

Product availability: Stock - Normally stocked in distribution facility



### Main

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product               | Advantys Telefast ABE7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product or component type      | Discrete output sub-base                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Us] rated supply voltage      | 24 V DC (controller side)<br>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...AWG 16 flexible with cable end<br>Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm <sup>2</sup> AWG 26...AWG 12 solid<br>Screw type terminals, clamping capacity: 1 x 0.14...1 x 2.5 mm <sup>2</sup> AWG 26...AWG 14 flexible without cable end<br>Screw type terminals, clamping capacity: 2 x 0.09...2 x 0.75 mm <sup>2</sup> AWG 28...AWG 20 flexible with cable end<br>Screw type terminals, clamping capacity: 2 x 0.2...2 x 2.5 mm <sup>2</sup> AWG 28...AWG 16 solid |
| Connector destination          | Twido programmable controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### Complementary

|                                   |                                                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Supply voltage limits             | 19...30 V DC conforming to IEC 61131-2 (controller side)<br>19...30 V DC conforming to IEC 61131-2 (sensor/controller side) |
| Discrete output number            | 16 relay output(s), 3000 mA                                                                                                 |
| Discrete output voltage           | 110...250 V AC relay output(s)<br>24 V DC solid state output(s)<br>5...30 V DC relay output(s)                              |
| Discrete output function          | 1 NO                                                                                                                        |
| Product compatibility             | TWDDDO16TK<br>TWDDDO32TK                                                                                                    |
| Status LED                        | 1 LED power ON                                                                                                              |
| Polarity distribution             | 1 common/4 channels relay output                                                                                            |
| Short-circuit protection          | 2 A internal fuse, 5 x 20 mm, fast blow (controller side)                                                                   |
| Connector type                    | HE-10                                                                                                                       |
| Pin number                        | 20                                                                                                                          |
| Fixing mode                       | By clips on 35 mm symmetrical DIN rail conforming to IEC 60715<br>By screws                                                 |
| Supply current                    | ≤ 2 A                                                                                                                       |
| Current per channel               | 0.009 A relay output(s)                                                                                                     |
| Switched current                  | 3000 mA for relay output                                                                                                    |
| Current per output common         | 5 A relay output                                                                                                            |
| Voltage drop on power supply fuse | 0.3 V                                                                                                                       |
| Voltage state 0 guaranteed        | 2 V relay output(s) (sensor/controller side)                                                                                |
| Voltage state 1 guaranteed        | 16.8 V relay output(s)                                                                                                      |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the company. This information is not intended 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.

|                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability                  | 500000 cycles, maximum switching current: 2000 mA AC-12 relay output(s) (pre-actuator side)<br>500000 cycles, maximum switching current: 3000 mA DC-12 relay output(s) (pre-actuator side)<br>500000 cycles, maximum switching current: 400 mA AC-15 relay output(s) (pre-actuator side)<br>500000 cycles, maximum switching current: 500 mA DC-13 relay output(s) (pre-actuator side) |
| Minimum switching current              | 100 mA relay output(s)                                                                                                                                                                                                                                                                                                                                                                 |
| Response time                          | <= 2.5 ms from state 1 to 0 relay output(s)<br><= 5 ms from state 0 to 1 relay output(s)                                                                                                                                                                                                                                                                                               |
| [Uimp] rated impulse withstand voltage | 6 kV relay output(s)                                                                                                                                                                                                                                                                                                                                                                   |
| Switching frequency                    | 20 Hz relay                                                                                                                                                                                                                                                                                                                                                                            |
| Mechanical durability                  | 20000000 cycles at 68 °F (20 °C)                                                                                                                                                                                                                                                                                                                                                       |
| [Ui] rated insulation voltage          | 2000 V between terminals/mounting rails<br>300 V between coil circuit/contact circuits conforming to IEC 60947-1                                                                                                                                                                                                                                                                       |
| Overvoltage category                   | II conforming to IEC 60664-1                                                                                                                                                                                                                                                                                                                                                           |
| Tightening torque                      | 5.31 lbf.in (0.6 N.m) (with flat Ø 3.5 mm)                                                                                                                                                                                                                                                                                                                                             |
| Product weight                         | 0.95 lb(US) (0.43 kg)                                                                                                                                                                                                                                                                                                                                                                  |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Product certifications                | CSA<br>UL                                                                                            |
| IP degree of protection               | IP2x conforming to IEC 60529                                                                         |
| Resistance to incandescent wire       | 1382 °F (750 °C) conforming to IEC 60695-2-11                                                        |
| Shock resistance                      | 15 gn 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<br>8 kV (air) conforming to IEC 61000-4-2 level 3 |
| Resistance to radiated fields         | 9.14 V/yd (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 | 23...140 °F (-5...60 °C) conforming to IEC 61131-2                                                   |
| Ambient air temperature for storage   | -40...176 °F (-40...80 °C) conforming to IEC 61131-2                                                 |
| Pollution degree                      | 2 conforming to IEC 60664-1                                                                          |

## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22375 - INTERFACE MODULE(ABA,R,S) |
| Discount Schedule     | CP2                               |
| GTIN                  | 00785901590323                    |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 0.8399999999999997                |
| Returnability         | Y                                 |
| Country of origin     | LV                                |

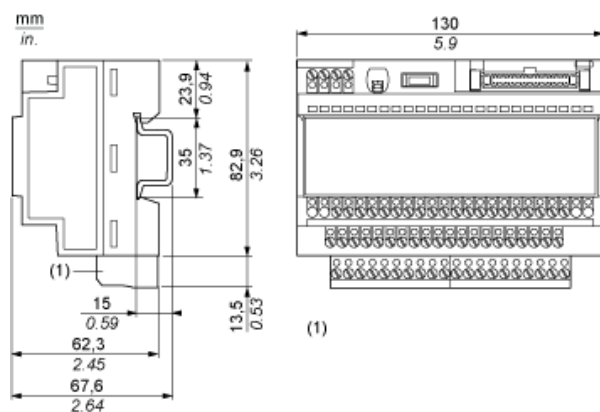
## Offer Sustainability

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                              |
| RoHS (date code: YYWW)           | Compliant - since 0841 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                                                                  |
| Product environmental profile    | Available                                                                                                                          |
| Product end of life instructions | Available                                                                                                                          |
| California proposition 65        | WARNING: This product can expose you to chemicals including:                                                                       |
| - - - - - Substance 1            | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.   |
| - - - - - More information       | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                      |

## Contractual warranty

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

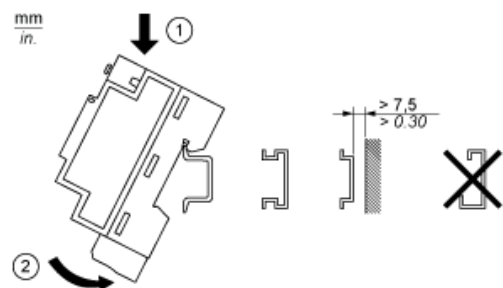
## Dimensions



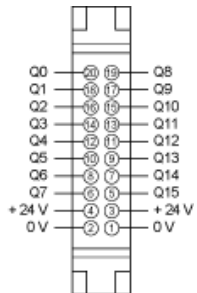
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Mounting

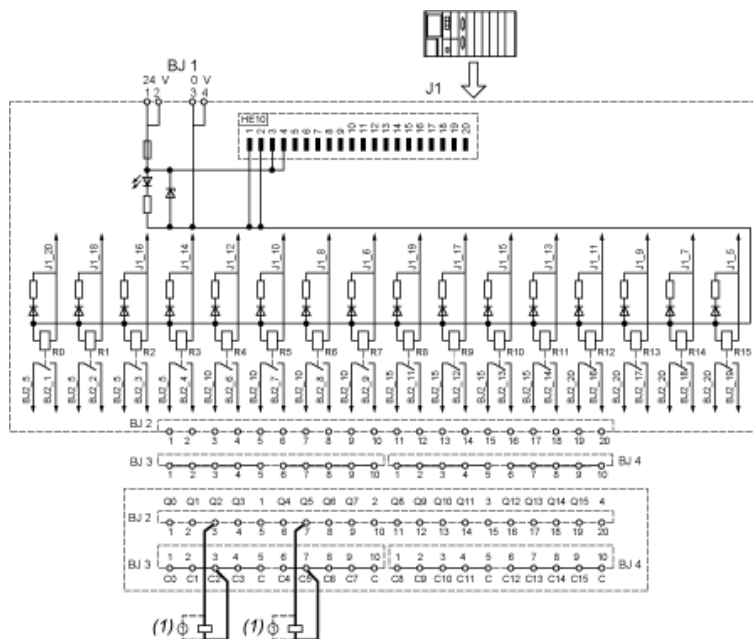
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## HE10 16 Channels

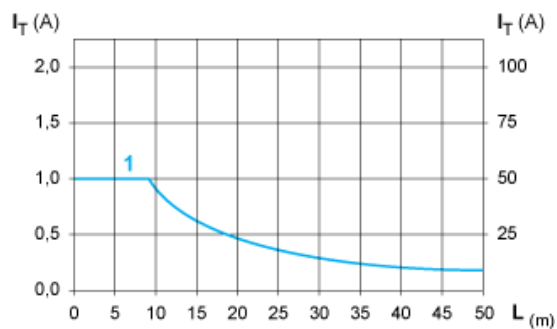


## Wiring Diagram



(1) Inductive load

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

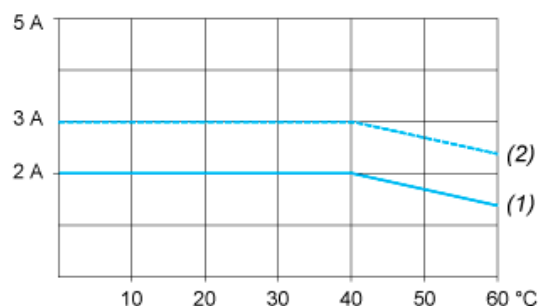


- L Cable length  
 $I_T$  Total current per sub base (A)  
 $I_A$  Average current per channel (mA)  
 (1) Cables ABFT2..... c.s.a. 0.08 mm<sup>2</sup> (AWG 28)

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.

## Temperature Derating Curves

### Electromechanical Relay Outputs

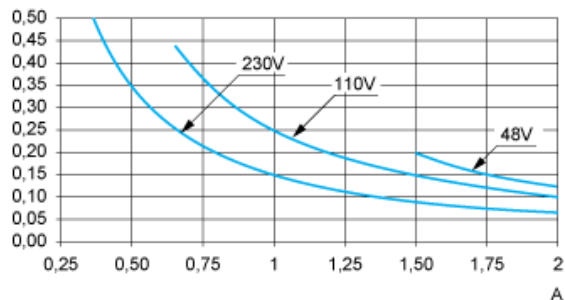


- (1) 100 % of channels used  
 (2) 50 % of channels used

## Electrical Durability (in Millions of Operating Cycles) Conforming to IEC 60947-5-1

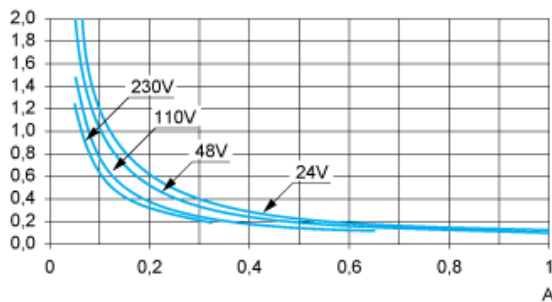
### DC Loads

DC12 curves



DC12control of resistive loads and of solid state loads isolated by optocoupler,  $I/R \leq 1$  ms.

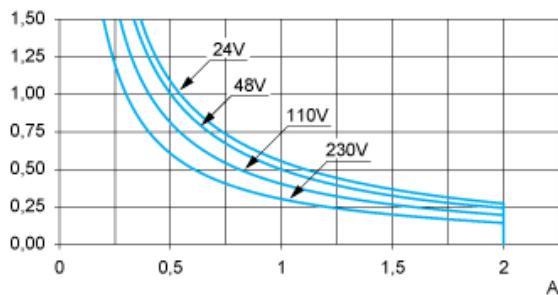
### DC13 curves



DC13switching electromagnets,  $L/R \leq 2 \times (U_e \times I_e)$  in ms,  $U_e$ : rated operational voltage,  $I_e$ : rated operational current (with a protective diode on the load, DC12 curves must be used with a coefficient of 0.9 applied to the number in millions of operating cycles)

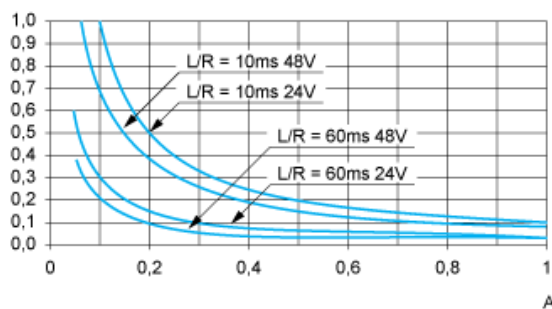
### AC Loads

#### AC12 curves



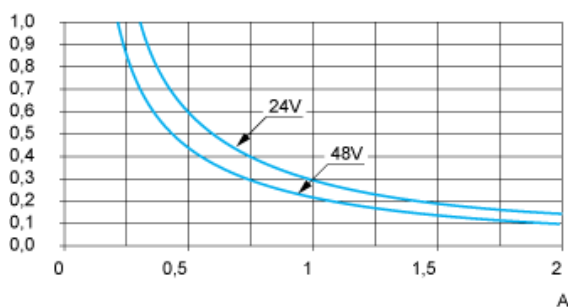
AC12control of resistive loads and of solid state loads isolated by optocoupler,  $\cos \phi \geq 0.9$ .

#### AC14 curves



AC14control of small electromagnetic loads  $\leq 72$  VA, make:  $\cos \phi = 0.3$ , break:  $\cos \phi = 0.3$ .

#### AC15 curves



AC15control of electromagnetic loads  $> 72$  VA, make:  $\cos \phi = 0.7$ , break:  $\cos \phi = 0.4$ .