Блоки управляющих устройств серии BN

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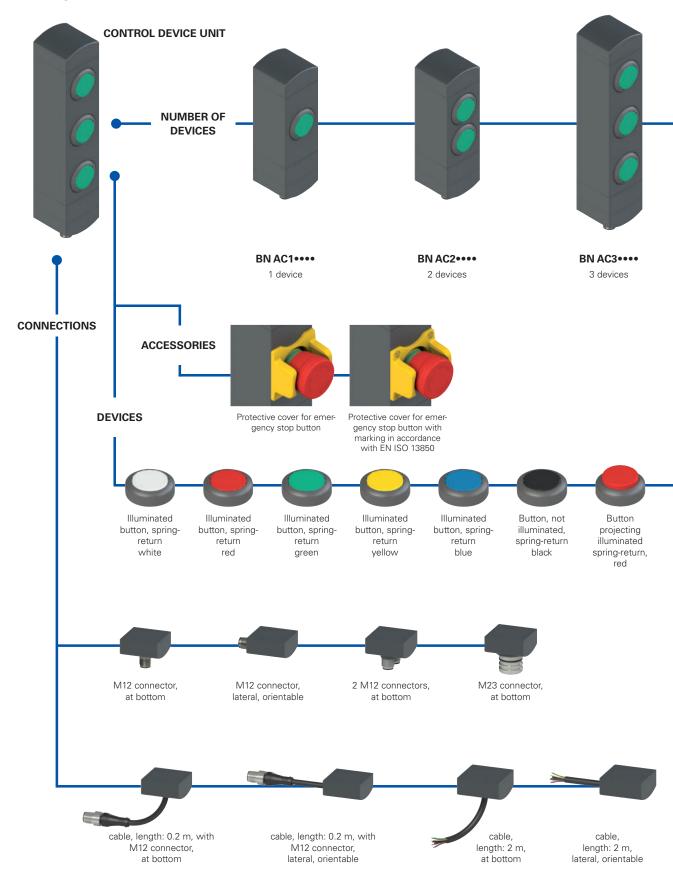
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эл.почта: poz@nt-rt.ru || сайт: https://pizzato.nt-rt.ru/

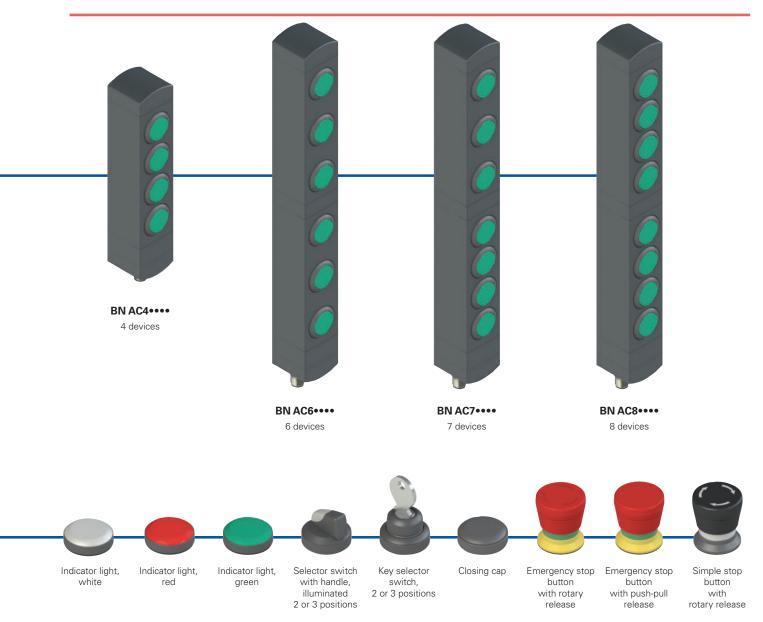
Selection diagram





product option

Sold separately as accessory



Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

BN AC3ZA01

Nur	Number of devices		
1	1 device		
2	2 devices		
3	3 devices		
4	4 devices		
6	6 devices		
7	7 devices		
8	8 devices		

Button configuration		
A01	A01 configuration	
A02	A02 configuration	
A03	A03 configuration	
	other configurations on request	



Main features

- Modular control device unit for 1 to 8 devices
- Rotatable fixing position
- Flush-mounted control devices
- Compact dimensions, minimal housing width
- Numerous control devices available

Quality marks:







UL approval:

E131787

Features approved by UL

Electrical ratings: 24 Vdc Class 2, 0,1 A Model BN with base module dimensions 40 mm by 38.5 mm by

Input Supplied by 24 Vdc, Class 2 Source or limited voltage limited energy, 0,096 A max. (Maximum eight leds).

Output 24 Vac/dc "Class 2" 0.25 A Pilot Duty (Maximum eight Actuators, with maximum twelve contacts, NO or NC or both) or 0.18 A Pilot Duty (Maximum eight Actuators, with maximum sixteen contacts, NO or NC or both)

Model BN with base module dimensions 40 mm by 38.5 mm by 82.1 mm:

Input Supplied by 24 Vdc, Class 2 Source or limited voltage limited energy, 0,048 A max. (Maximum four leds).
Output 24 Vac/dc "Class 2" 0.25 A Pilot Duty (Maximum four Actuators, with maximum eight contacts, NO or NC or both) or 0.18 A Pilot Duty (Maximum four Actuators, with maximum eight contacts, NO or NC or both)

Environmental ratings: Type 1

Technical data

Housing made of glass fibre reinforced technopolymer, self-extinguishing and shock-proof. Versions with integrated cable 12 x 0.14 mm², length 2 m, other lengths from 0.5 m to 10 m on request.

Versions with integrated M23 or M12 stainless steel connector.

Versions with 2 integrated M12 stainless steel connectors.

Versions with 0.2 m cable and M12 connector, other lengths from 0.1 ... 3 m on request. Protection degree: IP65 acc. to EN 60529

General data

-25°C ... +70°C Ambient temperature:

Fixing screws for the housing: 2xM5, tightening torque 3 Nm Fixing screws for turnable modules: Tightening torque of 0.8 ... 1.2 Nm

Mechanical endurance:

Spring-return button: 1 million operating cycles Emergency stop button: 50,000 operating cycles Selector switch: 300,000 operating cycles Key selector switch: 50,000 operating cycles

30,000 operating cycles including remo-

val of the key

Safety parameter B_{10D}: 100,000 (emergency stop button)

Actuating force:

Spring-return button: 4 N min 100 N max Emergency stop button: 20 N min 100 N max. Selector switch: 0.1 Nm min 1.5 Nm max. Key selector switch: 0.1 Nm min 1.3 Nm max.

Electrical data of the devices

24 Vdc ±10% SELV/PELV Rated operating voltage U_a:

Thermal current I_{th}: 1 A 32 Vac/dc Rated insulation voltage U: Rated impulse withstand voltage U_{imp}: 15 kV Material of the contacts: silver contacts

Self-cleaning contacts with double interruption Contact type:

Utilization category of the contact block: DC-13; $U_a = 24 \text{ V}$, $I_a = 0.55 \text{ A}$ LED supply voltage: 24 Vdc ±15%

12 mA Single LED supply current:

M12 connector electrical data

32 Vac/dc Max. operating voltage: Max. operating current: 1.5 A max.

M23 connector electrical data

Max. operating voltage: 32 Vac/dc Max. operating current: 3 A max.

In compliance with standards:

IEC 60947-5-1, IEC 60947-5-5, EN ISO 13850, UL 508, CSA C22.2 No. 14.

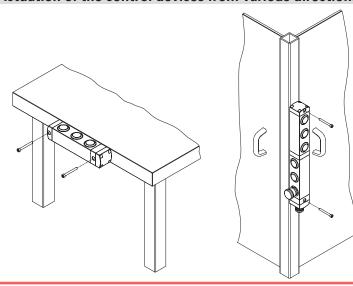
Compliance with the requirements of:

Machinery Directive 2006/42/EC, Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU.

Installation for safety applications:

Always connect the safety circuit to the NC contacts (normally closed contacts) as stated in standard EN 60947-5-1.

Actuation of the control devices from various directions



Thanks to the design with turnable modules, the control device units of the BN series offer the user many different options for fixing to the machine.

The orientation of the control devices can be selected independent of the fastening.

With the configurations for 6, 7 and 8 devices, the upper and lower part can be oriented independent of one another. This is especially useful if it should be possible to achieve a command state from two different sides of the machine. In these cases, a single device and single wiring harness can be used, thereby saving time and money.

General data



The new modular control device units of the BN series from Pizzato Elettrica can be combined perfectly with the RFID safety switches with lock of the NS series. Machine manufacturers who already use these products thereby have the possibility to attach a control device unit directly next to the safety switch that is identical in shape and dimensions.

The control device units of the BN series are available in configurations with 1 to 8 devices.

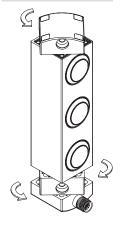
The unique design with individually turnable modules allows the user to select from a number of combinations. He receives a very versatile product that is immediately ready for use.

Compatibility with NS series switches



The control device units of the BN series have the same dimensions as the RFID safety switches with lock of the NS series. When mounted directly to the side of the switch, one obtains an integrated safety device whose components are made of the same material and have identical dimensions.

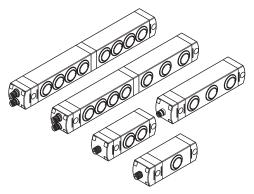
Turnable and non-detachable modules



During installation, the fixing modules can be turned on the top and bottom of the device to enable variable orientation of the control devices

Operation is very simple: after loosening the fixing screws, the device body can be turned in steps of 90° and fixed in the desired position. Another advantage for the installer is that the fixing modules cannot be detached from the device body. Disassembly of the individual parts is not necessary and there is no risk of losing parts or reassembling incorrectly.

Individually and freely configurable



The control device unit is available in various configurations: for standard applications there are configurations with 1 to 4 devices, while configurations with 6, 7 or 8 devices are available for more complex applications that allow a larger number of control and signalling devices to be attached at the same location for the user.

Minimal dimensions

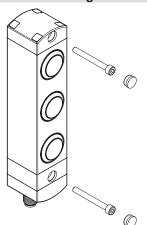


One special feature of the control device units of the BN series is the slim thickness of just 40 mm

The control devices are embedded in the housing of the unit and protrude only slightly out of the front.

This protects the control devices from unintended impacts, thereby increasing the service life of the devices and, at the same time, giving the devices an attractive design, making them predestined for use on modern machines in which this aspect is also given special consideration.

Protection against tampering



Each control device unit of the BN series is supplied complete with snap-on protection caps to be applied on the holes of the fixing screws. Not only do the caps prevent deposits of dirt from accumulating and simplify cleaning, they also prevent access to the fixing screws of the device, thereby offering increased protection against tampering.

Laser markable lenses



With all product configurations, a number of devices can be installed that can also be illuminated via LEDs integrated in the device.

The buttons are equipped with lenses that can be marked by laser for a resistant, indelible engraving. This allows you to customize the lenses with a wide range of text and symbols. For a complete

list of available engravings, please refer to the tables on pp. 165-168.

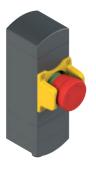
Protection guard for emergency stop button



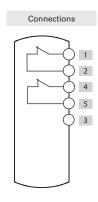
The mushroom-shaped emergency stop button can be combined with a yellow protection guard that serves to protect the device from shocks. The protection guard can also be provided with a laser marking in accordance with EN ISO 13850.

Examples of available configurations

BN AC1ZA12



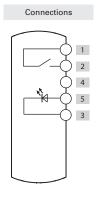
	Description	Colour	Diagram
Device 1	Emergency stop button with rotary release 2NC, with laser-marked protection guard	red	1 2 4 5
Connector	M12, 5-pole at bottom	/	



BN AC1ZA02



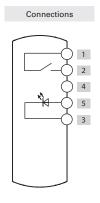
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	1 — 2 5 — 3
Connector	M12, 5-pole, at bottom	/	



BN AC1ZA03



	Description	Colour	Diagram
Device 1	Illuminated selector switch with handle with two positions 1NO	black	1 — 2 5 — 3
Connector	M12, 5-pole, at bottom	/	

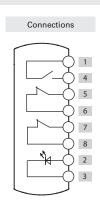




BN AC2ZA26



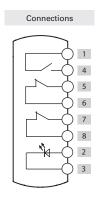
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	1 4 2 LED 3
Device 2	Emergency stop button with rotary release 2NC, with protection guard	red	5 7 6 8
Connector	M12, 8-pole, at bottom	/	



BN AC2ZA02



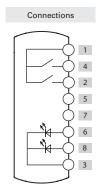
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	blue	1 — 4 2 — 3
Device 2	Emergency stop button with rotary release 2NC	red	5 — 6 7 — 8
Connector	M12, 8-pole, at bottom	/	



BN AC2ZA03



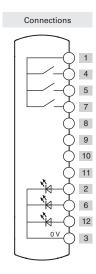
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	1 — 4 6 — 3
Device 2	Illuminated button, spring-return 1NO	blue	1 — 2 8 — 3
Connector	M12, 8-pole, at bottom	/	



BN AC3ZA01



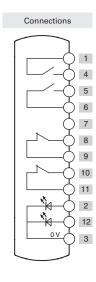
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	1 — 4 2 — 3
Device 2	Illuminated button, spring-return 1NO	blue	1 — 5 6 — 3
Device 3	Illuminated button, spring-return 1NO	yellow	1 — 7 12 — 3
Connector	M12, 12-pole, at bottom	/	



BN AC3ZB59



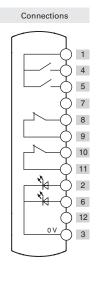
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	1 — 4 2 — 3
Device 2	Illuminated button, spring-return 1NO	blue	5 — 6 12 — 3
Device 3	Emergency stop button with rotary release 2NC, with laser-marked protection guard	red	8 9
Connector	M12, 12-pole, at bottom	/	



BN AC3ZA03



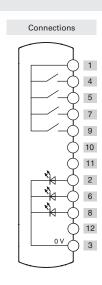
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	1 — 4 2 — 3
Device 2	Illuminated button, spring-return 1NO	yellow	1 — 5 6 — 3
Device 3	Emergency stop button with rotary release 2NC	red	8 9
Connector	M12, 12-pole, at bottom	/	



BN AC4ZA01



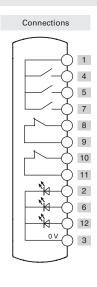
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	green	1 — 4 2 — 3
Device 2	Illuminated button, spring-return 1NO	red	1 5 6 3
Device 3	Illuminated button, spring-return 1NO	white	1 — 7 8 — 3
Device 4	Two-position key selector switch 1NO	black	19
Connector	M12, 12-pole, at bottom	/	



BN AC4ZB19



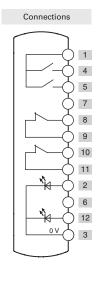
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	1 — 4 2 — 3
Device 2	Illuminated button, spring-return 1NO	blue	1 — 5 6 — 3
Device 3	Illuminated button, spring-return 1NO	yellow	1 — 7 12 — 3
Device 4	Emergency stop button with rotary release 2NC, with protection guard	red	8 — 9 10 — 11
Connector	M12, 12-pole, at bottom	/	



BN AC4ZA03



	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	1 — 4 2 — 3
Device 2	Spring-return button 1NO	black	1 — 5
Device 3	Indicator light	green	12 3
Device 4	Emergency stop button with rotary release 2NC	red	8 9 10 11
Connector	M23, 12-pole, at bottom	/	

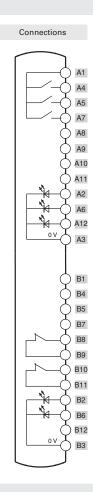


For pin assignments of the connectors, see page 156

BN AC6ZA40



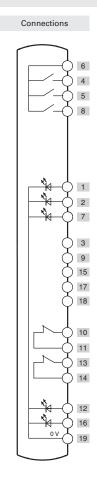
	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	A1 — A4 A2 — A3
Device 2	Illuminated button, spring-return 1NO	blue	A1 — A5 A6 — A3
Device 3	Illuminated button, spring-return 1NO	yellow	A1 — A7 A12 — A3
Device 4	Indicator light	green	B2 B3
Device 5	Indicator light	white	B6 B3
Device 6	Emergency stop button with rotary release 2NC, with protection guard	red	B8 B10 B9
Connector	Two M12, 12-pole, at bottom	/	A B



BN AC6ZA02



	Description	Colour	Diagram
Device 1	Illuminated button, spring-return 1NO	white	6 — 4 1 — 19
Device 2	Illuminated button, spring-return 1NO	blue	6 — 5 2 — 19
Device 3	Illuminated button, spring-return 1NO	yellow	6 — 8 7 — 19
Device 4	Indicator light	green	12 19
Device 5	Indicator light	white	16 19
Device 6	Emergency stop button with rotary release 2NC	red	10 11 11 13
Connector	M23, 19-pole, at bottom	/	

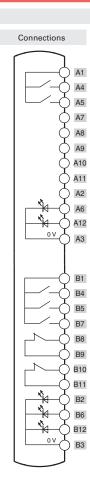


For pin assignments of the connectors, see page 156

BN AC7ZA07



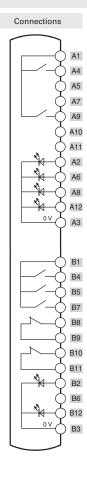
	Description	Colour	Diagram
Device 1	Two-position key selector switch 1NO	black	A1 A4
Device 2	Illuminated selector switch with handle with two positions 1NO	black	A1 — A5 A6 — A3
Device 3	Indicator light	green	A12 A3
Device 4	Illuminated button, spring-return 1NO	white	B1 — B4 B2 — B3
Device 5	Illuminated button, spring-return 1NO	blue	B1 — B5 B6 — B3
Device 6	Illuminated button, spring-return 1NO	yellow	B1 — B7 B12 — B3
Device 7	Emergency stop button with rotary release 2NC, with protection guard	red	B8 B10 B9
Connector	Two M12, 12-pole, at bottom	/	A B



BN AC8ZA01



	Description	Colour	Diagram
Device 1	Illuminated selector switch with handle with two positions 1NO	black	A1 A4 A2 A3
Device 2	Indicator light	red	A6 A3
Device 3	Indicator light	green	A8 A3
Device 4	Illuminated button, spring-return 1NO	yellow	A1 ————————————————————————————————————
Device 5	Illuminated button, spring-return 1NO	white	B1 — B4 B2 — B3
Device 6	Spring-return button 1NO	black	B1 — B5
Device 7	Illuminated button, spring-return 1NO	blue	B1 — B7 B12 — B3
Device 8	Emergency stop button with rotary release 2NC	red	B8 B10 B9
Connector	Two M12, 12-pole, at bottom	/	A B



For pin assignments of the connectors, see page 156

BN series control device units

Spare devices available

	Description	Colour	Article	Combinable with contacts	Protrusion (x) mm
0	Illuminated button, spring-return	White Red Green Yellow Blue	VN NG-AC27121 VN NG-AC27123 VN NG-AC27124 VN NG-AC27125 VN NG-AC27126	1NO (1NC) (2NO) (1NO+1NC)	3
	Non-illuminated button, spring-return	Black	VN NG-AC27122	1NO (1NC) (2NO) (1NO+1NC)	3
	Non-laser-markable, illuminated, projecting push button ⁽²⁾	Red	VN NG-AC26018	1NO (1NC) (2NO) (1NO+1NC)	6,1
	Indicator light	Red Yellow Green Blue White	VN NG-AC26060 VN NG-AC26061 VN NG-AC26062 VN NG-AC26063 VN NG-AC26064	1	2,7
	Emergency stop button acc. to. EN ISO 13850 Rotary release Push-pull release	Red Red	VN NG-AC26052 VN NG-AC26055	2NC	26,4
	EN ISO 13850-compliant emergency pushbutton for 2NC+1NO pulse contacts (3)	Red	VN NG-AC26056	2NC + 1NO pulse	26,4
	Illuminated emergency stop button acc. to. EN ISO 13850 Rotary release Push-pull release	Red Red	VN NG-AC26051 VN NG-AC26054	2NC	26,4
	Simple stop button Rotary release Push-pull release	Black Black	VN NG-AC26053 VN NG-AC26057	2NC	26,4
	Illuminated selector switch with handle with 2 or 3 positions and transparent lens for LED	BlackBlackBlackBlack	VN NG-AC26033 VN NG-AC26030 VN NG-AC26034 VN NG-AC26031	1NO (1NC) (2NO) (1NO+1NC)	16,8
	Key selector switch, 2 or 3 positions	BlackBlackBlack	VN NG-AC26043 VN NG-AC26040 VN NG-AC26041	1NO (1NC) (2NO) (1NO+1NC)	39 (a) 14 (b)
	Closing cap	Black	VN NG-AC26020	/	2,7
	Fixing key	Black	VN NG-AC26080	/	/
Lamanda	Maintained Spring-return & Key ext		(a) with key	(b) without key	

Maintained Spring-return & Key extraction position Legend: (a) with key (b) without key

To order buttons with marking:
add the marking code indicated in the tables on pp. 165-168 to the article codes.
Example: Black spring-return button with "O" engraving.
VN NG-AC27122 → VN NG-AC27122-L1

⁽¹⁾ The contacts in brackets are on request. Contact our technical department to verify the effective feasibility of the control panel with the chosen combination of control devices. ⁽²⁾ The projecting buttons are not laser markable. ⁽³⁾ The pulse NO contact is activated only when the emergency button reaches the bottom of the stroke. The NO contact signal should be detected by analyzing the rising edge.



Technical data of the control devices

General data

Protection degree: IP65 acc. to EN 60529

Mechanical endurance:

Spring-return button: 1 million operating cycles
Emergency stop button: 50,000 operating cycles
Selector switch: 300,000 operating cycles
Key selector switch: 50,000 operating cycles

30,000 operating cycles including removal

of the key

Safety parameter B_{10D}: 100,000 (emergency stop button)

Actuating force

Spring-return button: 4 N min 100 N max. Emergency stop button: 20 N min 100 N max. Selector switch: 0.1 Nm min 1.5 Nm max. 1.5 Nm max. Key selector switch: 0.1 Nm min 1.3 Nm max.

Contact blocks of the control devices

Material of the contacts: silver contacts

Contact type: Self-cleaning contacts with double inter-

ruption

Electrical data:

Thermal current I_{th} : 1 A Rated insulation voltage U_i : 32 Vac/dc Rated impulse withstand voltage U_{imp} : 1.5 kV LED supply voltage: 24 Vdc \pm 15% LED supply current: 10 mA per LED

Utilization category of the contact block:

Direct current: DC13

U_e (V) 24 I_e (A) 0.55

Signalling contact with spring return:

Direct current: DC13 U_e (V) 24 I_e (mA) 10

In compliance with standards:

IEC 60947-5-1, IEC 60947-5-5, EN ISO 13850

⚠ Installation for safety applications:

Always connect the safety circuit to the ${\bf NC}$ ${\bf contacts}$ (normally closed

contacts) as stated in standard EN 60947-5-1.

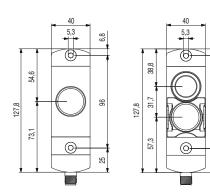
Dimensional drawings

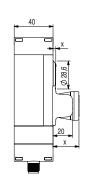
BN AC1

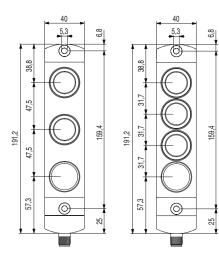
BN AC2••••

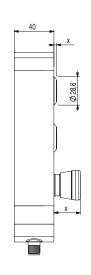
BN AC3

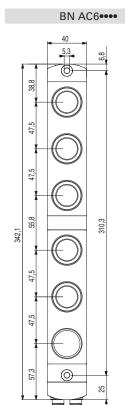
BN AC4

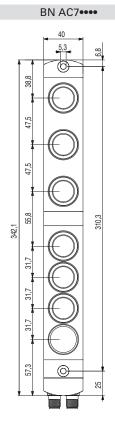


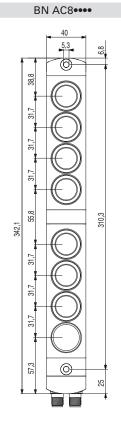


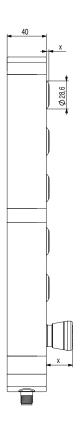












Output type

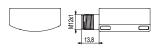
M12 connector, at bottom

M12 connector, lateral Two M12 connectors, at bottom

M23 connector, at bottom















All values in the drawings are in mm

Electrical connections

M12 connector, 5-pole





M12 connector, 8-pole

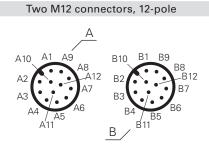
Pin No.	Cable colour
1	brown
2	blue
3	white
4	green
5	pink
6	yellow

Cable

Pin No.	Cable colour
7	black
8	grey
9	red
10	purple
11	grey-pink
12	red-blue

M12 connector, 12-pole





M23 connector, 12-pole

M23 connector, 19-pole





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