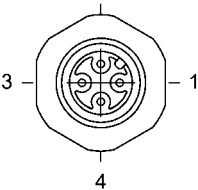
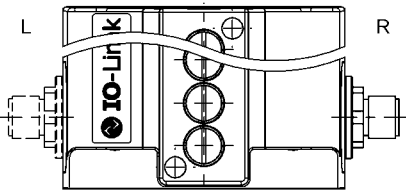


Connector Drawings

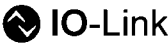


View of connector side

Wiring Diagrams



PIN 1: +24V
PIN 3: 0V
PIN 4: IO-Link



Mechanical Cam Switches
BNS 819-B03-R08-46-12-S4R-I
Order Code: BNS04FH

BALLUFF

Help Views

BNS with IO-Link from 1 up to 16 positions

Frame type: 2.1
Process data length: 1 Byte

Process data image:

Process data: ≤ 8 positions							
Byte 0							
7	6	5	4	3	2	1	0
NO / NC 8	NO / NC 7	NO / NC 6	NO / NC 5	NO / NC 4	NO / NC 3	NO / NC 2	NO / NC 1
NO / NC 8	NO / NC 7	NO / NC 6	NO / NC 5	NO / NC 4	NO / NC 3	NO / NC 2	NO / NC 1

Process data: > 8 positions															
Byte 0								Byte 1							
7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
NO / NC 16	NO / NC 15	NO / NC 14	NO / NC 13	NO / NC 12	NO / NC 11	NO / NC 10	NO / NC 9	NO / NC 8	NO / NC 7	NO / NC 6	NO / NC 5	NO / NC 4	NO / NC 3	NO / NC 2	NO / NC 1
NO / NC 16	NO / NC 15	NO / NC 14	NO / NC 13	NO / NC 12	NO / NC 11	NO / NC 10	NO / NC 9	NO / NC 8	NO / NC 7	NO / NC 6	NO / NC 5	NO / NC 4	NO / NC 3	NO / NC 2	NO / NC 1

On-request data:

	DPP	SPDU		Object name	Length	Range	Default value
	Index	Index	Sub-Index				
Identification Data	0x07			Vendor ID	2 Byte	read only	0x0378
	0x08			Decice ID	3 Byte		0x01010X X = No. of positions
	0x09						
	0x0A						
	0x0B						
		0x10	0	Vendor name	7 Byte		BALLUFF
		0x11	0	Vendor text	15 Byte		www.balluff.com
		0x12	0	Product name	31 Byte		BNS 819-xxx-xxx-xx-S4x-I
		0x13	0	Product ID	7 Byte		BNSxxxx
		0x14	0	Product text	10 / 11 Byte		BNS xx-fach
		0x16	0	Hardware Revision	2 Byte		
		0x17	0	Firmware Revision	2 Byte		
Programmable Data		0x40	0	NO / NC	≤ 8 positions = 1 Byte	0x00 - (2^positions)-1 (1 Bit = 1 position)	"0"
	> 8 positions = 2 Byte						
			1 - 16		1 Byte	"0" Not inverted "1" inverted	

Errors:

Class			Error Code	Additional Code
Mode	Type	Instance		
single shot	Error	AL	Device application error	Index not available
0x40	0x30	0x03	0x80	0x11
0x73			0x80	0x11
single shot	Error	AL	Device application error	Sub-Index not available
0x40	0x30	0x03	0x80	0x12
0x73			0x80	0x12

Input data: No input data available