

**TBY-ADV151-24-PS-2KB-S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

The digital input interfaces via relay are used to isolate the field sensors from the card and/or to adapt the operation of the said elements to the voltage required by the DCS. The interfaces also support additional characteristics that provide many benefits such as:

- **Redundancy: the interfaces have 2 50-pole (AKB) connectors for redundancy purposes.**
- **Many of the interfaces activate a relay to indicate if one of the two possible power sources has dropped below a value of approximately 12 V.**
- **The cards can be mounted via tension clamp or screw connection.**
- **The input sensors can be connected in two ways: supplied with power directly from the card or directly from the field.**

**General ordering data**

|            |                                           |
|------------|-------------------------------------------|
| Version    | Interface, RS, 2 x AKB (50P), LP2N 5.08mm |
| Order No.  | <a href="#">1384330000</a>                |
| Type       | TBY-ADV151-24-PS-2KB-S                    |
| GTIN (EAN) | 4050118185737                             |
| Qty.       | 1 pc(s).                                  |

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**Technical data**
**Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 95 mm   | Depth (inches)  | 3.74 inch  |
| Height     | 131 mm  | Height (inches) | 5.157 inch |
| Width      | 317 mm  | Width (inches)  | 12.48 inch |
| Net weight | 1,024 g |                 |            |

**Temperatures**

|                     |             |                       |             |
|---------------------|-------------|-----------------------|-------------|
| Storage temperature | -40...85 °C | Operating temperature | -25...70 °C |
|---------------------|-------------|-----------------------|-------------|

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**General data**

|                                  |       |                        |     |
|----------------------------------|-------|------------------------|-----|
| LED status display per relay     | green | Disconnecter per relay | No  |
| Fuse per relay                   | Yes   | Switch                 | No  |
| LED status of the supply voltage | green | Power supply fuse      | 1 A |

**Connection data**

|                         |             |                                |               |
|-------------------------|-------------|--------------------------------|---------------|
| Connection (field side) | LP2N 5.08mm | Connection on control side     | 2 x AKB (50P) |
| Connection supply       | LP 5.08mm   | Number of poles (control side) | 50-pole plug  |

**Rating data**

|                         |                                      |
|-------------------------|--------------------------------------|
| Mechanical service life | 5 x 10 <sup>6</sup> switching cycles |
|-------------------------|--------------------------------------|

**Ratings data input**

|               |               |               |                                    |
|---------------|---------------|---------------|------------------------------------|
| Input voltage | 24 V DC ± 10% | Input current | 7 mA (fuse on) / 0.5 mA (fuse off) |
|---------------|---------------|---------------|------------------------------------|

**Ratings data output**

|                         |              |                            |                  |
|-------------------------|--------------|----------------------------|------------------|
| Relay type              | RSS          | Contact material           | AgNi gold-plated |
| Rated voltage           | 18...30 V DC | Max. DC continuous current | 10 mA            |
| Minimum contact current | 1 mA         | Minimum contact voltage    | 1 V              |

**Insulation coordinates (EN50178)**

|                                    |           |                                   |           |
|------------------------------------|-----------|-----------------------------------|-----------|
| Rated input insulation voltage     | ≤ 50 V DC | Rated output insulation voltage   | ≤ 50 V DC |
| Overvoltage category input/input   | III       | Overvoltage category input/output | III       |
| Overvoltage category output/output | III       | Pollution severity level          | 2         |
| Pulse voltage test (1,2/50µs)      | 1.5 kV    | Insulation test voltage           | 0.35 kVAC |
| Clearance input/output             | ≥ 5.5 mm  |                                   |           |

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**Connection field**

|                                  |                     |                              |                      |
|----------------------------------|---------------------|------------------------------|----------------------|
| Clamping range, max.             | 6 mm <sup>2</sup>   | Clamping range, min.         | 0.13 mm <sup>2</sup> |
| Flexible with sleeve, max.       | 2.5 mm <sup>2</sup> | Flexible with sleeve, min.   | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K       | 4 mm <sup>2</sup>   | Flexible, min. H05(07) V-K   | 0.5 mm <sup>2</sup>  |
| Max. wire cross-section, AWG     | AWG 12              | Min. wire cross-section, AWG | AWG 26               |
| Sleeve with plastic collar, max. | 2.5 mm <sup>2</sup> | Solid, max. H05(07) V-U      | 6 mm <sup>2</sup>    |
| Solid, min. H05(07) V-U          | 0.5 mm <sup>2</sup> | Stripping length             | 6 mm                 |
| Tightening torque, max.          | 0.6 Nm              | Tightening torque, min.      | 0.5 Nm               |
| Type of connection               | Screw connection    |                              |                      |

**Supply connection**

|                              |                     |                                   |                      |
|------------------------------|---------------------|-----------------------------------|----------------------|
| Type of connection           | Screw connection    | Clamping range, min.              | 0.13 mm <sup>2</sup> |
| Clamping range, max.         | 6 mm <sup>2</sup>   | Solid, min. H05(07) V-U           | 0.5 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U      | 6 mm <sup>2</sup>   | Flexible, min. H05(07) V-K        | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K   | 4 mm <sup>2</sup>   | Flexible with sleeve, max.        | 2.5 mm <sup>2</sup>  |
| Flexible with sleeve, min.   | 2.5 mm <sup>2</sup> | Ferrule with plastic collar, max. | 0.5 mm <sup>2</sup>  |
| Wire cross-section, min. AWG | AWG 12              | Wire cross-section, max. AWG      | AWG 26               |
| Tightening torque, min.      | 0.5 Nm              | Tightening torque, max.           | 0.6 Nm               |
| Stripping length             | 6 mm                |                                   |                      |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002780    | ETIM 7.0    | EC002780    |
| ETIM 8.0    | EC002780    | ECLASS 9.0  | 27-14-11-52 |
| ECLASS 9.1  | 27-24-22-16 | ECLASS 10.0 | 27-14-11-52 |
| ECLASS 11.0 | 27-14-11-52 |             |             |

**Approvals**

Approvals



ROHS

Conform

**Downloads**

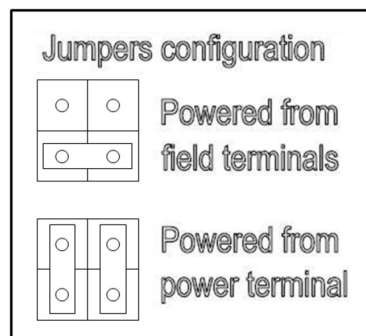
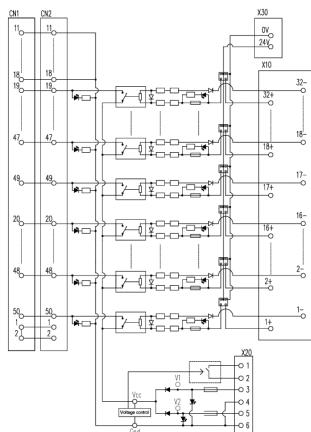
|            |                                          |
|------------|------------------------------------------|
| Catalogues | <a href="#">Catalogues in PDF-format</a> |
| Brochures  |                                          |

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## Drawings



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