

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

Klingenbergstraße 26

D-32758 Detmold

Germany

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

**Digital interfaces are equipped with 50-pole connectors (KS) and offer numerous advantages, 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.
- Multiple functions are integrated: isolators, fuses with status indicator, relay and status LEDs.

**General ordering data**

|            |                                           |
|------------|-------------------------------------------|
| Version    | Interface, RS, 2 x AKB (50P), LP2N 5.08mm |
| Order No.  | <a href="#">1397820000</a>                |
| Type       | TBY-ADV151-PS-F-L-2KB-S                   |
| GTIN (EAN) | 4050118198591                             |
| Qty.       | 1 pc(s).                                  |

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

|                |            |                 |           |
|----------------|------------|-----------------|-----------|
| Height         | 95 mm      | Height (inches) | 3.74 inch |
| Length         | 190 mm     | Length (inches) | 7.48 inch |
| Net weight     | 638.154 g  | Width           | 131 mm    |
| Width (inches) | 5.157 inch |                 |           |

**Temperatures**

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

**General data**

|                                |        |                                  |       |
|--------------------------------|--------|----------------------------------|-------|
| LED status display per channel | green  | Disconnection per channel        | No    |
| Type of test point             | No     | Switch                           | No    |
| Fuse per channel               | 100 mA | LED status of the supply voltage | green |
| Power supply fuse              | 2 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  |

**Ratings data**

|                         |         |                          |     |
|-------------------------|---------|--------------------------|-----|
| Operating voltage       | 24 V DC | Max. current per channel | 1 A |
| Total operating current | 2 A     |                          |     |

**Insulation coordination (EN50178)**

|                          |           |                               |        |
|--------------------------|-----------|-------------------------------|--------|
| Rated insulation voltage | < 50 V AC | Surge voltage category        | III    |
| Pollution severity level | 2         | Pulse voltage test (1,2/50µs) | 0.8 kV |
| Insulation test voltage  | 0.35 kVAC |                               |        |

**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                |                                   |                      |

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|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002780    | ETIM 7.0    | EC002780    |
| ECLASS 9.0  | 27-14-11-52 | ECLASS 9.1  | 27-14-11-52 |
| ECLASS 10.0 | 27-14-11-52 | ECLASS 11.0 | 27-14-11-52 |

**Approvals**

Approvals



ROHS

Conform

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# Drawings

