

<p>BNI IOL-XXX-XXX-Z012-XXX</p>	<p>Customizing (optional) C01 - base types: IO-Link based execution deviation: plus 2 byte process data (read/write) for customer data C02 - base types: IO-Link based execution deviation: plus 2 byte process data (read/write) for customer data C10 – C-type thermocouple handling</p> <p>Mechanical version Die-cast zinc housing, matte nickel plated Bus connection and power supply 1xM12 external thread IO-Ports: 8xM12, female, 5-poles</p> <p>Variants 000 - basic version without additional functions IO-Link V1.0 002 - basic version without additional functions IO-Link V1.1 sensor-/actor hubs with expansion port S01 - ports with single channel monitoring, IO-Link V1.0 S02 - ports with single channel monitoring, IO-Link V1.1</p> <p>Function 102 - 8 PNP inputs 104 - 16 PNP inputs 106 - 16 NPN inputs 205 - 16 outputs 206 - 16 outputs 302 - 16 configurable I/O 719 - 8 analog inputs with C-type thermocouple</p> <p>Communication protocol IOL – IO-Link</p> <p>Basic Type Designation BNI - Balluff Network Interface</p>
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General information

	File	E319845
	Enclosure rating	Type 1
	Ambient temperature	45° C

Attention:

Please clean only with dry cloth or cloth dampened only with water!
The power supply has to be an isolated type or SELV type.

Power Ratings

Model	Nominal Rating Voltage	Type	Current Ratings
BNI IOL-XXX-XXX-X012 (except -719-)	24 V dc	Power Input	50 mA maximum consumption 1.6 A including all output loads
BNI IOL-719-XXX-Z012	24 V dc	Power Input	60 mA maximum consumption 1.26 A including all output loads
BNI IOL-XXX-XXX-X012	24 V dc	Power Output	1.4 A maximum
BNI IOL-719-XXX-Z012	24 V dc	Sensor Output	0.35 A max/point/ 1.2 A max/unit
BNI IOL-102-XXX-Z012, BNI IOL-104-XXX-Z012, BNI IOL-106-XXX-Z012, BNI IOL-302-XXX-Z012	24 V dc	Digital Input	30 mA max/point
BNI IOL-205-XXX-Z012 BNI IOL-206-XXX-Z012, BNI IOL-302-XXX-Z012	24 V dc	Digital Output	0.1 A/point Pilot Duty 0.4 A/point Resistive/General use 1.4 A or less per unit
BNI IOL-719-XXX-Z012	10 V max	Analog Input	20 mA max configurable

Cord Sizes

Communication/Power In cord assembly – Listed (CYJV/7) or R/C (CYJV2/8) cord assembly with threaded male A-coded M12 connector rated 24 V minimum, 2 A minimum.

R/C (AVLV2) marked or specified in UL style page as suitable for external interconnection 28 AWG minimum, 300 V minimum cord.

In/Out cord assembly – Listed (CYJV/7) or R/C (CYJV2/8) cord assembly with threaded male A-coded M12 connector rated 24 V minimum, 2 A minimum.

R/C (AVLV2) marked or specified in UL style page as suitable for external interconnection cord, rated 300 V minimum, 24 AWG minimum unless marked with maximum load current and overcurrent protection for the cord in accordance with the table below.

Marking is not required for cords and individual conductors used for Digital Input, Analog, and communication circuits only.

Cord conductor size, AWG	Overcurrent protection maximum ampere rating, Amps	Maximum load, Amps
14	12	9
16	8	8
18	5.6	5.6
20	5	4
22	3	2.4
24	2	1.6
26	1	0.8
28	0.8	0.6
30	0.5	0.4

Additional information can be found in the corresponding manual on our webpage <http://www.balluff.com>

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