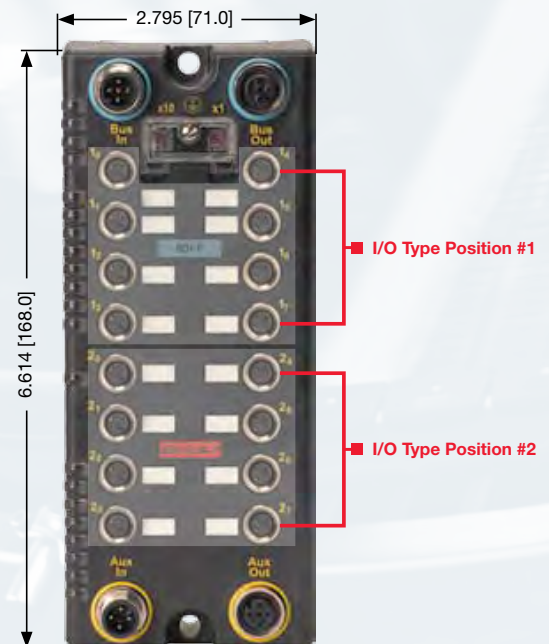
All parts have a depth of 1.260 [32.0]



BLCDN-4M12S-8XSG-PD



BLCDP-2M12MT-2RFID-S



BLCDN-16M8LT-8DI-P-8DO-0.5A-P



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