Relay Terminal Block (4/16/32-point)

ABS Series

CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Suitable for operating various loads using output signal of PLC
- Easily check of operation status with high luminance LED which turns on with input signals
- Available to select from various kinds of relay according to the voltage and current of each load
- DIN rail mount and screw mount methods

Ordering Information

This is only for reference, the actual product does not support all combinations.
For selecting the specified model, follow the Autonics website.

ABS	-	❶	❷	❸	-	❹	N

❶ Connector type
S: Screw
H: Hirose connector

❷ Number of relay
04: 4-point
16: 16-point
32: 32-point

❸ Relay type
TN: TAKAMISAWA(Fujitsu) NYP
PA: MATSUSHITA(Panasonic) PA

❹ Input logic
C: COM None
N: NPN (+COM)
P: PNP (-COM)

Product Components

- Product
- Instruction manual
- Two Way Ejector
- 4-point model: 4-pin 7.62 mm pitch jumper bar (JB-7.62-04)
  16-point model: 8-pin 7.62 mm pitch jumper bar (JB-7.62-08)

Specifications

Model	ABS-S04□-CN	ABS-H16□-□	ABS-H32□-□
Applied relay 01)	PA: APAN3124 [MATSUSHITA (Panasonic)] / TN: NYP24W-K [TAKAMISAWA (Fujitsu)]		
Output method	1a	1a	1a
Power supply	≤ 24 VDC⎓ ±10 %	≤ 24 VDC⎓ ±10 %	≤ 24 VDC⎓ ±10 %
Current consumption	PA: ≤ 8 mA 02) TN: ≤ 8.5 mA 02)	PA: ≤ 8 mA 02) or ≤ 13 mA 03) TN: ≤ 8.5 mA 02) or ≤ 13.5 mA 03)	
Rated load voltage & current 04) 05)	250 VAC~ 3A, 30 VDC⎓ 3A	250 VAC~ 3A, 30 VDC⎓ 3A	250 VAC~ 2A, 30 VDC⎓ 2A
No. of connector pins	-	20	40
Connector for controller side	-	20-pin Hirose (HIF3BA-20PA-2.54DSA)	40-pin Hirose (HIF3BA-40PA-2.54DSA)
No. of relay points	4	16	32 (8점/1COM)
Terminal type	Screw	Screw	Screw
Terminal pitch	7.62 mm	7.62 mm	7.62 mm
Indicator	Operation indicator: blue	Power indicator: red, operating and disconnection indicator: blue	Power indicator: red, operating and disconnection indicator: blue
Varistor	None	None	None
Input logic	-	NPN / PNP model	NPN / PNP model
Material	CASE, BASE: MPPO, terminal pin: brass	CASE: MPPO, BASE: PA66 (G25%), terminal pin: brass	CASE: MPPO, BASE: PA66 (G25%), terminal pin: brass
Approval	CE cULus EAC 06)	CE cULus EAC 06)	CE cULus EAC 06)
Unit weight (packaged)	PA: ≈ 68 g (≈ 104 g) TN: ≈ 71 g (≈ 107 g)	PA: ≈ 224 g (≈ 307 g) TN: ≈ 235 g (≈ 318 g)	PA: ≈ 345 g (≈ 438 g) TN: ≈ 370 g (≈ 463 g)

01) For the detailed information about each relay, please refer to 'Power Relay' or data sheet from the manufacturer.
02) It is current consumption for a relay including LED current.
03) It is current consumption including LED current for power part to 2).
04) This value is rated with resistive load.
05) When connecting loads to output part, please connect loads of same power type.
Connecting loads of different power type may cause safety issues.
06) 30 VDC⎓ of rated load voltage is not subjected to UL Listed.

Insulation resistance	≥ 1,000 MΩ (500 VDC⎓ megger)
Dielectric strength (coil-contact)	3,000 VAC~ 50/60 Hz for 1 minute
Dielectric strength (same polarity contact)	PA: 1,000 VAC~ 50/60 Hz for 1 minute TN: 750 VAC~ 50/60 Hz for 1 minute
Vibration	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours
Vibration (malfunction)	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min
Shock	500 m/s² (≈ 50 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	147 m/s² (≈ 15 G) in each X, Y, Z direction for 3 times
Ambient temperature	-15 to 55 °C, storage: -25 to 65 °C (no freezing or condensation)
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)

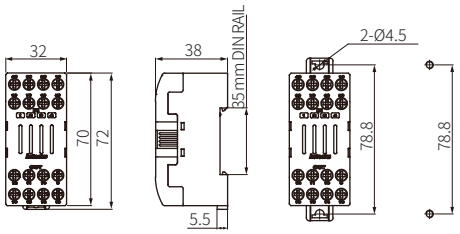
Applicable wire - stranded	AWG 22-16 (0.30 to 1.25 mm²)
Tightening torque	0.5 to 0.6 N·m

CE cULus EAC

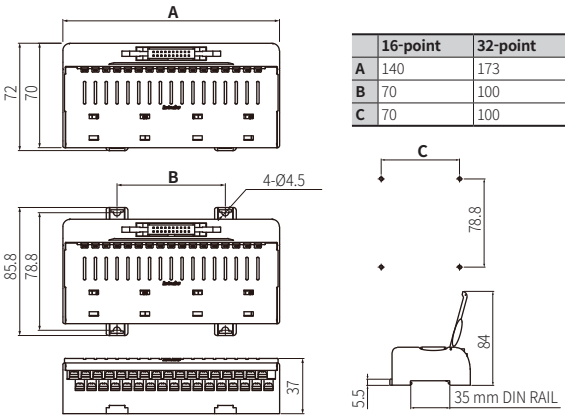
Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.

■ 4-point



■ 16-point, 32-point



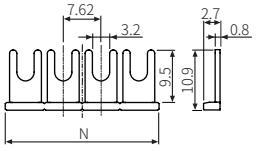
	16-point	32-point
A	140	173
B	70	100
C	70	100

Sold Separately

• 7.62 mm pitch jumper bar (4-pin: JB-7.62-04, 8-pin: JB-7.62-08)
• I/O cable

7.62 mm Pitch Jumper Bar

1. Using a nipper, cut the notches on the jumper bar as much as you need.
2. Loosen the screws which are needed to be common.
3. Insert the jumper bar under the loosen screws.
4. Tighten the screws.



Model	The number of jumper pin	N
JB-7.62-04	4	29.5
JB-7.62-08	8	60.0

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