

TURCK

DISTRIBUTED I/O



SALES GUIDE

INTRODUCTION

The TURCK Distributed I/O Sales Guide endeavors to provide a high level overview of TURCK's Distributed I/O, RFID and network accessories & wiring products. You will find thousands of products to suit our customers' needs including on-machine, in-cabinet, modular and block I/O offerings. In an effort to make this guide easy to use some of TURCK's mature products have been omitted for brevity. Additionally, due to an ever changing market and TURCK's commitment to provide the most technologically advanced solutions for our customers it is possible that new products may exist that have not been incorporated into this printing. So please, if you do not find what you are looking for, consult one of our many other helpful resources, including our distributors, representatives, public website (www.turck.us), or our Application Support Hotline (1-800-544-7769).

As mentioned, this guide is meant to provide a high level overview of TURCK's Distributed I/O products, giving our customers a solid foundation from which to build on. A review of the table of contents will direct you to the first level of product grouping (i.e. In-Cabinet Modular I/O, On-Machine Block I/O, RFID, etc.). From there each section begins with a brief overview of the product grouping complete with part number keys. Within the sections you will find part selection tables complete with high level product specifications, housing overview and part numbers. Given the dynamic nature of our Distributed I/O product line, individual specifications can change faster than a print guide, therefore the latest detailed product specifications and system design constraints are reserved for information contained on our public website, www.turck.us.

TURCK provides a complete line of distributed I/O products for every fieldbus protocol including modular and block I/O systems, in-cabinet and on-machine I/O, decentralized intelligence with programmable systems conforming to IEC 61131, or innovative technologies, like RFID.

TURCK's distributed I/O products provide a variety of configurations to suit individual application needs. All platforms provide the ability to reduce time and costs during a project's planning, installation, commissioning, and operation phases.

TURCK's modular I/O systems, such as the **BL20** and **BL67**, provide a high degree of flexibility to varying types of applications. **BL20** terminal-wired, in-cabinet I/O systems include flexible gateway options in a variety of fieldbus protocols, decentralized control/programmability via CoDeSys, an IEC 61131-3 programming software and the ability to integrate motor starters. **BL67** combines all of the flexibility of an in-the-cabinet I/O system with modularity, ruggedness, and connectorization. Both **BL** families support TURCK's **BL ident**® RFID system.

TURCK's block I/O solutions include the **BL compact** and rugged **Advanced I/O module (AIM)** stations. These distributed I/O stations are capable of providing a wide variety of I/O signals, such as digital/discrete, analog, temperature, counter, RS485, RS232, and SSI inputs, as well as RFID capabilities, in a wide range of network protocols.



INNOVATIVE

MANUFACTURING CAPABILITIES

The array of applications where TURCK products are used is as extensive as the markets where they are applied.

DISTRIBUTED CONTROL

TURCK products can be programmed with CoDeSys software to create independent distributed control architectures using gateways with integrated subnet capabilities.

ETHERNET

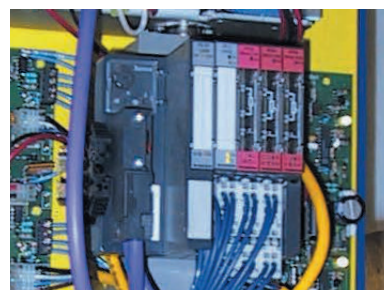
TURCK's products offer Ethernet solutions where I/O connects directly or indirectly to Ethernet. Indirect Ethernet gives you the ability to expand the amount of I/O per station with subnet capabilities. TURCK's subnet is self-configuring and offers a seamless transition to the Ethernet layer because the I/O process data is presented as standard Ethernet I/O. TURCK also offers a variety of Ethernet topology options including line topology made possible by Ethernet switches built into our Ethernet products. TURCK also offers innovative solutions that conform to the Common Industrial Protocol (CIP) standards for Quick-Connect.

RFID - BL ident

RFID solutions for ISO 15693 – HF 13.56 Mhz and EPC Global Gen2 900 Mhz. We have block and modular I/O solutions available for IP20, IP67 and IP68/69K. **BL ident** is available for all of the popular networks including Ethernet, PROFIBUS®, DeviceNet™ and CANopen. We offer standalone control with programmable gateways and the ability to read or write multiple RFID channels available in a single solution. We also offer the ability to integrate RFID with other types of inputs and outputs.

HARSH ENVIRONMENTS

TURCK products have some of the highest tolerances to environmental extremes on the market. Block I/O products are rated from -40°C to 70°C and are protected up to IP69K. These parts are able to withstand the spraying, cleaning and humid or moist environments often found in food and beverage applications.





PRODUCT	PAGE
Part number keys	E3
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Analog/Advanced I/O	E17

ON-MACHINE BLOCK I/O

On-Machine Block I/O Part Number Key

BLC

EN

-

8

M12

L

T

Flexible Block I/O Station

Network
DN = DeviceNet™
DP = PROFIBUS®-DP
CO = CANopen
EN-IP = EtherNet/IP™
EN = Multiprotocol (EtherNet/IP™, Modbus® TCP, PROFINET®)

Number of IO Ports
1 = 1 port
2 = 2 ports
3 = 3 ports
4 = 4 ports
5 = 5 ports
6 = 6 ports
8 = 8 ports
16 = 16 ports (only with M8 connectors)

Type of I/O Connectors
M8 = picofast ® M8x1
M12 = eurofast ® M12x1

Connector Material/Modifie
Blank = Nickel Plated Brass
V = Stainless Steel
W = Reverse Keyed, Nickel Plated Brass

Housing Style
S = Small Housing - One I/O slice, no Aux. Power
M = Medium Housing - One I/O slice
L = Large Housing - Two I/O slices

Auxiliary Power Connector
(blank) = No Aux Power Connector
T = Aux Power Present - Built in Tee

4AI-VI

-

8DI-P

I/O Type Position #2
4DI-P
4DI-PD
8DI-P
8DI-N
8DI-PD
8XSG-P
8XSG-PD
4DO-0.5A-P
4DO-2A-P
4DO-2A-N
8DO-0.5A-P
8DO-0.5A-N
8DO-R-NO**
2RFID-S
2RFID-A (PROFIBUS-DP only)

I/O Type Position #1
4DI-P
4DI-PD
8DI-P
8DI-N
8DI-PD
8XSG-P
8XSG-PD
4DO-0.5A-P
4DO-2A-P
4DO-2A-N
8DO-0.5A-P
8DO-0.5A-N
8DO-R-NO*
2RFID-S
2RFID-A (PROFIBUS® DP only)

2AI-I
2AI-V
2AI-PT
2AI-TC
4AI-VI
4AI-TC
2AO-I
2AO-V
4AO-V
2AI2AO-VI
4AI4AO-VI

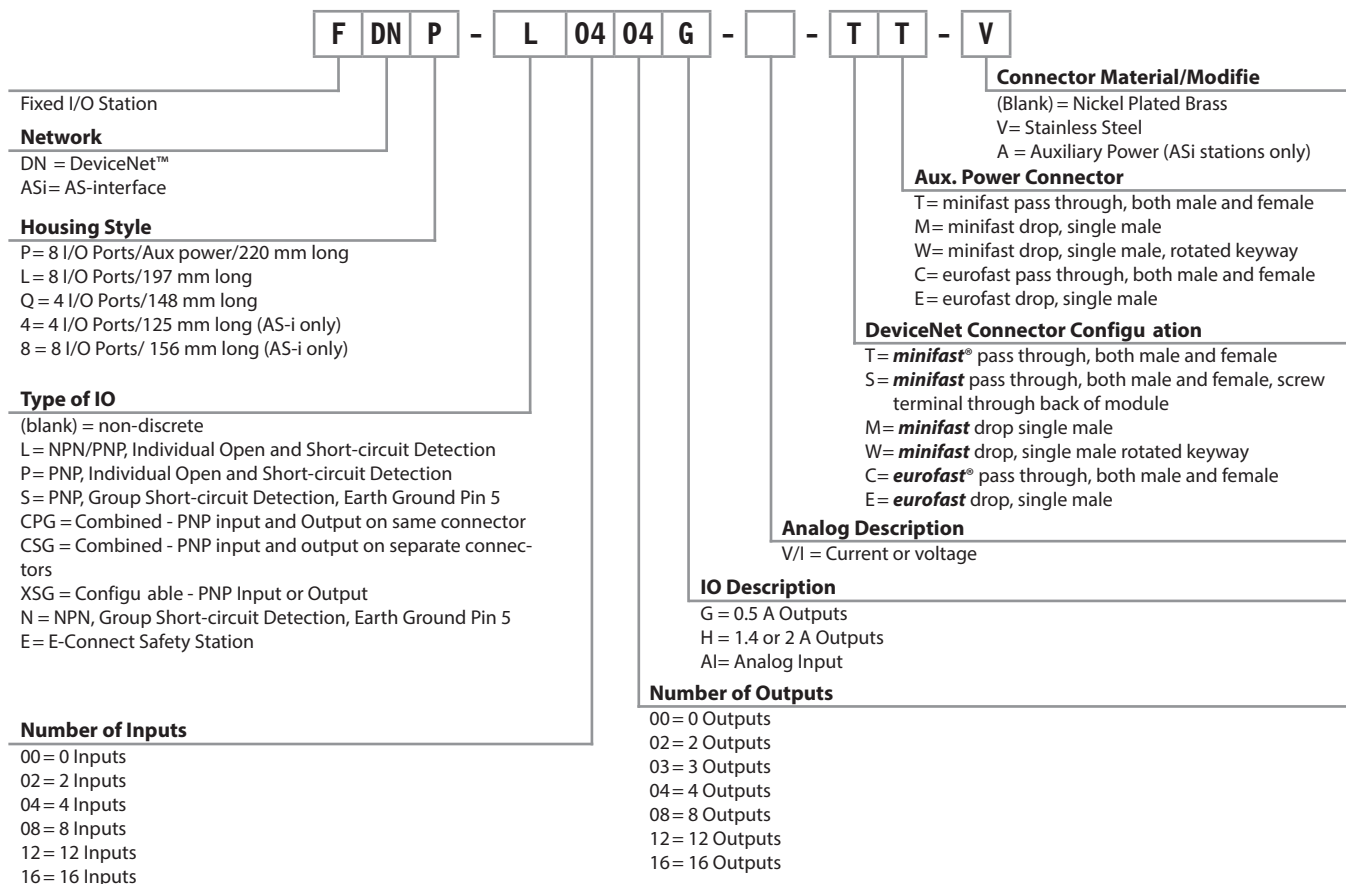
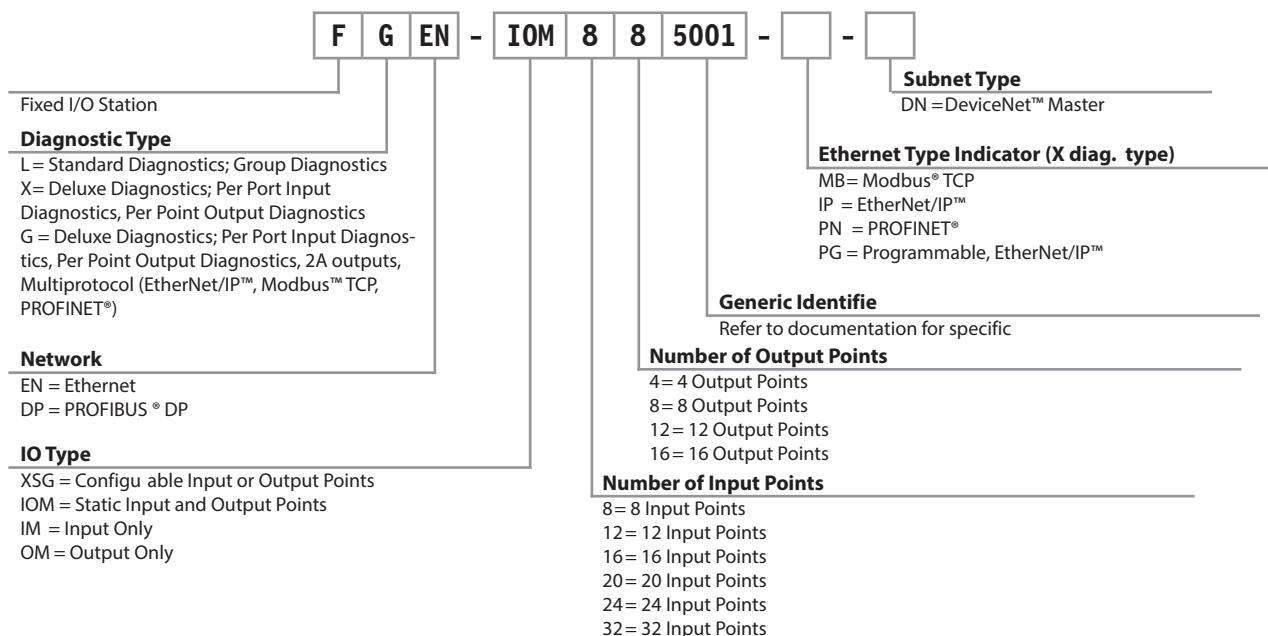
2AI-I
2AI-V
2AI-PT
2AI-TC
4AI-VI
4AI-TC
2AO-I
2AO-V
4AO-V
2AI2AO-VI
4AI4AO-VI
1RS232
1RS485-422
1SSI
1CNT-ENC

*8M8/16M8 housings only
** 16M8 housings only

E3 B3027

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On-Machine Block I/O Part Number Key

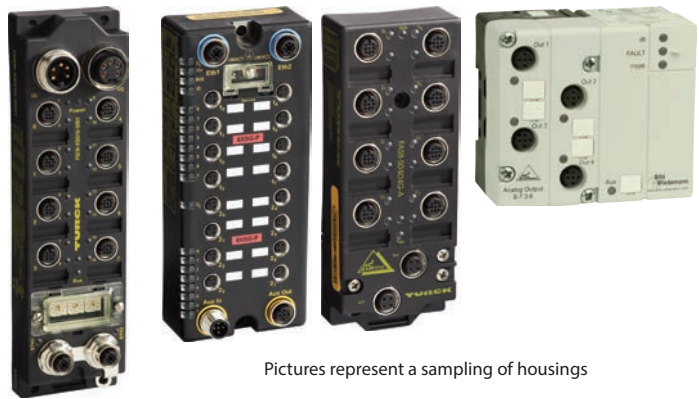


ON-MACHINE BLOCK I/O

Discrete I/O

- PNP Style I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)
- Nickel Plated Brass Connectors*
- IP67*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
7.756 [197.0] REF 7.362 [187.0] 0.213 [05.4] MOUNTING HOLE 4x 1.654 [42.0] 2.362 [60.0] REF 1.063 [27.0] REF	FDNL-CSG88-W	DeviceNet™	
	FDNL-L1600-T	DeviceNet	
	FDNL-N1600-T	DeviceNet	
	FDNL-S0808HI-MM	DeviceNet	x
	FDNL-S1600-T	DeviceNet	
	FDNL-S1600-W	DeviceNet	
	FDNL-SN0808N-C	DeviceNet	
	FDNL-XSG16-T	DeviceNet	

No. of Inputs	No. of Outputs	Deluxe Diagnostics	Certifications	Notes
8	8		UL, CE, CSA	Single 7/8" Fieldbus Connector
16		x	UL, CE, CSA, FM	PNP / NPN Configurable Inputs
16			UL, CE, CSA, FM	NPN Style Inputs
8	8		UL, CE, CSA, FM	High Power 2A Outputs
16			UL, CE, CSA, FM	
16			UL, CE, CSA	Single 7/8" Fieldbus Connector
8	8		UL, CE, CSA, FM	PNP / NPN Configurable Inputs, NPN Outputs, M12 Fieldbus Connectors
16	16		UL, CE, CSA, FM	16 Configurable Input or Output Channels

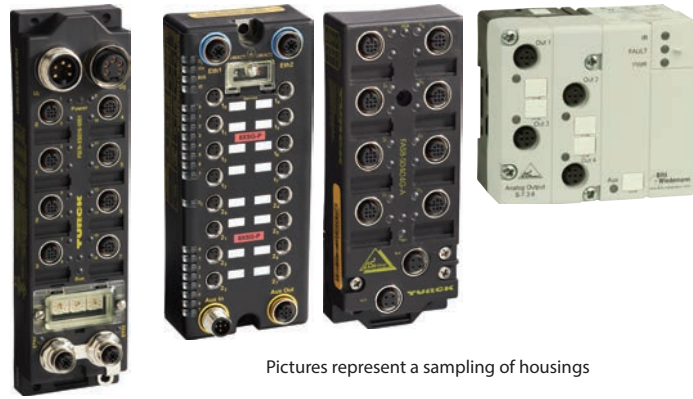
On-Machine Block

ON-MACHINE BLOCK I/O

Discrete I/O

- PNP Style I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)
- Nickel Plated Brass Connectors*
- IP67*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
	FGEN-IM16-4001	Multiprotocol	x
	FGEN-IM16-5001	Multiprotocol	x
	FGEN-IOM88-4001	Multiprotocol	x
	FGEN-IOM88-5001	Multiprotocol	x
	FGEN-OM16-4001	Multiprotocol	x
	FGEN-OM16-5001	Multiprotocol	x
	FGEN-XSG16-4001	Multiprotocol	x
	FGEN-XSG16-5001	Multiprotocol	x
	FDNP-L0808H-TT	DeviceNet™	x
	FDNP-P0808H-TT	DeviceNet	x
	FDNP-S0808G-TT	DeviceNet	x
	FDNP-S0808G-WW	DeviceNet	x
	FDNP-S0808H-WW	DeviceNet	x
	FDNP-XSG16-ST	DeviceNet	x
	FDNP-XSG16-TT	DeviceNet	x
	FLDP-IM 16-0001	PROFIBUS®-DP	x
	FLDP-IOM 88-0002	PROFIBUS-DP	x
	FLDP-OM 16-0001	PROFIBUS-DP	x
	FXDP-IM 16-0001	PROFIBUS-DP	x
	FXDP-IOM 88-0001	PROFIBUS-DP	x
	FXDP-OM 16-0001	PROFIBUS-DP	x
	FXDP-XSG16-0001	PROFIBUS-DP	x

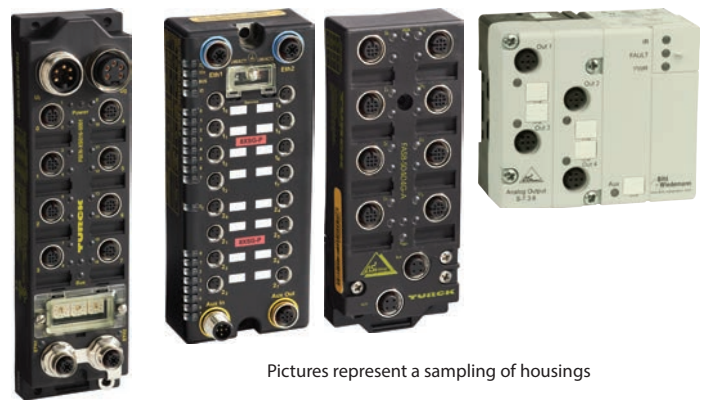
No. of Inputs	No. of Outputs	Deluxe Diagnostics	Certifications	Notes
16		x	CE	4-pin Aux Power Connectors
16		x	CE	
8	8	x	CE	High Power 2A Outputs, 4-pin Aux Power Connectors
8	8	x	CE	High Power 2A Outputs
	16	x	CE	High Power 2A Outputs, 4-pin Aux Power Connectors
	16	x	CE	High Power 2A Outputs
16	16	x	CE	High Power 2A Outputs, 16 Configurable Input or Output Channels, 4-pin Aux Power Connectors
16	16	x	CE	High Power 2A Outputs, 16 Configurable Input or Output Channels
8	8	x	UL, CE, CSA	PNP / NPN Configurable Inputs, High Power 2A Outputs
8	8	x	UL, CE, CSA	High Power 2A Outputs
8	8		UL, CE, CSA, FM	
8	8		UL, CE, CSA	Single 7/8" Fieldbus Connector, Single 7/8" Aux Power Connector
8	8		UL, CE, CSA	High Power 1.4A Outputs, Single 7/8" Fieldbus Connector, Single 7/8" Aux Power Connector
16	16		UL, CE, CSA	16 Configurable Input or Output Channels , Screw Terminal Connections Out Back
16	16		UL, CE, CSA, FM	16 Configurable Input or Output Channels
16			UL, CE, CSA	
8	8		UL, CE	
	16		UL, CE, CSA	
16		x	UL, CE, CSA	
8	8	x	UL, CE, CSA	High power 1.4A Outputs
	16	x	UL, CE, CSA	High Power 1.4A Outputs
16	16	x	UL, CE, CSA	High power 1.4A Outputs, 16 Configurable Input or Output Channels

ON-MACHINE BLOCK I/O

Discrete I/O

- PNP Style I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)
- Nickel Plated Brass Connectors*
- IP67*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
	FLDP-IM 32-0001	PROFIBUS®-DP	x
	FLDP-IOM 1616-0001	PROFIBUS-DP	x

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No. of Inputs	No. of Outputs	Deluxe Diagnostics	Certifications	Notes
32			UL, CE, CSA	
16	16		UL, CE, CSA	

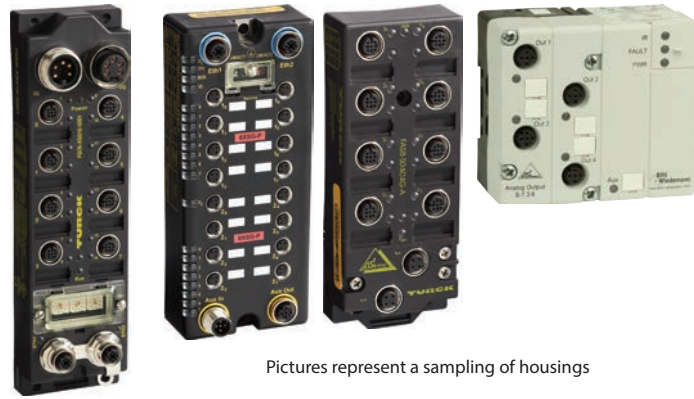
On-Machine Block

ON-MACHINE BLOCK I/O

Discrete I/O

- PNP Style I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)
- Nickel Plated Brass Connectors*
- IP67*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
	BLCEN-16M8LT-8XSG-P-8XSG-P	Multiprotocol	x
	BLCCO-16M8LT-8XSG-P-8XSG-P	CANopen	x
	BLCCO-8M12L-8DI-P-8DI-P	CANopen	
	BLCCO-8M12LT-4D0-0.5A-P-4D0-0.5A-P	CANopen	x
	BLCCO-8M12LT-8XSG-P-8XSG-P	CANopen	x
	BLCDN-16M8L-8DI-N-8DI-N	DeviceNet™	
	BLCDN-16M8L-8DI-P-8DI-P	DeviceNet	
	BLCDN-16M8L-8XSG-P-8XSG-P	DeviceNet	
	BLCDN-16M8LT-8D0-0.5A-N-8D0-0.5A-N	DeviceNet	x
	BLCDN-16M8LT-8D0-0.5A-P-8D0-0.5A-P	DeviceNet	x
	BLCDN-16M8LT-8XSG-P-8XSG-P	DeviceNet	x
	BLCDN-8M12L-8DI-P-8DI-N	DeviceNet	
	BLCDN-8M12LT-4D0-2A-N-4D0-2A-N	DeviceNet	x
	BLCDN-8M12LT-4D0-2A-P-4D0-2A-P	DeviceNet	x
	BLCDN-8M12LT-8DI-N-8D0-0.5A-N	DeviceNet	x
	FDNQ-S0404G-MM	DeviceNet	x
	FDNQ-S0404G-T	DeviceNet	
	FDNQ-S0800-T	DeviceNet	
	FDNQ-XSG08-T	DeviceNet	

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No. of Inputs	No. of Outputs	Deluxe Diagnostics	Certifications	Notes
16	16		UL, CE	16 Configurable Input or Output Channels, M8 I/O connectors
16	16		UL, CE	16 Configurable Input or Output Channels, M8 I/O connectors
16			UL, CE	
	8		UL, CE	
16	16		UL, CE	16 Configurable Input or Output Channels
16			UL, CE	NPN Inputs, M8 I/O Connectors
16			UL, CE	M8 I/O Connectors
16	16		UL, CE	16 Configurable Input or Output Channels, M8 I/O connectors
	16		UL, CE	NPN Style Outputs, M8 I/O Connectors
	16		UL, CE	M8 I/O Connectors
16	16		UL, CE	16 Configurable Input or Output Channels, M8 I/O connectors
16			UL, CE	8 PNP Style Inputs, 8 NPN Style Inputs
	8		UL, CE	High Power 2A Outputs, NPN Style Outputs
	8		UL, CE	High Power 2A Outputs
8	8		UL, CE	NPN Style Input and Output points
4	4		UL, CE, CSA, FM	
4	4		UL, CE, CSA, FM	
8			UL, CE, CSA, FM	
8	8		UL, CE, CSA, FM	8 Configurable Input or Output Channels

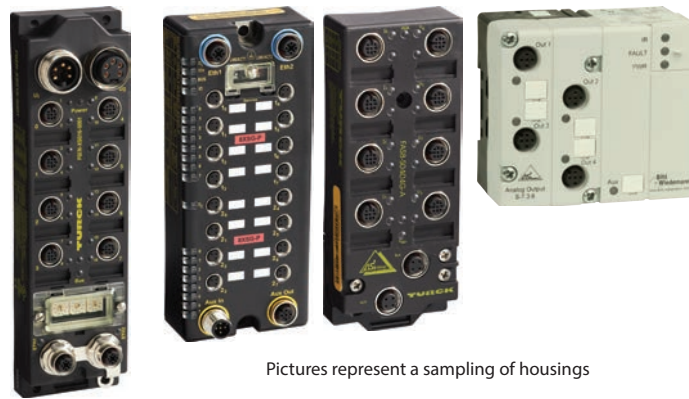
On-Machine Block

ON-MACHINE BLOCK I/O

Discrete I/O

- PNP Style I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)
- Nickel Plated Brass Connectors*
- IP67*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
	BLCCO-4M12S-4DI-P	CANopen	
	BLCCO-4M12S-8XSG-P	CANopen	
	BLCCO-8M8S-8XSG-P	CANopen	
	BLCDN-8M8S-8DI-N	DeviceNet™	
	BLCDN-8M8S-8DI-P	DeviceNet	
	BLCEN-4M12MT-8DI-P	Multiprotocol	x
	BLCEN-4M12MT-8DO-0.5A-P	Multiprotocol	x
	BLCEN-8M8MT-8XSG-P	Multiprotocol	x
	BLCCO-4M12MT-4DO-0.5A-P	CANopen	x
	BLCCO-4M12MT-4DO-2A-P	CANopen	x
	BLCDN-4M12MT-4DO-2A-N	DeviceNet	x
	BLCDN-4M12MT-4DO-2A-P	DeviceNet	x

No. of Inputs	No. of Outputs	Deluxe Diagnostics	Certifications	Notes
4			UL, CE	
8	8		UL, CE	8 Configurable Input or Output Channels
8	8		UL, CE	8 Configurable Input or Output Channels, M8 I/O Connectors
8			UL, CE	NPN Style Inputs, M8 I/O Connectors
8			UL, CE	M8 I/O Connectors
8			UL, CE	
	8		UL, CE	
8	8		UL, CE	8 Configurable Input or Output Channels, M8 I/O Connectors
	4		UL, CE	
	4		UL, CE	High Power 2A Outputs
	4		UL, CE	High Power 2A Outputs, NPN Style Outputs
	4		UL, CE	High Power 2A Outputs

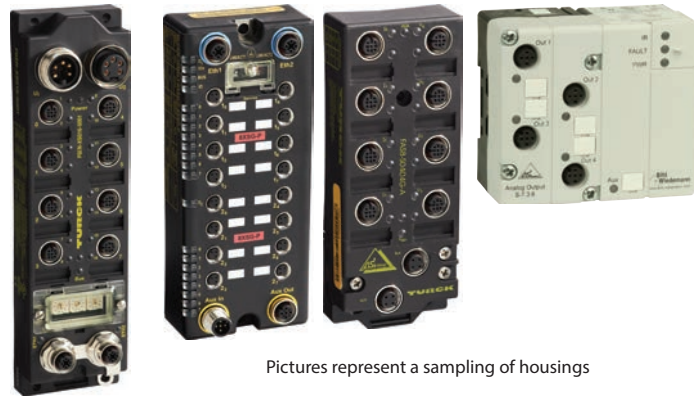
On-Machine Block

ON-MACHINE BLOCK I/O

Discrete I/O

- PNP Style I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)
- Nickel Plated Brass Connectors*
- IP67*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
	FAS4-CSG43-A	AS-I	x
	FAS4-CSG44	AS-I	
	FAS4-CSG44-A	AS-I	x
	FAS4-S0003G-A	AS-I	x
	FAS4-S0400	AS-I	
	FAS8-S0404G-A	AS-I	x
	FAS8-S0404H-A	AS-I	x

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No. of Inputs	No. of Outputs	Deluxe Diagnostics	Certifications	Notes
4	3			AS-I Version 2.1, AB Addressing, 700 mA Outputs
4	4		UL, CSA	AS-I Version 2.1, Single Addressing, 400mA outputs
4	4		UL, CSA	AS-I Version 2.1, Single Addressing, 700 mA outputs
	3		UL, CSA	Output power of 700 mA
4			UL, CSA	
4	4			AS-I Version 3.0, AB Addressing, 700 mA Outputs
4	4			AS-I Version 3.0, AB Addressing, High Power 2A Outputs

On-Machine Block

ON-MACHINE BLOCK I/O

Analog/Advanced I/O

- PNP Style Discrete I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)*
- Nickel Plated Brass Connectors*
- IP69K*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
	BLCEN-6M12LT-2RFID-S-8XSG-P	MultProtocol	x
	BLCEN-3M12LT-1RS232-2RFID-S	Multiprotocol	x
	BLCEN-4M12LT-2AI-PT-2AI-PT	Multiprotocol	x
	BLCEN-4M12LT-2RFID-S-2RFID-S	Multiprotocol	x
	BLCEN-6M12LT-4AI-VI-2AO-I	Multiprotocol	x
	BLCEN-8M12LT-4AI4AO-VI-4AI4AO-VI	Multiprotocol	x
	BLCEN-8M12LT-4AI-VI-4AI-VI	Multiprotocol	x
	BLCEN-IP-8M12LT-4AI-TC-4AI-TC	Multiprotocol	x
	BLCCO-4M12L-2AI-PT-2AI-PT	CANopen	
	BLCCO-4M12L-2RFID-S-2RFID-S	CANopen	
	BLCCO-6M12L-4AI-VI-2AO-I	CANopen	
	BLCCO-6M12LT-2RFID-S-8XSG-P	CANopen	x
	BLCCO-8M12L-4AI-VI-4AI-VI	CANopen	
	BLCCO-8M12LT-4AI-VI-4D0-0.5A-P	CANopen	x
	BLCCO-8M12LT-4AI-VI-8XSG-P	CANopen	x
	BLCDN-4M12L-2AI-PT-2AI-PT	DeviceNet™	
	BLCDN-4M12L-2AO-I-2AO-I	DeviceNet	
	BLCDN-4M12L-2RFID-S-2RFID-S	DeviceNet	
	BLCDN-6M12L-4AI4AO-VI-4DI-P	DeviceNet	
	BLCDN-6M12L-4AI-VI-2AO-I	DeviceNet	
	BLCDN-6M12LT-2RFID-S-8XSG-PD	DeviceNet	x
	BLCDN-8M12L-4AI-TC-4AI-TC	DeviceNet	
	BLCDN-8M12L-4AI-VI-4AI-VI	DeviceNet	
	BLCDN-8M12LT-4AI-VI-8XSG-PD	DeviceNet	x
	BLCDP-4M12LT-2AI-PT-2AI-PT	PROFIBUS-DP	x

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Industrial
Automation

Number of Inputs	Number of Outputs	Number of Tech Channels	Housing Style	Deluxe Diagnostics	Certifications	Notes
8	8	2	D		UL, CE	2 RFID Channels, 8 Configurable Discrete Inputs or Outputs
		3	D		UL, CE	1 RS232 Channel, 2 RFID Channels
4			D		UL, CE	4 RTD Analog Inputs
		4	D		UL, CE	4 RFID Channels
4	2		D		UL, CE	4 Configurable Analog Inputs, 2 Current Analog Outputs
8	8		D		UL, CE	8 Configurable Analog Inputs, 8 Voltage Analog Outputs
8			D		UL, CE	8 Configurable Analog Inputs
8			D		UL, CE	8 Thermocouple Analog Inputs
4			D		UL, CE	4 RTD Analog Inputs
		4	D		UL, CE	4 RFID Channels
4	2		D		UL, CE	4 Configurable Analog Inputs, 2 Current Analog Outputs
8	8	2	D		UL, CE	2 RFID Channels, 8 Configurable Discrete Inputs or Outputs
8			D		UL, CE	8 Configurable Analog Inputs
4	4		D		UL, CE	4 Configurable Analog Inputs, 4 Discrete Outputs
12	8		D		UL, CE	4 Configurable Analog Inputs, 8 Configurable Discrete Inputs or Outputs
4			D		UL, CE	4 RTD Analog Inputs
	4		D		UL, CE	4 Current Analog Outputs
		4	D		UL, CE	4 RFID Channels
8	4		D		UL, CE	4 Configurable Analog Inputs, 4 Voltage Analog Outputs, 4 Discrete Inputs
4	2		D		UL, CE	4 Configurable Analog Inputs, 2 Current Analog Outputs
8	8	2	D	x	UL, CE	2 RFID Channels, 8 Configurable Discrete Inputs or Outputs
8			D		UL, CE	8 Thermocouple Analog Inputs
8			D		UL, CE	8 Configurable Analog Inputs
12	8		D	x	UL, CE	4 Configurable Analog Inputs, 8 Configurable Discrete Inputs or Outputs
4			D		UL, CE	4 RTD Analog Inputs

On-Machine Block

ON-MACHINE BLOCK I/O

Analog/Advanced I/O

- PNP Style Discrete I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)*
- Nickel Plated Brass Connectors*
- IP69K*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
	BLCDP-6M12LT-2AI-PT-8XSG-PD	PROFIBUS®-DP	x
	BLCDP-6M12LT-2A0-I-8XSG-PD	PROFIBUS-DP	x
	BLCDP-6M12LT-2A0-V-8XSG-PD	PROFIBUS-DP	x
	BLCDP-6M12LT-2RFID-S-8XSG-PD	PROFIBUS-DP	x
	BLCDP-8M12LT-4AI-VI-4AI-VI	PROFIBUS-DP	x
	BLCDP-8M12LT-4AI-VI-8XSG-PD	PROFIBUS-DP	x
	BLCC0-2M12S-2A0-V	CANopen	
	BLCC0-2M12S-2RFID-S	CANopen	
	BLCC0-4M12S-4AI-TC	CANopen	
	BLCC0-4M12S-4AI-VI	CANopen	
	BLCDN-2M12S-2AI-PT	DeviceNet™	
	BLCDN-2M12S-2A0-I	DeviceNet	
	BLCDN-2M12S-2A0-V	DeviceNet	
	BLCDN-2M12S-2RFID-S	DeviceNet	
	BLCDN-4M12S-4AI4A0-VI	DeviceNet	
	BLCDN-4M12S-4AI-VI	DeviceNet	
	BLCDN-4M12S-4A0-V	DeviceNet	

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Number of Inputs	Number of Outputs	Number of Tech Channels	Housing Style	Deluxe Diagnostics	Certifications	Notes
10	8		D	x	UL, CE	2 RTD Analog Inputs, 8 Configurable Discrete Inputs or Outputs
8	10		D	x	UL, CE	2 Current Analog Outputs, 8 Configurable Discrete Inputs or Outputs
8	10		D	x	UL, CE	2 Voltage Analog Outputs, 8 Configurable Discrete Inputs or Outputs
8	8	2	D	x	UL, CE	2 RFID Channels, 8 Configurable Discrete Inputs or Outputs
8			D		UL, CE	8 Configurable Analog Inputs
12	8		D	x	UL, CE	4 Configurable Analog Inputs, 8 Configurable Discrete Inputs or Outputs
	2		F		UL, CE	2 Voltage Analog Outputs
		2	F		UL, CE	2 RFID Channels
4			F		UL, CE	4 Thermocouple Analog Inputs
4			F		UL, CE	4 Configurable Analog Inputs
2			F		UL, CE	2 RTD Analog Inputs
	2		F		UL, CE	2 Current Analog Outputs
	2		F		UL, CE	2 Voltage Analog Outputs
		2	F		UL, CE	2 RFID Channels
4	4		F		UL, CE	4 Configurable Analog Inputs, 4 Voltage Analog Outputs
4			F		UL, CE	4 Configurable Analog Inputs
	4		F		UL, CE	4 Voltage Analog Outputs

On-Machine Block

ON-MACHINE BLOCK I/O

Analog/Advanced I/O

- PNP Style Discrete I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)*
- Nickel Plated Brass Connectors*
- IP69K*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
	BLCEN-1M12MT-1RS232	Multiprotocol	x
	BLCEN-1M12MT-1RS485-422	Multiprotocol	x
	BLCEN-1M12MT-1SSI	Multiprotocol	x
	BLCEN-2M12MT-2AI-PT	Multiprotocol	x
	BLCEN-2M12MT-2RFID-S	Multiprotocol	x
	BLCEN-4M12MT-4AI4A0-VI	Multiprotocol	x
	BLCEN-4M12MT-4AI-TC	Multiprotocol	x
	BLCEN-4M12MT-4AI-VI	Multiprotocol	x
	BLCEN-4M12MT-4A0-V	Multiprotocol	x
	BLCDP-1M12MT-1SSI	PROFIBUS®-DP	x
	BLCDP-2M12MT-2RFID-S	PROFIBUS-DP	x
	BLCDP-4M12MT-4AI4A0-VI	PROFIBUS-DP	x
	BLCDP-4M12MT-4AI-TC	PROFIBUS-DP	x
	BLCDP-4M12MT-4AI-VI	PROFIBUS-DP	x
	BLCDP-4M12MT-4A0-V	PROFIBUS-DP	x
	ASI-AI-4-M12 BW1359	AS-I	x
	ASI-AI-4-M12 BW1360	AS-I	x
	ASI-AI-4PT100-M12 BW2532	AS-I	
	ASI-A0-4-M12 BW1361	AS-I	x
	ASI-A0-4-M12 BW1362	AS-I	x

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Number of Inputs	Number of Outputs	Number of Tech Channels	Housing Style	Deluxe Diagnostics	Certifications	Notes
		1	G		UL, CE	1 RS232 Channel
		1	G		UL, CE	1 RS485/422 Channel
		1	G		UL, CE	1 SSI Channel
2			G		UL, CE	2 RTD Analog Inputs
		2	G		UL, CE	2 RFID Channels
4	4		G		UL, CE	4 Configurable Analog Inputs, 4 Voltage Analog Outputs
4			G		UL, CE	4 Thermocouple Analog Inputs
4			G		UL, CE	4 Configurable Analog Inputs
	4		G		UL, CE	4 Voltage Analog Outputs
		1	G		UL, CE	1 SSI Channel
		2	G		UL, CE	2 RFID Channels
4	4		G		UL, CE	4 Configurable Analog Inputs, 4 Voltage Analog Outputs
4			G		UL, CE	4 Thermocouple Analog Inputs
4			G		UL, CE	4 Configurable Analog Inputs
	4		G		UL, CE	4 Voltage Analog Outputs
4			J		UL, CE	4 to 20mA Analog Inputs, AS-I Ver 2.1, Single Addressing Style, 7.3-E Slave Profile, IP65
4			J		UL, CE	0 to 10V Analog Inputs, AS-I Ver 2.1, Single Addressing Style, 7.3-E Slave Profile, IP65
4			J		UL, CE	RTD Analog Inputs, AS-I Ver 2.1, Single Addressing Style, 7.3-E Slave Profile, IP65
	4		J		UL, CE	0 to 20mA Analog Outputs, AS-I Ver 2.1, Single Addressing Style, 7.3-6 Slave Profile, IP65
	4		J		UL, CE	0 to 10V Analog Outputs, AS-I Ver 2.1, Single Addressing Style, 7.3-6 Slave Profile, IP65

On-Machine Block

ON-MACHINE BLOCK I/O

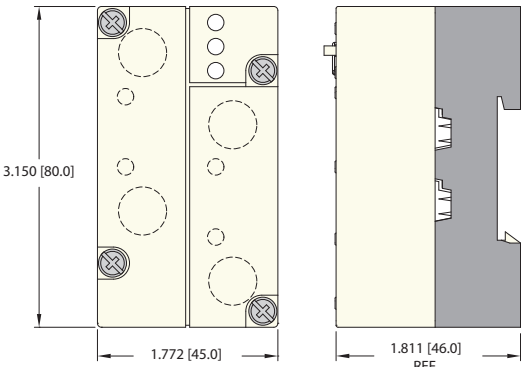
Analog/Advanced I/O

- PNP Style Discrete I/O*
- 0.5A Outputs*
- Fiberglass Reinforced Nylon Housing (fully potted)*
- Nickel Plated Brass Connectors*
- IP69K*

* Unless otherwise specified in the notes.



Pictures represent a sampling of housings

Housing Style	Part Number	Protocol	Aux. Power
	ASI-AI-02-M12-V3 BW1893	AS-I	
	ASI-AI-02-M12-V3 BW1963	AS-I	
	ASI-AI-02RTD-M12-V3 BW1895	AS-I	

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Number of Inputs	Number of Outputs	Number of Tech Channels	Housing Style	Deluxe Diagnostics	Certifications	Notes
2			K		UL, CE	4 to 20mA Analog Inputs, AS-I Ver 3.0, AB Addressing Style, 7.A-9 Slave Profile, IP65
2			K		UL, CE	0 to 10V Analog Inputs, AS-I Ver 3.0, AB Addressing Style, 7.A-9 Slave Profile, IP65
2			K		UL, CE	RTD Analog Inputs, AS-I Ver 3.0, AB Addressing Style, 7.A-9 Slave Profile, IP65

On-Machine Block