



### 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)<br>24 V DC (controller side)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Number of channels             | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Number of terminal per channel | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Connections - terminals        | Screw type terminals, clamping capacity: 2 x 0.2...2 x 2.5 mm <sup>2</sup> AWG 28...16 solid<br>Screw type terminals, clamping capacity: 2 x 0.09...2 x 0.75 mm <sup>2</sup> AWG 28...20 flexible with cable end<br>Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm <sup>2</sup> AWG 26...14 flexible without cable end<br>Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm <sup>2</sup> AWG 26...12 solid<br>Screw type terminals, clamping capacity: 1 x 0.09...1 x 1.5 mm <sup>2</sup> AWG 28...16 flexible with cable end |
| Connector destination          | Twido programmable controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

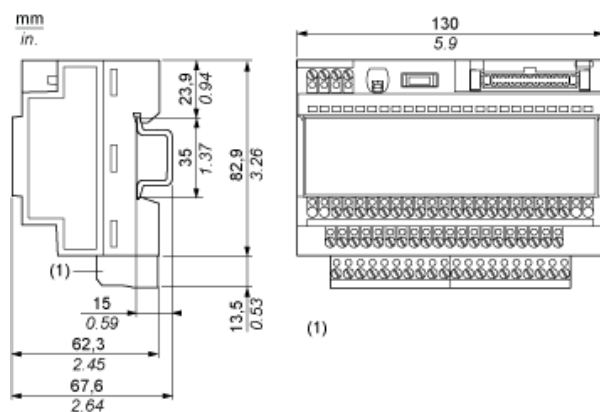
### Complementary

|                                   |                                                                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage limits             | 20.4...26.4 V DC (sensor/controller side) conforming to IEC 61131-2<br>19...30 V DC (controller side) conforming to IEC 61131-2 |
| Discrete input number             | 12                                                                                                                              |
| Discrete input logic              | Sink                                                                                                                            |
| Discrete output number            | 8                                                                                                                               |
| Discrete output voltage           | 24 V                                                                                                                            |
| Discrete output voltage type      | DC                                                                                                                              |
| Product compatibility             | TWDLMDA20DTK<br>TWDLMDA40DTK                                                                                                    |
| Status LED                        | 1 LED for power ON                                                                                                              |
| Polarity distribution             | 1 common/8 channels for output<br>1 common/12 channels for input                                                                |
| Short circuit protection          | 2 A internal fuse, 5 x 20 mm, fast blow (controller side)                                                                       |
| Connector type                    | HE-10                                                                                                                           |
| Pin number                        | 26 pins                                                                                                                         |
| Fixing mode                       | By screws<br>By clips on 35 mm symmetrical DIN rail conforming to IEC 60715                                                     |
| Supply current                    | <= 2 A                                                                                                                          |
| Switched current                  | 300 mA for output circuit<br>15 mA for input circuit                                                                            |
| Current per output common         | 2 A                                                                                                                             |
| 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<br>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<br>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                                                                          |

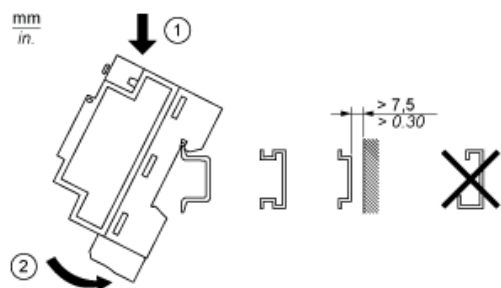
## Dimensions



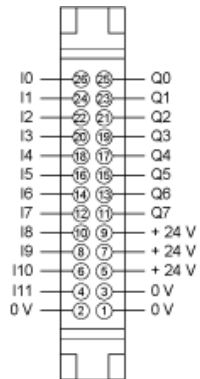
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Mounting

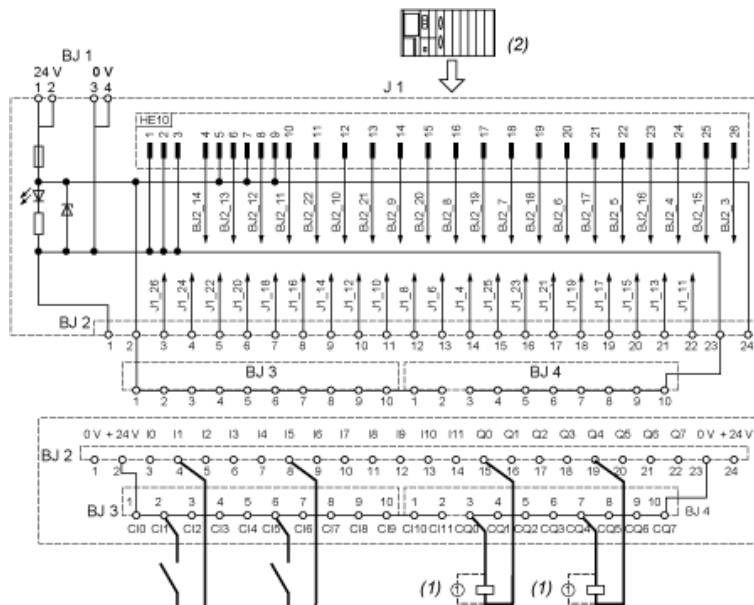
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## HE10 20 Channels

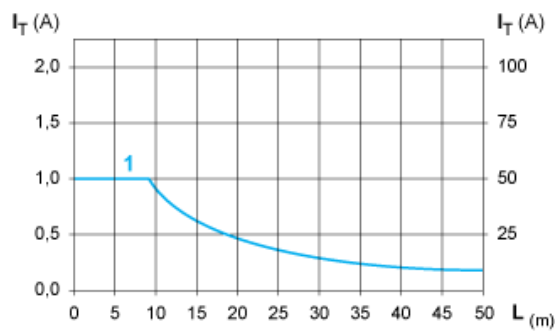


## Wiring Diagram



- (1) Inductive load
- (2) 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.  $0.08 \text{ mm}^2$  (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.