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Powe Out TeTuTs

US UA BUS

Fieldbus Systems





Product topology

20

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Fieldbus System: Profibus

In use for years, Profibus stands for well-engineered fieldbus technology and reliably supports modern manufacturing. As a full-service provider, Balluff offers a wide range of components for optimum Profibus use. Regardless of controller manufacturer, Balluff has the perfect solution in store for you: for efficient field and process communication with simple wiring and fast integration through direct installation in your system and the possibility of fast modifications. Even in harsh environments.

Balluff Profibus solutions are IO-Link capable, allowing you to take advantage of solid IO-Link benefits. Wiring is made even simpler. Integrated diagnostics prevent system failure and the central configuration quickly returns systems to operation. You save time and benefit from real cost advantages.

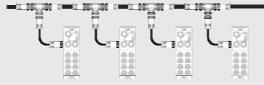
In addition, Profibus offers investment security, since standard IEC 61158/EN 50170 simplifies expansion of your system. With mature connection technology, Balluff contributes to increased efficiency and growing cost savings.



Trunk and drop lines

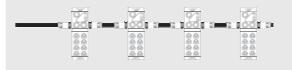
- Very simple troubleshooting
- A single device can be disconnected without disrupting the network

Extra cable requirements result in higher costs



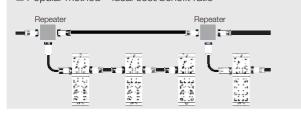
Connected in series

- Difficult troubleshooting
- Disconnecting a device interrupts the network
- Lower costs due to fewer cabling components



Mixed topology

- Creation of logical groups results
- in relatively simple troubleshooting Popular method – ideal cost/benefit ratio



The best I/O modules in the industry

Impressive features. Impressive functionality. Impressive performance

Clearly visible status LEDs

Low-quality LEDs that are often difficult to identify under demanding production conditions perform poorly when used in high-speed applications. Unlike Balluff status LEDs, which are large, bright, highly visible and provide maximum assistance. Balluff quality will help you complete setup and maintenance tasks and reduce machine downtimes with ease.

Powerful and

reliable outputs With an output current of up to 2 A, Balluff output modules are capable of driving almost any load. Each output also offers an overload protection with LED indicator and a memory feature for easy troubleshooting.

Robust, full-metal housing

The fully encapsulated housing can withstand impacts, shaking, corrosive fluids, as well as people stepping on it and costs no more than a plastic housing.





A firmly entrenched part of the module is a display that can be locked via the PLC, which prevents unauthorized access. Two LEDs controlled by the PLC allow you to visualize results that are not specific to the module or

port at the location where they occur.

Inputs with high density

All Balluff input blocks offer two input points for each connector, accessed via a V splitter. A DESINA output is also optionally available via pin 2.

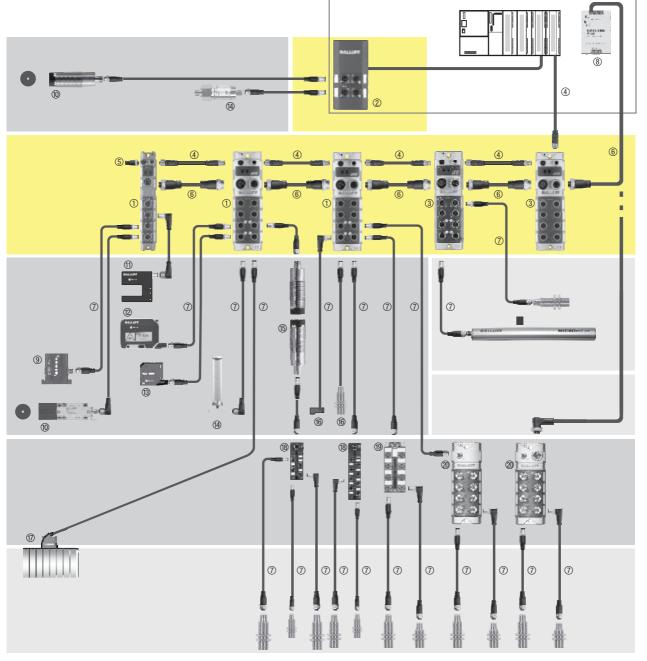


Innovative housing design

The extra-flat profile reduces potential dangers posed by cables. Rounded corners offer highly visible locations for channel markers and two mounting points are sufficient to secure the robust metal housing.



High-quality connectors and compatible accessories are required to create an efficient Profibus system. Balluff offers all the components you need for optimally setting up a Profibus network and providing it with first-class support.



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OIO-Link

IO-Link multiple-position switch BNS	Page 171
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1 IO-Link fork sensor BGL	Page 157
IO-Link laser distance sensor BOD	Page 159
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⑦ IO-Link valve terminal connector BNI	Page 180
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Profibus Product topology IO-Link modules Modules Power cables Power connectors Power tee Bus cables Bus plugs Bus connectors Flange plug and socket Terminating resistor Accessories Profinet CC-Link Devicenet Ethernet/IP Unmanaged switches



The Balluff Profibus interface ensures optimum operation of IO-Link modules as well as acyclical operation of Profibus DP V1.

The module includes four IO-Link master ports that can be configured and used fully independently of one another. All IO-Link ports support COM1, COM2, COM3 (3-wire only) as well as SIO mode.

The IO-Link ports also include an additional input or input/output via pin 2. This means that SIO mode also enables the connection of complementary NO/NC and DESINA sensors.

You get four additional standard IO ports with eight inputs or eight freely configurable inputs/outputs for standard sensors and actuators up to **2 A**.

In addition to time savings and considerable cost savings, it provides even greater ease of operation. Balluff provides Profibus modules with a display that you can use to set station numbers or call up module information such as the hardware and software status. This increases security and simplifies maintenance.

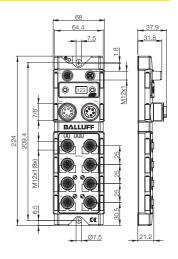




Fieldbus	Profibus
Version	4× IO-Link, 16× DI/DO
Ordering code	BNI005R
Part number	BNI PBS-502-101-Z001
Supply voltage U _B	1830 V DC
Indicator/input	BUS/RUN
Function indicator	Display/pushbutton
Module status indicator: Mod LED	Yes
Network status indicator: Net LED	Yes
Port status indicator	Black, red, yellow
Connection: Fieldbus	M12, B coded, socket/plug
Connection: AUX power	7/8", plug, 5-pin
Connection: I/O ports	M12, A-coded, female
No. of I/O ports	8
Number of inputs	Max. 16 PNP
Number of outputs	Max. 16 PNP
Configurable inputs/outputs	Yes
Max. load current, sensors/channel	200 mA
Max. load current, output	1.6 A/2 A
Port status indicator (signal status)	Yellow LED
Port diagnostic indicator (overload)	Red LED
Total current U _{Actuator}	≤9 A
Total current U _{Sensor}	≤9 A
Degree of protection as per IEC 60529	IP 67 (when screwed into place)
Operating temperature T _a	−5+70 °C
Storage temperature	–25+70 °C
Fastener	2 mounting holes
Dimensions (L×W×H)	225×68×36.9 mm
Housing material	Nickel-plated GdZn

IO-Link Version 1.1

No. of IO-Link master ports		4× master	
Operating mod	des (3-wire)	SIO, COM 1, COM 2, COM 3	
Indicators Communication		Green LED	
	Error	Red LED	
Max. load current for IO-Link device		1.6 A	





All modules include four screw plugs and a label set.

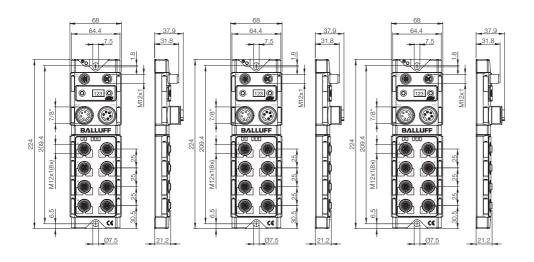








			moduloo
Profibus	Profibus	Profibus	Power cables
16× DI/DO, configurable	16 DI	8 DO	Power connectors
BNI0047	BNI005C	BNI0057	Power tee Bus cables
BNI PBS-302-101-Z001	BNI PBS-104-101-Z001	BNI PBS-202-101-Z001	Bus cables Bus plugs
1830 V DC	1830 V DC	1830 V DC	Bus connectors
BUS/RUN	BUS/RUN	BUS/RUN	Flange plug and
Display/pushbutton	Display/pushbutton	Display/pushbutton	socket
Yes	Yes	Yes	Terminating resistor
Yes	Yes	Yes	Accessories
Black, red, yellow	Black, red, yellow	Black, red, yellow	Profinet
M12, B coded, socket/plug	M12, B coded, socket/plug	M12, B coded, socket/plug	CC-Link
7/8", plug, 5-pin	7/8", plug, 5-pin	7/8", plug, 5-pin	Devicenet
M12, A-coded, female	M12, A-coded, female	M12, A-coded, female	Ethernet/IP
8	8	8	Unmanaged switches
Max. 16 PNP	16 PNP	8 PNP	Switches
Max. 16 PNP			
Yes	No	No	
200 mA	200 mA		
2 A		2 A	
Yellow LED	Yellow LED	Yellow LED	
Red LED	Red LED	Red LED	
≤9 A		≤9 A	
≤9 A	≤9 A		
IP 67 (when screwed into place)	IP 67 (when screwed into place)	IP 67 (when screwed into place)	
−5+70 °C	−5+70 °C	−5+70 °C	
–25+70 °C	–25+70 °C	–25+70 °C	
2 mounting holes	2 mounting holes	2 mounting holes	
225×68×36.9 mm	225×68×36.9 mm	175×68×36.9 mm	
Nickel-plated GdZn	Nickel-plated GdZn	Nickel-plated GdZn	



Profibus

Product topology IO-Link modules

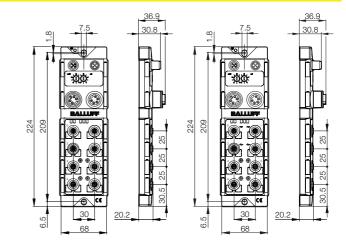
Modules

Profibus P111 module for the cost-effective integration of micropulse transducers BTL

Profibus modules P111 are designed for connecting micropulse transducers, the robust position measuring systems for extreme ambient conditions that can be used universally. Thanks to their durable metal housing, Profibus modules P111 meet the highest mechanical requirements and are ideally suited for use in the harsh industrial environment. The modules are fitted with four interdependent ports for micropulse transducers BTL. A maximum of 16 encoders can be used per BTL port. With a maximum rated length of 7500 mm. Four additional ports can be configured with digital or analog sensors, depending on the version.

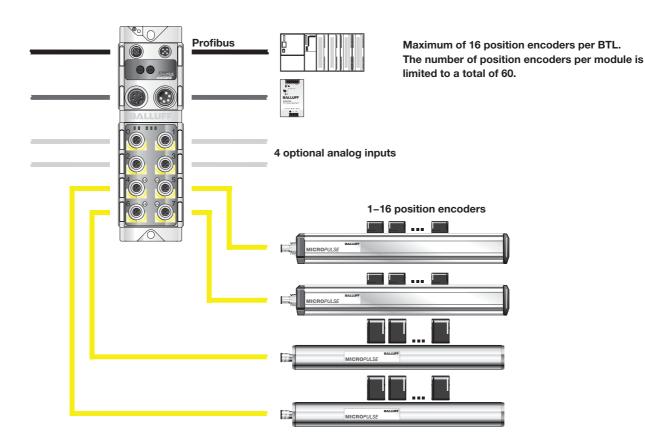
You can achieve maximum functionality and cost efficiency for fieldbus integration by combining Micropulse transducers BTL with Profibus modules P111.

0000 ((Digital inputs	Analog inputs
Fieldbus	Profibus	Profibus
Version	4× P111, 8× DI	4× P111, 4× Al
		(010 V/420 mA)
Ordering code	BNI0064	BNI0065
Part number	BNI-PBS-551-001-Z001	BNI-PBS-552-001-Z001
Supply voltage U _B	1830 V DC	1830 V DC
Function indicator	BUS RUN	BUS RUN
Fault function indicator	Red LED	
Power-on indicator	V_A , V_S , undervoltage	V_A , V_S , undervoltage
Connection: Fieldbus	M12, B-coded	M12, B-coded
Supply voltage connection	7/8", 5-pin, female and male	7/8", 5-pin, female and male
Connection: I/O ports	M12, A-coded, 5-pin, female	M12, A-coded, 5-pin, female
Connection: P111 port	M12, A-coded, 8-pin, female	M12, A-coded, 8-pin, female
No. of I/O ports	8	8
No. of digital inputs	8 PNP	
No. of analog inputs		4 (010 V/420 mA)
No. of P111 inputs	4	4
Max. load current, sensors/channel	1 A	1 A
Port status indicator (signal status)	Yellow LED	Yellow LED
Port diagnostic indicator (overload)	Red LED	Red LED
Total current U _{Sensor}	9 A	9 A
Degree of protection as per IEC 60529	IP 67 (when screwed into place)	IP 67 (when screwed into place)
Operating temperature T _a	0+70 °C	0+70 °C
Weight	Approx. 735 g	Approx. 735 g
Fastener	2 mounting holes	2 mounting holes
Dimensions (L×W×H)	224×68×36.9	224×68×36.9
Housing material	Nickel-plated GD-Zn, matt finish	Nickel-plated GD-Zn, matt finish



All modules include four screw plugs and a label set.

Profibus P111 module for the cost-effective integration of micropulse transducers BTL





Profibus

Product topology IO-Link modules Modules Power cables Power connectors Power tee Bus cables Bus plugs Bus connectors Flange plug and socket Terminating resistor Accessories Profinet CC-Link Devicenet Ethernet/IP Unmanaged switches

Profibus **IO-Link modules** For tight spaces - robust and compact

IO-Link master for tight spaces - robust and compact

The Profibus IO-Link master is the first choice for tight spaces and applications where there is dust, water, oils, or a risk of mechanical damage. The slim splitter in the rugged metal housing is particularly durable. With its small size and versatility, it is well-suited for IO-Link-capable sensors, such as pressure or distance sensors. Or if you want to connect sensor hubs, operating panels or actuators (valve cluster units). For the perfect connection of mini-masters we provide compact, molded mini-

plug connectors. The Profibus IO-Link master is available with two or four IO-Link interfaces, which means you can connect up to 68 sensors in combination with IO-Link sensor hubs.

Unused IO-Link ports can be used as standard inputs or outputs. Thus, the system is used to its fullest when space is at a premium.







Fieldbus	Profibus DP	
IO-Link	Master	
Version	4× IO-Link ports, max. 8 DI/DO	
Ordering code	BNI003P	
Part number	BNI-PBS-507-002-Z011	
Supply voltage U _B	1830 V DC	
Function indicator	BUS RUN	
Power-on indicator	V_A , V_S , undervoltage	
Connection: Fieldbus	M12, B-coded	
Supply voltage connection	7/8"	
Connection: I/O ports	M12, A-coded, female	
No. of I/O ports	4	
No. of IO-Link ports	Max. 4	
Number of inputs	Max. 8 PNP	
Number of outputs	Max. 8 PNP	
Configurable	Yes	
Max. load current, sensors/channel	200 mA	
Max. load current, output	≤ 1.6 A	
Port status indicator	Yellow LED	
Port diagnostic indicator	Short circuit/overload: red LED	
Total current U _{Actuator}	≤9 A	
Total current U _{Sensor}	≤9 A	
Degree of protection as per IEC 60529	IP 67 (when screwed into place)	
Operating temperature T _a	−5+55 °C	
Storage temperature	–25+70 °C	
Weight	Approx. 355 g	
Fastener	2 mounting holes	
Dimensions (L×W×H)	224×37×32 mm	
Housing material	Nickel-plated GdZn	

IO-Link Version 1.1

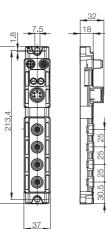
No. of IO-Link ports	4× master	
Operating modes (3-wire)	SIO, COM 1, COM 2, COM 3	
Communication indicator	Green LED	
Error indicator	Red LED	
Max. load current for IO-Link device	≤ 1.6 A	

The outer diameter of userfabricated connectors may not exceed 19 mm! We recommend using:

1 user-fabricated connector and

1 molded plug connector

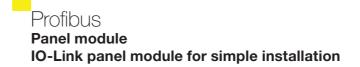
or 2 molded plug connectors.



224

All modules include four

screw plugs and a label set.



New IO-Link panel module for simple commissioning

Not only are installation and commissioning simplified with the Profibus IO-Link panel module, but cabling is also cost-effective. Developed for small to mid-sized machines and systems, it is ideal for centralized wiring concepts and, with IO-Link sensor hubs, satisfies the demand for modular construction. Now the machine and equipment can be checked before they leave the plant and commissioned on-site with no additional wiring.

The IO-Link panel module is particularly interesting where expensive connectors would otherwise be needed for routing the cables. The module provides four IO-Link ports on the outer panel. Simply connect IO-Link sensor hubs or IO-Link capable sensors here to create efficient, cost-effective connections using standard cables. The power supply and Profibus interface are connected to the inner panel. Another feature: a separate actuator power supply. This allows actuators such as hydraulic valves / pneumatic valve cluster units to be turned off separately.

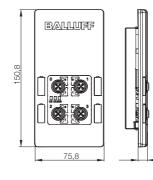




Fieldbus Version Ordering code Part number Supply voltage U _B Net function indicator Fault function indicator Power-on indicator Connection: Fieldbus Supply voltage connection Connection: I/O ports No. of I/O ports No. of I/O ports No. of I/O ports No. of I/O ports Number of inputs Number of AUX power ports Configurable Max. load current, sensors/channel Max. load current auxiliary power/channel Port status indicator (signal status) Port diagnostic indicator (overload)	Profibus DP 4× IO-Link, max. 4 DI BNI0030 BNI PBS-504-002-K008 1830.2 V DC Green LED Red LED Sensor module SUB-D, 9-pin Spring terminals M12, A-coded, female 4 Max. 4 Max. 4 Max. 4 Max. 4 Yes 1.6 A 3 A Yellow LED Red LED C 0 A	Power cables Power connectors Power tee Bus cables Bus plugs Bus connectors Flange plug and socket Terminating resistor Accessories Profinet CC-Link Devicenet Ethernet/IP Unmanaged switches
Number of AUX power ports	Max. 4	
Configurable		
Max. load current auxiliary power/channel	3 A	
Port diagnostic indicator (overload)		
Total current U _{Sensor} Degree of protection as per IEC 60529	IP 67 (fitted in panel)	
Operating temperature T _a Storage temperature	−5+55 °C −25+70 °C	
Weight Fastener	Approx. 130 g 4 mounting holes	
Dimensions (W×H)	150.8×75.8 mm	
Lead-in dimensions	112×46 mm	

IO-Link Version 1.1

No. of IO-Link ports	4× master	
Operating modes (3-wire)	SIO, COM 1, COM 2, COM 3	
Communication indicator	Green LED	
Error indicator	Red LED	
Max. load current for IO-Link device	≤ 1.6 A	



10

Reduce your wiring costs by 60%!

Profibus

Product topology

Modules

IO-Link modules



All modules include four screw plugs and a label set.

Profibus Power cables 7/8", 5-pin

Connector diagram

Supply voltage $U_{\rm B}$

Ambient temperature T_a

and wiring

Туре



Female

IP 68

300 V DC

–25...+80 °C

PIN 1: black PIN 2: blue PIN 3: green/yellow PIN 4: brown PIN 5: white



PIN 1: black PIN 2: blue PIN 3: green/yellow PIN 4: brown PIN 5: white

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4	 	 	-	_
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Female 300 V DC 5×1.5 mm² IP 68 -25...+80 °C

Cable material		Color	Length
PUR	٩	Black	0.6 m
PUR	٩	Black	2 m
PUR	٩	Black	5 m
PUR	٩	Black	10 m
PUR	٩	Black	15 m

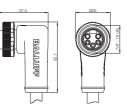
Degree of protection as per IEC 60529

Number of conductors \times conductor cross-section $5\times1.5\ mm^2$

Ordering code	
Part number	
BCC06HC	BCC06HH
BCC A315-0000-10-063-PX05A5-020	BCC A325-0000-10-063-PX05A5-020
BCC06HE	BCC06HJ
BCC A315-0000-10-063-PX05A5-050	BCC A325-0000-10-063-PX05A5-050
BCC06HF	BCC06HK
BCC A315-0000-10-063-PX05A5-100	BCC A325-0000-10-063-PX05A5-100

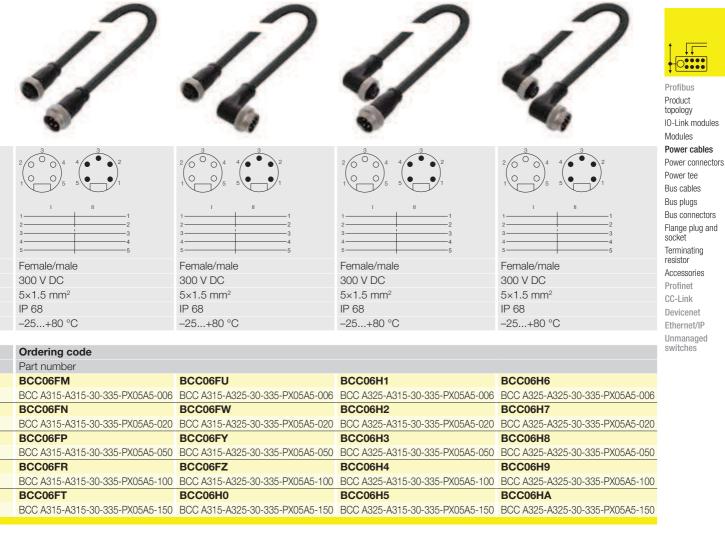
Other cable materials, colors, and lengths on request.







Profibus Power connection cables 7/8", 5-pin



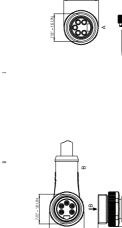


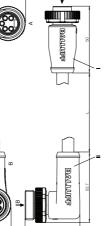
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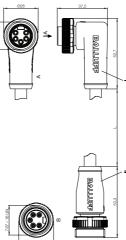
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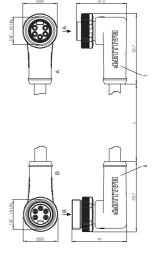
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Profibus Bus cable, M12, 5-pin, B-coded



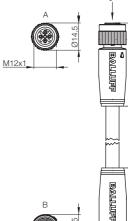
Other cable lengths on request.











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Profibus Bus plug with switchable terminating resistor







Female/male Male Sub D / female Sub D 30 V IP 30 -20...+70 °C Power cables Power connectors Power tee Bus cables Bus plugs Bus connectors Flange plug and socket Terminating resistor Accessories Profinet CC-Link Devicenet Ethernet/IP Unmanaged switches

Profibus Product topology IO-Link modules Modules

Cable outlets, right-angle

Ambient temperature T_a

Degree of protection as per IEC 60529

Cable outlets, straight

Connector diagram

and wiring

Туре

Connector type

Supply voltage U_{B}

Female/male Sub D/M12 30 V IP 67 -20...+70 °C

 Ordering code

 Part number

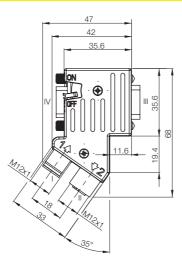
 BCC0C0Y

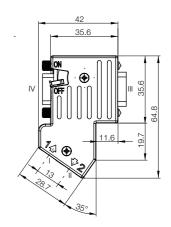
 BCC D259-M414-M415-U0029-000-C011

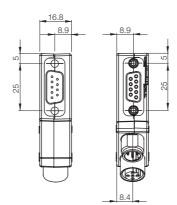
 BCC0C0Z

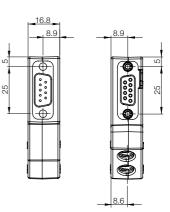
 BCC D269-M414-M415-U0029-000-C011

BCC0C10 BCC D279-0000-E0-000-65X4N1-000-C011 BCC0C11 BCC D289-0000-E0-000-65X4N1-000-C011

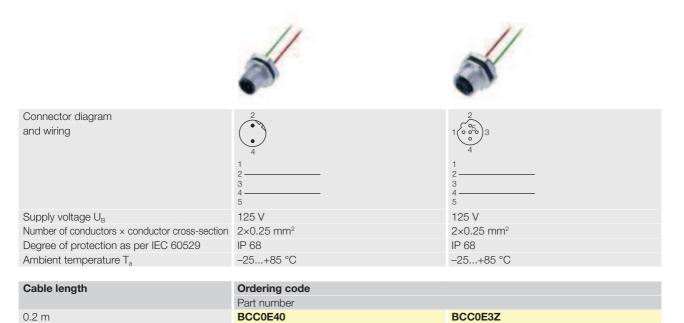






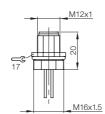


Profibus Flange plug and socket



0.2 m

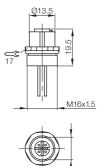
Other cable lengths on request.



BCC M452-0000-2B-RM080-002







M12x



Profibus Product topology IO-Link modules Modules Power cables Power connectors Power tee Bus cables Bus plugs Bus connectors Flange plug and socket Terminating resistor Accessories Profinet CC-Link Devicenet Ethernet/IP Unmanaged switches

Profibus Power plug connector, 7/8", 5-pin





Connector diagram and wiring

Туре
Supply voltage U_B
Number of conductors x conductor

Degree of protection as per IEC 60529 Ambient temperature T_a

Cable material Cable dia.	Color
PUR	Black
68 mm	
PUR	Black
810 mm	
PUR	Black
1012 mm	

 $4 \bigcirc 0 \bigcirc 0 \\ 3 \bigcirc 2$

Female 300 V 5× max. 1.5 mm² C 60529 IP 67 -25...+80 °C

Male
300 V
5× max. 1.5 mm
IP 67
–25+80 °C

 Ordering code

 Part number

 BCC070E

 BCC A335-0000-10-000-51X5A5-000

 BCC070F

 BCC A335-0000-10-000-61X5A5-000

 BCC070H

 BCC A335-0000-10-000-71X5A5-000

 BCC070J

 BCC A335-0000-20-000-51X5A5-000

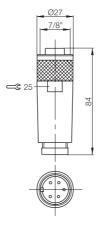
 BCC070K

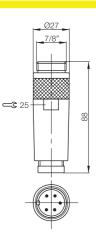
 BCC A335-0000-20-000-61X5A5-000

 BCC070L

 BCC A335-0000-20-000-71X5A5-000

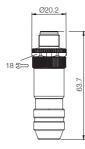
Other cable diameters on request.

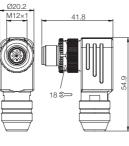




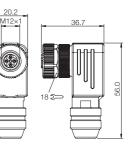
Profibus Bus plug connector, M12, 5-pin, B-coded, Customized assembly, shieldable

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	B D D		(a)))))		Profibus Product topology IO-Link modules Modules
Connector diagram and wiring			$1 \underbrace{\begin{pmatrix} 2 \\ 0 \\ 0 \\ 0 \\ 4 \end{pmatrix}}_{4}^{2} 3$	$1 \underbrace{\begin{pmatrix} 2 \\ 0 \\ 0 \\ 0 \\ 4 \end{pmatrix}}_{4}^{2} 3$	Power cables Power connectors Power tee Bus cables Bus plugs
Plug connector	M12	M12	M12	M12	Bus connectors
Version	B-coded	B-coded	B-coded	B-coded	Flange plug and socket
	5-pin	5-pin	5-pin	5-pin	Terminating
Туре	Male	Male	Female	Female	resistor
Ordering code	BCC0714	BCC0716	BCC0715	BCC0717	Accessories
Part number	BCC M475-0000-2B-000-01X575-000	BCC M485-0000-2B-000-01X575-000	BCC M475-0000-1B-000-01X575-000	BCC M485-0000-1B-000-01X575-000	Profinet
Supply voltage U _B	1030 V DC	1030 V DC	1030 V DC	1030 V DC	CC-Link
Number of conductors ×	5× max. 0.75 mm ²	5× max. 0.75 mm ²	5× max. 0.75 mm ²	5× max. 0.75 mm ²	Devicenet
conductor cross-section					Ethernet/IP
Min. cable diameter	Max. 8.0 mm	Max. 8.0 mm	Max. 8.0 mm	Max. 8.0 mm	Unmanaged switches
Connection	Screw terminal	Screw terminal	Screw terminal	Screw terminal	
Degree of protection as per IEC 60529	IP 67	IP 67	IP 67	IP 67	
Ambient temperature Ta	−25+85 °C	–25+85 °C	–25+85 °C	–25+85 °C	
Housing material	CuZn	CuZn	CuZn	CuZn	
Shielded design	Yes	Yes	Yes	Yes	

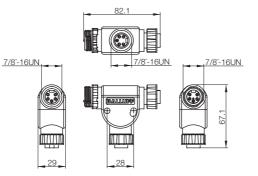


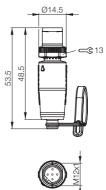










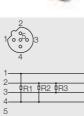




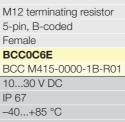




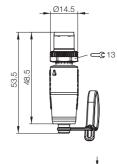


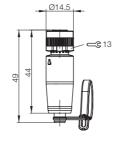


M12 terminating resistor
5-pin, B-coded
Male
BCC0719
BCC M415-0000-2B-R02
1030 V DC
IP 67
–40+85 °C
Plastic



IP 67 -40...+85 °C Plastic







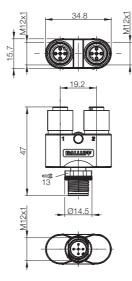


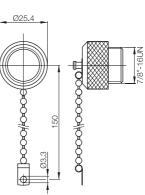
Profibus Product topology IO-Link modules Modules Power cables Power connectors Power tee Bus cables Bus plugs Bus connectors Flange plug and socket Terminating resistor Accessories Profinet

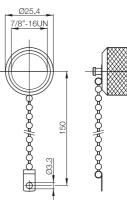
CC-Link Devicenet Ethernet/IP Unmanaged switches



Connector diagram and wiring	$3\underbrace{\underbrace{\begin{array}{c}2\\\bullet\\\bullet\\\bullet\\4\end{array}}^{2}}_{4}111\underbrace{1\left(\begin{smallmatrix}2\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\4\end{smallmatrix}\right)}_{4}311\underbrace{1\left(\begin{smallmatrix}2\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet\\\bullet$		
	$\begin{array}{c} 2 \\ 3 \\ 4 \\ 0 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$		
Description	T splitter	Screw plug 7/8"	Screw plug 7/8"
Use	2× M12 female to	Cover for the	Cover for the
	1× M12 male	power ports	power ports
Ordering code	BCC089P	BAM012T	BAM012U
Part number	BCC M415-M415-M415-U0003-000	BKS-7/8-CS-00-A	BKS-7/8-CS-00-I
Supply voltage U _B	125 V		
Rated operating current ${\sf I}_{\rm e}$	4 A		
Degree of protection as per IEC 60529	IP 67		
Ambient temperature T _a	–25+80 °C	–20+80 °C	–20+80 °C
Housing material	PA 6.6 + GF	Nickel-plated CuZn	Nickel-plated CuZn

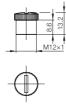


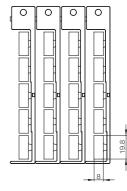






	8	000			Profibus Product topology IO-Link modules Modules
Description	Screw plug M12	Tamperproof cover	Marking sleeve	Label set	Power cables
Use	IP 65 screw plug for unused ports	with 4 openings	For labeling connectors	Labeling the ports for modules BNI PBS, BNI PNT, BNI DNT, BNI EIP, BNI CCL	Power connectors Power tee Bus cables Bus plugs Bus connectors Flange plug and
Ordering code	BAM01C2	BAM01J0		BAM01AT	socket
Part number	BAM CS-XA-002-M12-A	BAM FK-NI-PBS-01-C	BAM IA-CC-002-01	BNI ACC-L01-000	Terminating resistor
Ambient temperature T _a	–20+80 °C				Accessories Profinet
Housing material	Plastic			Plastic	CC-Link
	<u> </u>				Devicenet Ethernet/IP







Unmanaged switches

