



Main

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

Complementary

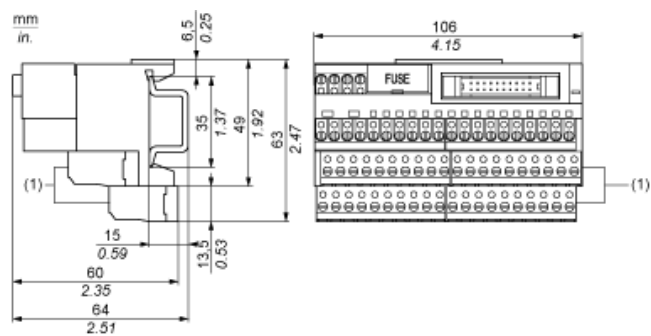
Supply voltage limits	20.4...26.4 V DC (sensor/controller side) conforming to IEC 61131-2 19...30 V DC (controller side) conforming to IEC 61131-2
Discrete input number	16
Discrete input logic	Sink
Discrete output voltage	24 V
Discrete output voltage type	DC
Product compatibility	TWDDDI16DK TWDDDI32DK
Status LED	1 LED for power ON
Polarity distribution	1 common/16 channels for input
Short circuit protection	2 A internal fuse, 5 x 20 mm, fast blow (controller side)
Connector type	HE-10
Pin number	20 pins
Fixing mode	By screws By clips on 35 mm symmetrical DIN rail conforming to IEC 60715
Supply current	<= 2 A
Switched current	15 mA for input circuit
Voltage drop on power supply fuse	0.3 V
[Ui] 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	0.43 kg

Environment

Standards	IEC 61131-2 Type 1
Product certifications	CSA UL
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

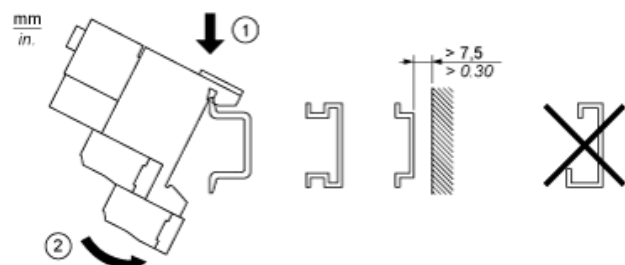
Resistance to electrostatic discharge	8 kV (air) conforming to IEC 61000-4-2 level 3 4 kV (contact) conforming to IEC 61000-4-2 level 3
Resistance to radiated fields	10 V/m (80000000...2000000000 Hz) conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 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

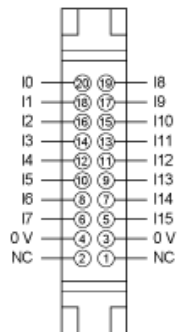


(1) ABE7BV10 / BV20 / BV20TB

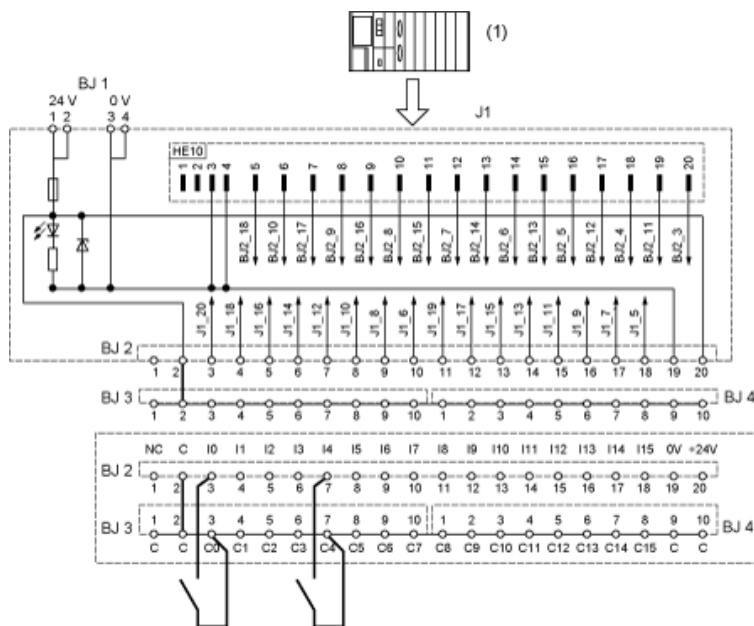
Mounting



HE10 16 Channels

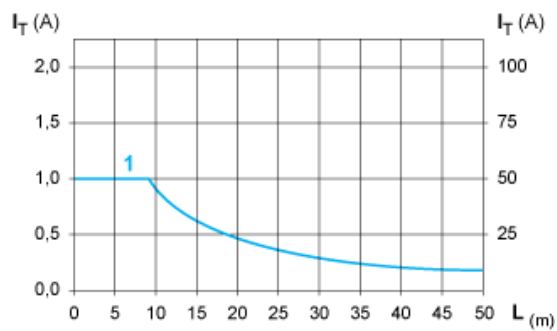


Wiring Diagram



(1) Input sink

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^2 (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.