

passive connection sub-base ABE7 - 16 inputs or outputs - Led

ABE7H16R21

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon ABE7	
Product or Component Type	Passive discrete I/O sub-base	
Sub-base type	I/O sub-base	
[Us] rated supply voltage	1930 V IEC 61131-2	
Number of channels	16	
Number of terminal per channel	2	
Connections - terminals	Screw type terminals, 1 x 0.091 x 1.5 mm² AWG 28AWG 16) flexible with cable end	
	Screw type terminals, 1 x 0.141 x 2.5 mm ² AWG 26AWG 12) solid	
	Screw type terminals, 1 x 0.141 x 2.5 mm² AWG 26AWG 14) flexible without cable end	
	Screw type terminals, 2 x 0.092 x 0.75 mm² AWG 28AWG 20) flexible with cable end	
	Screw type terminals, 2 x 0.22 x 2.5 mm² AWG 24AWG 14) solid	

Complementary

supply voltage type	DC	
Number of horizontal rows	2	
Status LED	1 LED per channel (Green) channel status 1 LED (Green) power ON	
Polarity distribution	0 V or 24 V	
Short-circuit protection	2 A internal fuse, 5 x 20 mm, fast blow PLC end)	
Connector Type	HE-10	
Pin number	20 pins	
Fixing mode	By clips (35 mm symmetrical DIN rail) By screws (solid plate with fixing kit)	
Maximum supply current	1.8 A	
Current per channel	0.5 A	
Maximum current per output common	1.8 A	
Voltage drop on power supply fuse	0.3 V	
[Ui] rated insulation voltage	2000 V	
Installation category	II IEC 60664-1	
Tightening torque	5.3 lbf.in (0.6 N.m) flat Ø 3.5 mm	
Width	4.9 in (125 mm)	
Product Weight	0.7 lb(US) (0.3 kg)	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Environment

Product Certifications	DNV	
	CSA	
	UL	
	GL	
	EAC	
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 (f= 10150 Hz) conforming to IEC 60068-2-6	
Resistance to electrostatic	4 kV contact) level 3 IEC 61000-4-2	
discharge	8 kV air) level 3 IEC 61000-4-2	
Resistance to radiated fields	9.1 V/m (10 V/m) 260000001000000000 Hz)IEC 61000-4-3 level 3	
Resistance to fast transients	2 kV level 3 IEC 61000-4-4	
Ambient air temperature for operation	23140 °F (-560 °C) IEC 61131-2	
Ambient air temperature for storage	-40176 °F (-4080 °C) IEC 61131-2	
Pollution degree	2 IEC 60664-1	

Ordering and shipping details

Category	US10CP222375	
Discount Schedule	0CP2	
GTIN	3389110544961	
Returnability	Yes	
Country of origin	LV	

Packing Units

Unit Type of Package 1	PCE	
Nbr. of units in pkg.	1	
Package 1 Height	2.76 in (7.000 cm)	
Package 1 Width	3.23 in (8.200 cm)	
Package 1 Length	5.39 in (13.700 cm)	
Package weight(Lbs)	10.476 oz (297.000 g)	
Unit Type of Package 2	S03	
Number of Units in Package 2	30	
Package 2 Height	11.81 in (30.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	20.845 lb(US) (9.455 kg)	

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∇ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	1037
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	929bff7e-9bcb-44b5-b91e-c36f919ebdbd
REACh Regulation	REACh Declaration
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

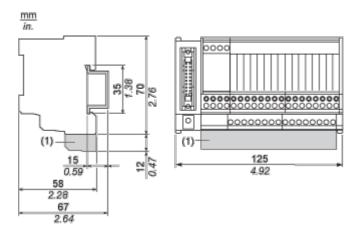
Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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Dimensions Drawings

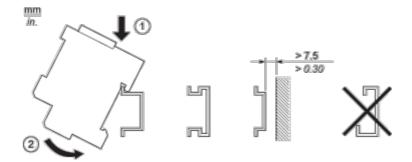
Dimensions



(1) ABE7BV20 / ABE7BV20E

Mounting and Clearance

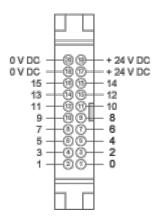
Mounting



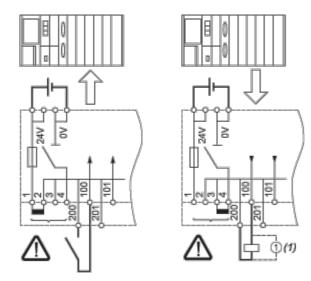
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Connections and Schema

HE10 16 Channels



Wiring Diagrams

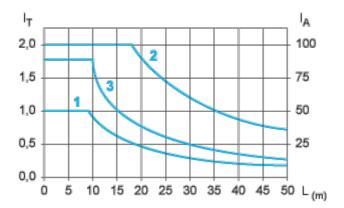


(1) Inductive load

Performance Curves

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.

Image of product / Alternate images

Alternative





