

# ABE7E16SPN22

connection sub-base ABE7 - for Twido extension - 16 outputs - fuses



## Main

Range of product	Advantys Telefast ABE7
Product or component type	Passive discrete I/O sub-base
[Us] rated supply voltage	24 V DC (controller side) 24 V DC (sensor/controller side)
Number of channels	16
Number of terminal per channel	2
Connections - terminals	Screw type terminals, clamping capacity: 1 x 0.09...1 x 1.5 mm <sup>2</sup> AWG 28...16 flexible with cable end Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm <sup>2</sup> AWG 26...12 solid Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm <sup>2</sup> AWG 26...14 flexible without cable end Screw type terminals, clamping capacity: 2 x 0.09...2 x 0.75 mm <sup>2</sup> AWG 28...20 flexible with cable end Screw type terminals, clamping capacity: 2 x 0.2...2 x 2.5 mm <sup>2</sup> AWG 28...16 solid
Connector destination	Twido programmable controller

## Complementary

Supply voltage limits	19...30 V DC (controller side) conforming to IEC 61131-2 20.4...28.8 V DC (sensor/controller side) conforming to IEC 61131-2
Discrete output number	16
Discrete output logic	Source
Discrete output voltage	24 V
Discrete output voltage type	DC
Product compatibility	TWDDDO16TK TWDDDO32TK
Status LED	1 LED for power ON 1 LED per channel for channel status
Polarity distribution	1 common/16 channels for output
Short circuit protection	2 A internal fuse, 5 x 20 mm, fast blow (controller side) 0.125 A fuse per channel, 5 x 20 mm, fast blow (output circuit)
Connector type	HE-10
Pin number	20 pins
Fixing mode	By clips on 35 mm symmetrical DIN rail conforming to IEC 60715 By screws
Supply current	<= 2 A
Current per channel	0.0032 A
Switched current	100 mA for output circuit
Current per output common	1.6 A
Voltage drop on power supply fuse	0.3 V
[U <sub>i</sub> ] rated insulation voltage	2000 V between terminals/mounting rails
Overvoltage category	II conforming to IEC 60664-1
Tightening torque	0.6 N.m (with flat Ø 3.5 mm)
Product weight	0.45 kg

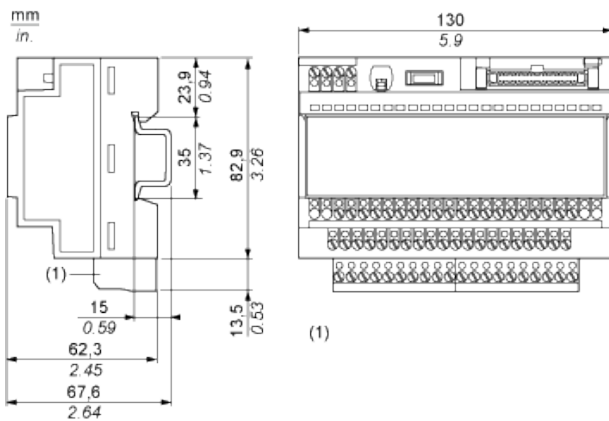
## Environment

Product certifications	CSA UL
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The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

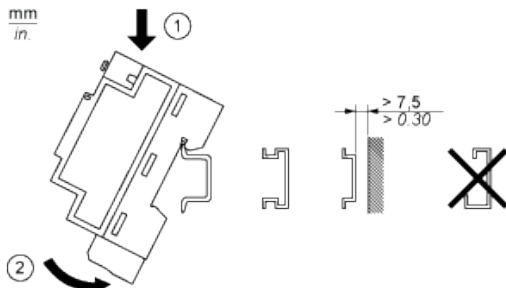
IP degree of protection	IP2x conforming to IEC 60529
Resistance to incandescent wire	750 °C conforming to IEC 60695-2-11
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	2 gn (f = 10...150 Hz) conforming to IEC 60068-2-6
Resistance to electrostatic discharge	4 kV (contact) conforming to IEC 61000-4-2 level 3 8 kV (air) conforming to IEC 61000-4-2 level 3
Resistance to radiated fields	10 V/m (80000000...2000000000 Hz) conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 3
Ambient air temperature for operation	-5...60 °C conforming to IEC 61131-2
Ambient air temperature for storage	-40...80 °C conforming to IEC 61131-2
Pollution degree	2 conforming to IEC 60664-1

### Dimensions

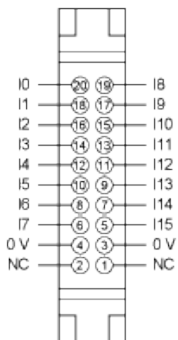


(1) ABE7BV10 / BV20 / BV20TB

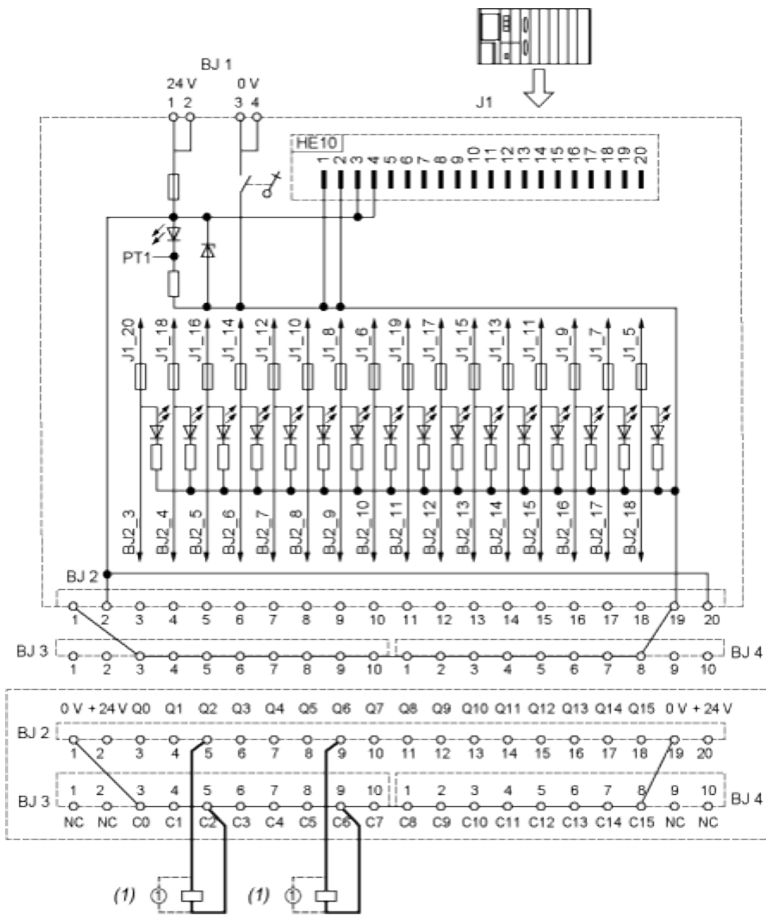
### Mounting



### HE10 16 Channels

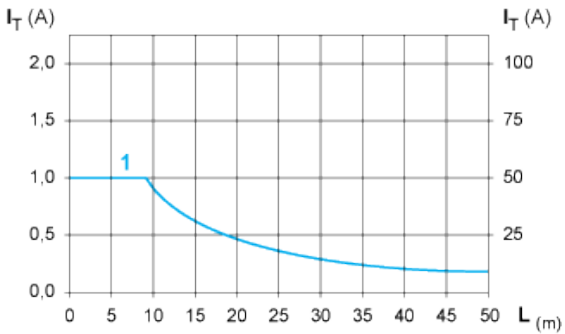


### Wiring Diagram



(1) Inductive load

### Curves for Determining Cable Type and Length According to the Current



L Cable length

$I_T$  Total current per sub base (A)

$I_A$  Average current per channel (mA)

(1) Cables ABFT2••••• c.s.a. 0.08 mm<sup>2</sup> (AWG 28)

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.