	File	E319845
	Enclosure rating	Type 1
	Ambient temperature	50° C
	Supply from a Class 2 source.	

BNI IOL-XXX-XXX-K006-XXX

Customizing (optional)

C01 - Identification

Mechanical version

K006 - Material: plastic housing, bus connection and power supply: 1x M12x, external thread, I/O ports: 8 x M12x1, internal thread

Variants

000 - Standard version

002 - With IO-Link 1.1 extension port

S01 - Single-channel monitoring

Function

102 - 8 Digital Inputs

104 - 16 PNP Inputs

106 - 16 NPN Digital Inputs

302 - 16 Configurable Digital Inputs / Outputs

305 - 8 PNP Digital Inputs, 8 PNP Digital Outputs

311 - 16 NPN Digital Inputs, 16 NPN Digital Outputs

312 - 8 NPN Digital Inputs, 8 NPN Digital Outputs

709 - 8 digital inputs 0,15 A + 4 analog inputs 4 - 20 mA

710 - 8 digital inputs 0,15 A + 4 analog inputs 0 - 10 V


Communication protocol

IOL - IO-Link

Basic Type Designation

BNI - Balluff Network Interface

General information

	File	E319845
	Enclosure rating	Type 1
	Ambient temperature	50° C
	Supply from a Class 2 source.	

Attention:

Please clean only with dry cloth or cloth dampened only with water!

Ambient Temperature 60° C

for BNI IOL-106-XXX-K006, BNI IOL-311-XXX-K006, BNI IOL-312-XXX-K006

Power Ratings

Model	Nominal Rating Voltage	Type	Current Ratings
BNI IOL-XXX-XXX-K006-XXX	24 Vdc	Power Input	Class 2 (50 mA, maximum consumption 1.5 A including all output loads, 2.0 A for BNI IOL-106-XXX-K006, BNI IOL-311-XXX-K006, BNI IOL-312-XXX-K006)
BNI IOL-XXX-XXX-K006-XXX	24 Vdc	Power Output	1 A maximum
BNI IOL-XXX-XXX-K006-XXX	24 Vdc	Digital Input	30 mA max./point
BNI IOL-709-XXX-K006-XXX	--	Analog Input	4 – 20mA
BNI IOL-710-XXX-K006-XXX	0 – 10 V	Analog Input	--
BNI IOL-302-XXX-K006-XXX BNI IOL-305-XXX-K006-XXX	24 Vdc	Digital Output	0.35 A general use, 0.1 A pilot duty 1.4 A or less per unit
BNI IOL-311-XXX-K006-XXX BNI IOL-312-XXX-K006-XXX	24 Vdc	Digital Output	0.35 A general use, 0.1 A pilot duty 1.97 A or less per unit

Cord Sizes

Communication cord assembly – Listed or R/C (CYJV2) cord assembly with threaded male A-coded M12 connector rated 24 V minimum, 1 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 or R/C (CYJV2) cord assembly with threaded male A-coded M12 connector rated 24 V minimum, 1 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 table below.

Cord conductor size, AWG	Overcurrent protection maximum ampere rating, Amps	Maximum load, Amps
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>

Balluff GmbH	Schunwaldstrasse 9 73765 Neuhausen a.d.F. Germany	Tel. +49 7158 173-0 Fax +49 7158 5010	balluff@balluff.de
--------------	--	--	--------------------