

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 - ① ② ③ - ④ N

① Connector type

S: Screw
H: Hirose connector

② Number of relay

04: 4-point
16: 16-point
32: 32-point

③ Relay type

TN: TAKAMISAWA(Fujitsu) NYP
PA: MATSUSHITA(Panasonic) PA

④ 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 \pm 10 % | ≤ 24 VDC \pm 10 % | ≤ 24 VDC \pm 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 \sim 3A, 30 VDC \equiv 3A | 250 VAC \sim 3A, 30 VDC \equiv 3A | 250 VAC \sim 2A, 30 VDC \equiv 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 (8 $\frac{1}{2}$ /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 ENEC ⁰⁶⁾ | CE ENEC ⁰⁶⁾ | CE ENEC ⁰⁶⁾ |
| Unit weight (packaged) | PA: \approx 68 g (\approx 104 g) TN: \approx 71 g (\approx 107 g) | PA: \approx 224 g (\approx 307 g) TN: \approx 235 g (\approx 318 g) | PA: \approx 345 g (\approx 438 g) TN: \approx 370 g (\approx 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.

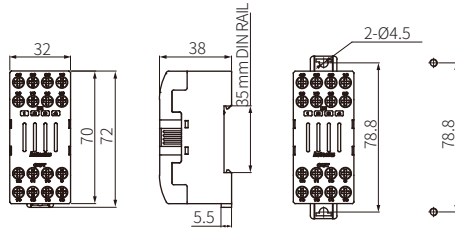
06) 30 VDC \equiv of rated load voltage is not subjected to UL Listed.

| | |
|---|---|
| Insulation resistance | ≥ 1,000 M Ω (500 VDC \equiv megger) |
| Dielectric strength (coil-contact) | 3,000 VAC \sim 50/60 Hz for 1 minute |
| Dielectric strength (same polarity contact) | PA: 1,000 VAC \sim 50/60 Hz for 1 minute TN: 750 VAC \sim 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/s ² (\approx 50 G) in each X, Y, Z direction for 3 times |
| Shock (malfunction) | 147 m/s ² (\approx 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 mm ²) |
| Tightening torque | 0.5 to 0.6 N \cdot m |

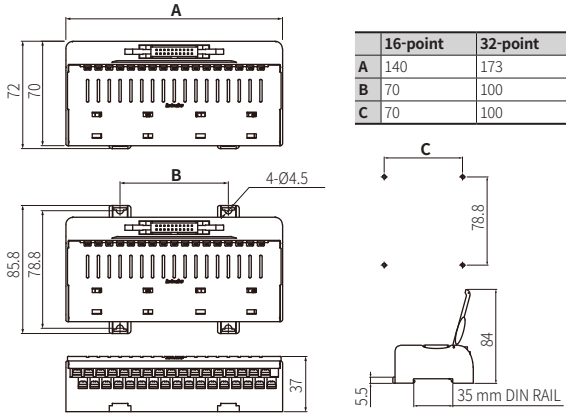
Dimensions

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

■ 4-point



■ 16-point, 32-point

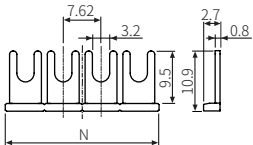


Sold Separately

- 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 |