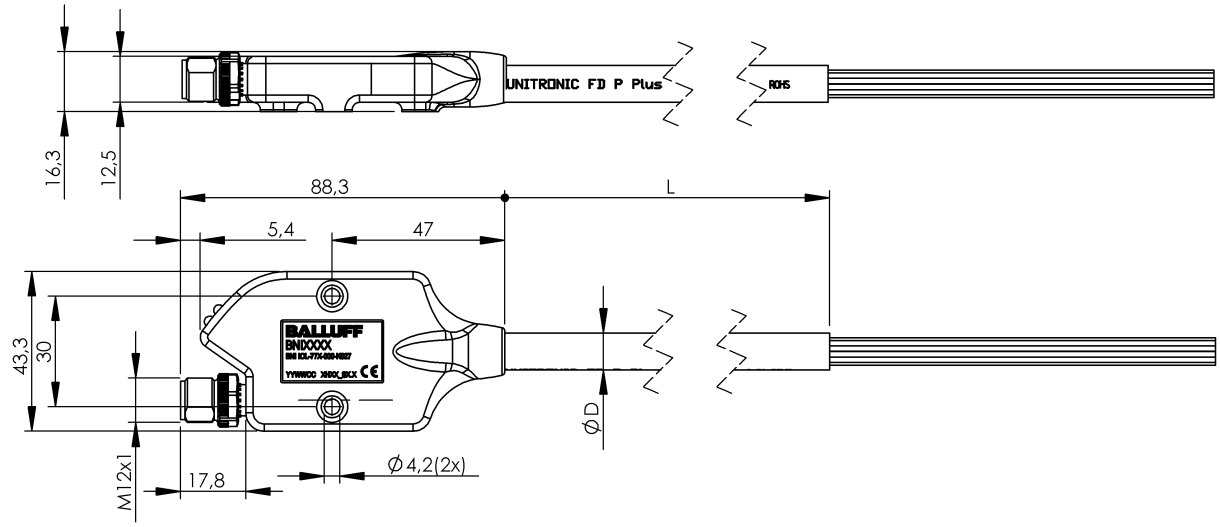
I/O modules

BNI IOL-771-000-K027
Order Code: BNI005M



Basic features

Approval/Conformity	CE WEEE
Scope of delivery	Short guide

Display/Operation

Actuator supply UA, indicator	LED green
IO-Link communication indicator	LED green
Module supply indicator	LED green
Sensor supply US indicator	LED green

Electrical connection

Cable diameter D	10 mm
Cable length L	0.5 m
Conductor cross-section	0.34 mm²
Connection (COM 1)	M12x1-Male, 5-pin, A-coded
Connection slots	open cable end-Leads
Connection type	0.50 m, PUR
Contact, surface protection	nickel plated 2 µm/gold plated 0.4 µm
Number of conductors	18

Electrical data

Configurable inputs/outputs	yes
Current consumption without load, max.	50 mA
Current sum UA, actuator	1.0 A, temperature-dependent
IO-Link function	Device
IO-Link ports, number	1
Operating voltage Ub	18...30.2 VDC
Rated operating voltage Ue DC	24 V

Environmental conditions

Ambient temperature	-5...55 °C
IP rating	IP54, to open cable end
Storage temperature	-25...70 °C

Functional safety

MTTF (40 °C)	167 a

IO-Link

IO-Link Profil IDs	N/A

Interface

Cycle time min.	4 ms
Digital inputs	16x PNP, Type 3
Digital outputs	16x PNP
IO-Link version	1.1
Interface	IO-Link 1.1
Process data IN	2 bytes
Process data OUT	2 bytes
Process data cycle min.	4 ms
Transfer rate	COM2 (38.4 kBaud)

Material

Housing material	PA
Housing shield	no
Material jacket	PUR

Mechanical data

Dimension	43.3 x 16.3 x 88.3 mm
Weight	140 g

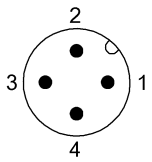
Remarks

See short guide

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



IO-Link

PIN 1: +24V, US

PIN 2: +24V, UA

PIN 3: GND

PIN 4: C/Q, IO-Link DC-Channel

Wiring Diagrams (Schematic)

Requirements	Wire color
0 V, GND	Black
Input 1 / Output 1	Purple
Input 2 / Output 2	White
Input 3 / Output 3	Brown
Input 4 / Output 4	Green
Input 5 / Output 5	Yellow
Input 6 / Output 6	Gray
Input 7 / Output 7	Rose
Input 8 / Output 8	Blue
Input 9 / Output 9	Red / Blue
Input 10 / Output 10	Gray / Rose
Input 11 / Output 11	White / Gray
Input 12 / Output 12	Gray / Brown
Input 13 / Output 13	White / Green
Input 14 / Output 14	Brown / Green
Input 15 / Output 15	Yellow / Brown
Input 16 / Output 16	White / Yellow
US Supply +24 V	Red