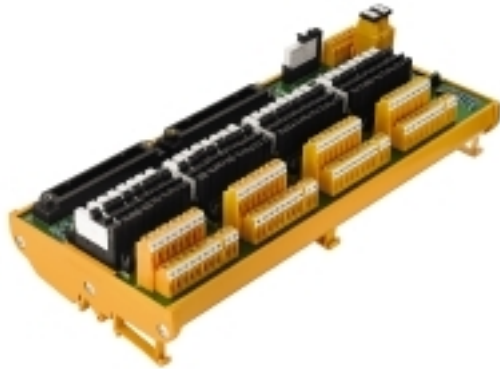


TBY-ADV551-CF-PS-2KB-Z**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Similar to illustration

The digital output 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), LM2NZF 5.08mm |
| Order No. | 1379510000 |
| Type | TBY-ADV551-CF-PS-2KB-Z |
| GTIN (EAN) | 4050118207163 |
| Qty. | 1 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|------------|----------|-----------------|-------------|
| Depth | 80 mm | Depth (inches) | 3.15 inch |
| Height | 131 mm | Height (inches) | 5.157 inch |
| Width | 303 mm | Width (inches) | 11.929 inch |
| Net weight | 802.72 g | | |

Temperatures

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

General data

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

Connection data

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

Rating data

| | |
|-------------------------|--------------------------------------|
| Mechanical service life | 5 x 10 ⁶ switching cycles |
|-------------------------|--------------------------------------|

Ratings data input

| | | | |
|---------------|---------------|---------------|-------|
| Input voltage | 24 V DC ± 10% | Input current | 13 mA |
|---------------|---------------|---------------|-------|

Ratings data output

| | | | |
|-------------------------|----------|----------------------------|------------|
| Relay type | RSS | Contact material | AgNi 90/10 |
| Rated voltage | 250 V AC | Max. AC continuous current | 2.5 A |
| Minimum contact current | 0.1 A | Minimum contact voltage | 5 V |

Insulation coordinates (EN50178)

| | | | |
|-----------------------------------|-----------|------------------------------------|-----------|
| Rated insulation voltage | ≤ 50 V DC | Rated input insulation voltage | ≤ 50 V DC |
| Rated output insulation voltage | 250 V AC | Overvoltage category input/input | II |
| Overvoltage category input/output | III | Overvoltage category output/output | II |
| Pollution severity level | 2 | Pulse voltage test (1,2/50µs) | 6 kV |
| Insulation test voltage AC | 1.2 kV | Clearance input/output | ≥ 5.5 mm |
| Clearance input/input | ≥ 5.5 mm | | |

Connection field

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

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002780 | ETIM 7.0 | EC002780 |
| ETIM 8.0 | EC002780 | ETIM 9.0 | 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 |
| ECLASS 12.0 | 27-14-11-52 | ECLASS 13.0 | 27-14-11-52 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9dd73319-d286-43a8-a0b7-6458fd2c03f9 |

Approvals

Approvals



| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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Drawings

