

Pizzato Elettrica S.r.l.

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NA B112LE-DN2 Article:

Description: Modular prewired switch with metal revolving lever with adjustable stainless steel rod diam.3x125 Sheet: 32170-0-en-2.1.0 Date: 09/06/2024

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Housing:

Metal housing, 20 mm fixing points

Protection degree: IP67 acc. to EN 60529, IP69K acc. to ISO 20653 (Protect the cables

from direct high-pressure and high-temperature jets)

General data:

Corrosion resistance in saline mist: ≥ 300 hours in NSS according to ISO 9227

Max actuation frequency: 3600 operating cycles/hour

Mechanical endurance: 20 million operating cycles (5 million operating cycles with contact

block C ••)

B10D: 40,000,000 for NC contacts

Mechanical interlock, not coded: type 1 according to EN ISO 14119

Contact block characteristics:

Con	tact block	Contact diagram	Contact design	Operation type	Positive opening ⊕	Contact type	Captive screws	Terminals with finger protection	Gold-plated contacts 1 µm
B11	1NO+1NC	ÝŤ	Zb	snap action	yes	Double interruption	1	/	yes

Contact block travel diagrams:



- Switch pressed
- Switch released
- Reset engagement travel
- Mechanical switching point

Positive contact opening in conformity with standards:

Device without positive opening. If installed individually, not suitable for safety applications.

Device screw tightening torques:

Head screws: 0.5 ... 0.7 Nm 0.8 ... 1.2 Nm Lever screw: 0.3 ... 0.6 Nm Connector screw: M4 fixing screws, body: 2 ... 3 Nm

Activating forces:

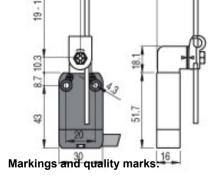
Min.: 0,07 Nm

In conformity with standards:

IEC 60947-5-1, EN 60947-5-1, IEC 60204-1, EN 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN 60529, EN IEC 63000, ISO 20653, UL 508, CSA C22.2 No.14.

In conformity with requirements requested by:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU.



Ø3x125

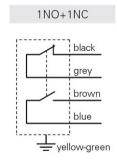
Electrical data:

Rated impulse withstand voltage (Uimp): 4 kV Conditional short circuit current: 1000 A according to EN 60947-5-1 Pollution degree: 3

Important: Switch off the circuit voltage before disconnecting the connector from the switch. The connector is not suitable for separation of electrical loads. According to EN 60204-1, 2NO+2NC versions with 8-pin M12 and AMP connector can be used only in PELV circuits.

EHL C€ 2K

Internal connections:





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Utilization temperatures and electrical data:

	Connec	ction type	Output with cable									Output with M12 connector	
	Contact blocks		2 contacts				3 contacts 4		4 co	contacts 2 contacts		3 or 4 contacts	2 contacts
	Cable or connector type		Е	N	Н	R	N	Н	N	R	M12 connec- tor, 5-pole	M12 connec- tor, 8-pole	AMP Super- seal
	Conductors		5x0.75 mm ²	5x0.75 mm²	5x0.75 mm²	5x0.5mm²	7x0.5 mm ²	7x0.5 mm²	9x0.34 mm²	9x0.5 mm²	5x0.25 mm²	8x0.25 mm ²	1.5 con- nector
	Application field		General	General	General, mobile instal- lation	Rail	General	General, mobile instal- lation	General	Rail	General	General	General
,	In compliance with standards		H05VV-F	H05VV5-F	05EQ-H	EN50306-4 1E-300V 5G0.5 mm² MM-90 EN 50306-4 EN 45545	03VV-F	03E7Q-H	03VV-F	EN50306-4 1P-300V- 9G0.5 mm ² MM-90 EN 50306-4 EN 45545	03VV-H	03VV-H	/
	Sheath		PVC	PVC OIL RESISTANT	PUR HALOGEN FREE	1	PVC OIL RESISTANT	PUR HALOGEN FREE	PVC OIL RESISTANT	1	PVC OIL RESISTANT	PVC OIL RESISTANT	1
Cable features	Self-extinguishing		IEC 60332-1-2	IEC 60332-1-2 UL 758:FT1 CEI 20-22 II	IEC 60332-1-2 UL 758:FT1	IEC 60332-1 EN 50305 EN 50306-1	IEC 60332-1-2 UL 758:FT1 CEI 20-22 II	IEC 60332-1-2 UL 758:FT1	IEC 60332-1-2 UL 758:FT1 CEI 20-22 II	IEC 60332-1 EN 50305 EN 50306-1	IEC 60332-1-2 CEI 20-22 II UL 758:FT1	IEC 60332-1-2 CEI 20-22 II UL 758:FT1	1
able	Oil resistant		/	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	1	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	1	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	1
S	Max. speed		1	1	300 m/min	/	1	300 m/min	/	1	50 m/min	50 m/min	1
	Max. acceleration		1	1	30 m/s ²	/	/	30 m/s ²	/	1	5 m/s ²	5 m/s ²	1
	Minimum bending radius		80 mm	80 mm	80 mm	60 mm	108 mm	80 mm	108 mm	65 mm	75 mm	90 mm	1
,	Outer diameter		8 mm	8 mm	8 mm	6 mm	7 mm	7 mm	7 mm	6.5 mm	6 mm	6 mm	1
	End stripped		80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	1	1	/
	Copper conductors IEC 60228		Class 5	Class 5	Class 6	Class 5	Class 5	Class 6	Class 5	Class 5	Class 6	Class 6	1
	Engraving		Standard	6268	6280	Standard	6274	6282	6278	Standard	6267	6275	1
sable	Cabl	le, fixed installation	-15°C +60°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	/
with canda	Cable	e, flexible installation	+5°C +60°C	-5°C +80°C	-25°C +80°C	-25°C +80°C	-5°C +80°C	-25°C +80°C	-5°C +80°C	-25°C +80°C	-15°C +80°C	-15°C +80°C	/
ture	Cable	e, mobile installation	1	1	-25°C +80°C	/	1	-25°C +80°C	1	1	-15°C +80°C	-15°C +80°C	/
mpera (T6)	Cable, fixed installation		/	1	-40°C +80°C	-40°C +80°C	1	-40°C +80°C	1	-40°C +80°C	1	/	1
Ambient temperature with cable extended (T6) standard	Cable	e, flexible installation	1	/	-40°C +80°C	-40°C +80°C	1	-40°C +80°C	1	-40°C +80°C	1	/	1
Ambi	Cable, mobile installation		1	1	-40°C +80°C	1	1	-40°C +80°C	1	1	1	1	1
	Thermal current Ith		10 A	10 A	10 A	6 A	6 A	6 A	3 A	4 A	4 A	2 A	10 A
	Rated insulation voltage Ui		250 Vac	250 Vac	250 Vac	250 Vac	250 Vac	250 Vac	250 Vac	250 Vac	250 Vac 300 Vdc	30 Vac 36 Vdc	30 Vac
data	Protection against short circuits (fuse)		10 A 500 V type gG	10 A 500 V type gG	10 A 500 V type gG	6 A 500 V type gG	6 A 500 V type gG	6 A 500 V type gG	3 A 500 V type gG	4 A 500 V type gG	4 A 500 V type gG	2 A 500V type gG	10 A 500 V type gG
cal	E >	24 V	2 A	2 A	2 A	2 A	2 A	2 A	2 A	2 A	2 A	2 A	2 A
Electrical data	Utilization category DC13	125 V	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	/	/
Ш }		250 V	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A	1	/
	Utilization category AC15	24 V	4 A	4 A	4 A	4 A	4 A	4 A	3 A	4 A	4 A	2 A	4 A
		120 V	4 A	4 A	4 A	4 A	4 A	4 A	3 A	4 A	4 A	/	/
		250 V	4 A	4 A	4 A	4 A	4 A	4 A	3 A	4 A	4 A	/	/
	Approvals		CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus EAC	CE cULU



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Characteristics approved by IMQ

Rated insulation voltage (Ui): 250 Vac

Conventional free air thermal current (Ith): 10 A (1-2 contacts) / 6 A (2-3 contacts)

4 A (4 contacts or 5-pin M12 connector)

Protection against short circuits (fuse): 10 A (1-2 contacts) / 6 A (2-3 contacts)

/ 4 A (4 contacts or 5-pin M12 connector), gG type Rated impulse withstand voltage (Uimp): 4 kV Protection degree of the housing: IP67 / IP69K

MA terminals (saddle clamps)

Pollution degree: 3

Utilization category: AC15 / DC13 (with connector)

Operating voltage (Ue): 250 Vac (50 Hz) / 24 Vdc (with connector)

Operating current (le): 3 A / 2 A (with connector)

Forms of the contact element: X, Y, X+Y, X+X, Y+Y, Y+Y+X, X+X+Y, X+X+Y+Y, Zb Positive opening of contacts on contact blocks B01, B11, B02, B12, B21, B22, G01, G11, G02, G12, G21, G22, L01, L11, L02, L12, L21, L22, H01, H11, H02, H12, H21, H22

In conformity with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

Characteristics approved by UL

Electrical Ratings:

R300 pilot duty (28 VA, 125 250 Vdc)

B300 pilot duty (360 VA, 120 240 Vac) (1 cont.)

B300 pilot duty (360 VA, 120 240 Vac) (2 - 3 cont. without connector)

C300 pilot duty (180 VA, 120 240 Vac) (4 cont.)

Environmental Ratings:

Types 1, 4X, 6, 12, 13

Types 1, 4X "indoor use only" (1 - 2 cont. with "E" type cable)

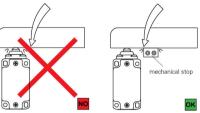
Screws torque of the detachable connector housing nominal are 0.3 ÷

Mechanical stop

Acc. to EN ISO 14119 paragraph 5.2 "the position sensors must not be used as mechanical stop".

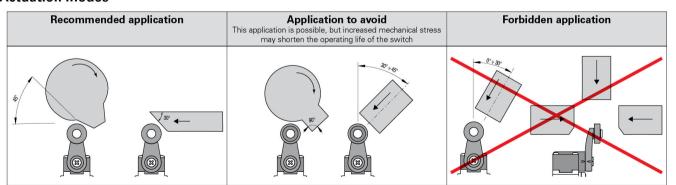


The actuator must not exceed the max. travel as indicated in the travel diagrams.



The guard must not use the switch head as a mechanical stop.

Actuation modes





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This device does not feature positive opening and therefore cannot be used individually for safety functions.