

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 998.00 USD



Main

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|--------------------------------|---|
| Range of product | Modicon ABE7 |
| Product or component type | Solid state input relay sub-base |
| [Us] rated supply voltage | 110/130 V AC 50/60 Hz (sensor end) 24 V DC PLC end |
| Number of channels | 16 |
| Number of terminal per channel | 2 |
| Connections - terminals | Screw type terminals, 1 x 0.09...1 x 1.5 mm ² , 0.00...0.00 in ² (0.09...1.5 m-m ²) AWG 28...AWG 16) flexible with cable end Screw type terminals, 1 x 0.14...1 x 2.5 mm ² , 0.00...0.00 in ² (0.14...2.5 m-m ²) AWG 26...AWG 12) solid Screw type terminals, 1 x 0.14...1 x 2.5 mm ² , 0.00...0.00 in ² (0.14...2.5 m-m ²) AWG 26...AWG 14) flexible without cable end Screw type terminals, 2 x 0.09...2 x 0.75 mm ² , 0.00...0.00 in ² (0.09...0.75 m-m ²) AWG 28...AWG 20) flexible with cable end Screw type terminals, 2 x 0.2...2 x 2.5 mm ² , 0.00...0.00 in ² (0.2...2.5 m-m ²) AWG 24...AWG 14) solid |

Complementary

| | |
|------------------------------|---|
| Terminal block type | Removable |
| Supply voltage limits | 19...30 V DC PLC end)IEC 61131-2 |
| Isolation PLC/operative part | Yes |
| Protection type | Internal fuse 1 A 5 x 20 mm fast blow PLC end Adjustable by external fuse fast blow sensor end |
| Fixing mode | By clips 35 mm symmetrical DIN rail) By screws solid plate with fixing kit) |
| Current per channel | 0.0083 A |
| Current state 1 guaranteed | >= 5 mA sensor end) |
| Voltage state 1 guaranteed | >= 79 V for sensor end |
| Maximum switching current | 15 MA PLC end) |
| Minimum switching current | 1 MA PLC end |
| Response time | <= 20 ms from state 0 to 1 <= 20 ms from state 1 to 0 |
| Switching frequency | <= 25 Hz 50 % |

| | |
|--|-------------------------------------|
| [Uimp] rated impulse withstand voltage | 2.5 KV IEC 60947-1 |
| [Ui] rated insulation voltage | 2000 V |
| Installation category | II IEC 60664-1 |
| Tightening torque | 5.31 Lbf.In (0.6 N.m) flat Ø 3.5 mm |
| Net weight | 0.88 Lb(US) (0.397 kg) |

Environment

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|---------------------------------------|---|
| Dielectric strength | 2000 V 50/60 Hz IEC 60947-1 |
| Product certifications | BV UL GL DNV CSA LROS (Lloyds register of shipping) EAC |
| Standards | IEC 61131-2 Type 1 |
| IP degree of protection | IP2x conforming to IEC 60529 |
| Resistance to incandescent wire | 1382 °F (750 °C) IEC 60695-2-11 |
| Shock resistance | 15 gn 11 ms IEC 60068-2-27 |
| Vibration resistance | 2 gn 10...150 Hz)IEC 60068-2-6 |
| Resistance to electrostatic discharge | 4 KV contact) level 3 IEC 61000-4-2 8 KV air) level 3 IEC 61000-4-2 |
| Resistance to radiated fields | 9.14 V/M (10 V/m) 26000000...1000000000 Hz)IEC 61000-4-3 level 3 |
| Resistance to fast transients | 2 KV level 3 IEC 61000-4-4 |
| Ambient air temperature for operation | 23...140 °F (-5...60 °C) IEC 61131-2 |
| Ambient air temperature for storage | -40...176 °F (-40...80 °C) IEC 61131-2 |
| Pollution degree | 2 IEC 60664-1 |

Ordering and shipping details

| | |
|-----------------------|-----------------------------------|
| Category | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule | CP2 |
| GTIN | 03389110546279 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 16.93 Oz (480 g) |
| Returnability | No |
| Country of origin | LV |

Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.76 In (7 cm) |
| Package 1 width | 3.23 In (8.2 cm) |
| Package 1 Length | 8.35 In (21.2 cm) |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 16 |
| Package 2 Weight | 17.89 Lb(US) (8.117 kg) |
| Package 2 Height | 11.81 In (30 cm) |
| Package 2 width | 11.81 In (30 cm) |
| Package 2 Length | 15.75 In (40 cm) |

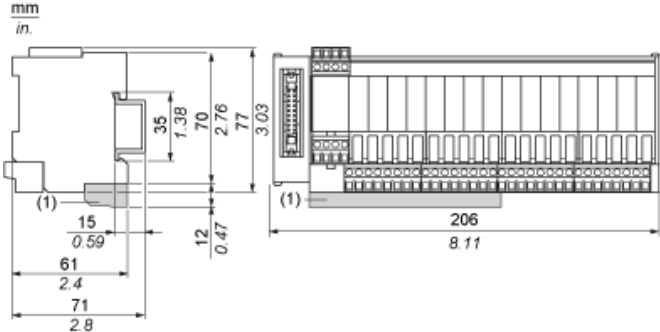
Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| RECh Regulation | RECh Declaration |
| RECh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Contractual warranty

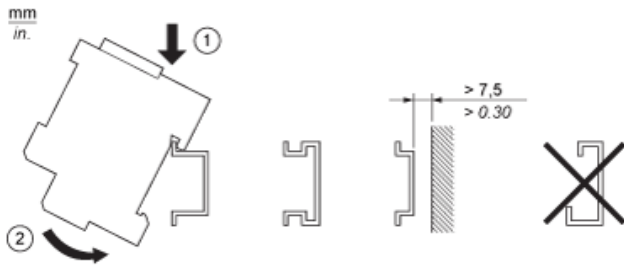
| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions

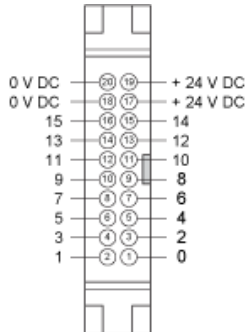


(1) ABE7BV20 / ABE7BV20E

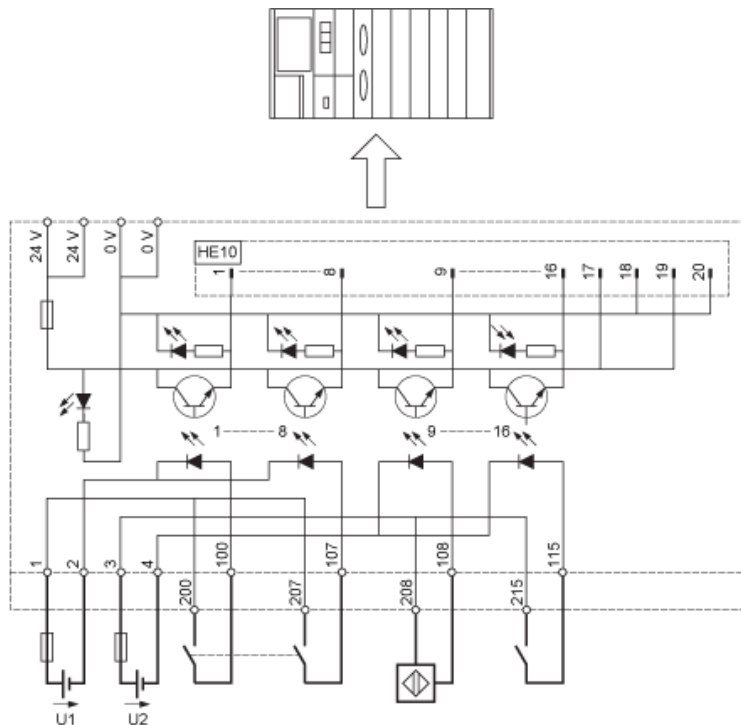
Mounting



HE10 16 Channels



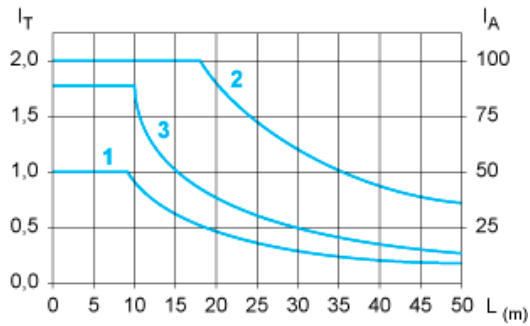
Wiring Diagram



| ABE7 | U1, U2 |
|-----------------|---------|
| S16E2B1 / E2B1E | 24 VDC |
| S16E2E1 / E2E1E | 48 VDC |
| S16E2E0 / E2E0E | 48 VAC |
| S16E2F0 / E2F0E | 115 VAC |
| S16E2M0 / E2M0E | 230 VAC |

Curves for Determining Cable Type and Length According to the Current

16-channel Sub-base



L Cable length

I_T Total current per sub base (A)

I_A Average current per channel (mA)

(1) TSXCDP••2 and ABFH20H••0 cables with c.s.a. 0.08 mm² (AWG 28).

(2) TSXCDP••3 cables with c.s.a. 0.34 mm² (AWG 22).

(3) Cables with c.s.a. 0.13 mm² (AWG 26).

The curves are given for a voltage drop of 1 V in the cable. For n volts tolerance, multiply the length determined from the graph by n.

Product Life Status : **Commercialised**