

## TBY-ADV151-PS-F-L-2KB-Z

**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), LM2NZF 5.08mm |
| Order No.       | <a href="#">1397830000</a>                  |
| Type            | TBY-ADV151-PS-F-L-2KB-Z                     |
| GTIN (EAN)      | 4050118198690                               |
| Qty.            | 1 items                                     |
| Delivery status | Discontinued                                |

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**Technical data**
**Approvals**

Approvals



ROHS Conform

**Dimensions and weights**

|            |          |                 |             |
|------------|----------|-----------------|-------------|
| Depth      | 95 mm    | Depth (inches)  | 3.7401 inch |
| Height     | 131 mm   | Height (inches) | 5.1575 inch |
| Width      | 190 mm   | Width (inches)  | 7.4803 inch |
| Net weight | 566.85 g |                 |             |

**Temperatures**

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

**Environmental Product Compliance**

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 7b305775-bf96-40a0-9bb6-8abdb4644a87 |

**General data**

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

**Connection data**

|                                |               |                            |               |
|--------------------------------|---------------|----------------------------|---------------|
| Number of poles (control side) | 50-pole plug  | Connection supply          | LMNZF 5.08mm  |
| Connection (field side)        | LM2NZF 5.08mm | Connection on control side | 2 x AKB (50P) |

**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 AC | 0.35 kV   |                               |        |

**Connection field**

|                                  |                     |                            |                          |
|----------------------------------|---------------------|----------------------------|--------------------------|
| Min. wire cross-section, AWG     | AWG 24              | Type of connection         | Tension-clamp connection |
| Sleeve with plastic collar, max. | 1.5 mm <sup>2</sup> | Flexible with sleeve, min. | 0.25 mm <sup>2</sup>     |
| Flexible with sleeve, max.       | 1.5 mm <sup>2</sup> | Flexible, max. H05(07) V-K | 1.5 mm <sup>2</sup>      |
| Flexible, min. H05(07) V-K       | 0.2 mm <sup>2</sup> | Solid, max. H05(07) V-U    | 2.5 mm <sup>2</sup>      |
| Solid, min. H05(07) V-U          | 0.2 mm <sup>2</sup> | Stripping length           | 7.5 mm                   |
| Clamping range, max.             | 2.5 mm <sup>2</sup> | Clamping range, min.       | 0.13 mm <sup>2</sup>     |

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Catalogue status / Drawings

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## Technical data

Max. wire cross-section, AWG      AWG 14

### Supply connection

|                              |                          |                                   |                      |
|------------------------------|--------------------------|-----------------------------------|----------------------|
| Type of connection           | Tension-clamp connection | Clamping range, min.              | 0.13 mm <sup>2</sup> |
| Clamping range, max.         | 2.5 mm <sup>2</sup>      | Solid, min. H05(07) V-U           | 0.2 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U      | 2.5 mm <sup>2</sup>      | Flexible, min. H05(07) V-K        | 0.2 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K   | 1.5 mm <sup>2</sup>      | Flexible with sleeve, max.        | 1.5 mm <sup>2</sup>  |
| Flexible with sleeve, min.   | 0.25 mm <sup>2</sup>     | Ferrule with plastic collar, max. | 1.5 mm <sup>2</sup>  |
| Wire cross-section, min. AWG | AWG 14                   | Wire cross-section, max. AWG      | AWG 24               |
| Stripping length             | 7.5 mm                   |                                   |                      |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002780    | ETIM 9.0    | EC002780    |
| ETIM 10.0   | EC002780    | ECLASS 14.0 | 27-14-11-52 |
| ECLASS 15.0 | 27-14-11-52 |             |             |

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Drawings

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