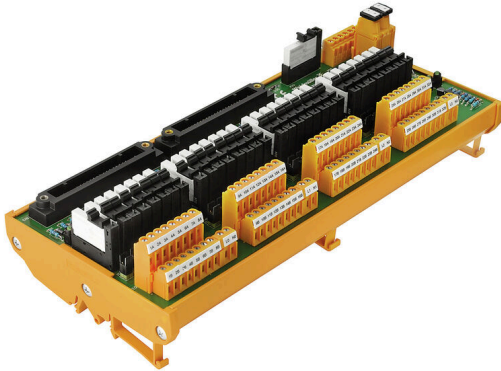


**TBY-ADV551-CF-PS-2KB-S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

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), LL2N 5.08 mm
Order No.	<a href="#">137950000</a>
Type	TBY-ADV551-CF-PS-2KB-S
GTIN (EAN)	4050118207156
Qty.	1 items

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**Technical data**
**Approvals**

Approvals



ROHS Conform

**Dimensions and weights**

Depth	80 mm	Depth (inches)	3.1496 inch
Height	131 mm	Height (inches)	5.1575 inch
Width	303 mm	Width (inches)	11.9291 inch
Net weight	927.34 g		

**Temperatures**

Storage temperature	-40...85 °C	Operating temperature	-25...70 °C
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**Environmental Product Compliance**

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	4c2bf777-1c3a-4574-9dcf-a43fbd923cdb

**General data**

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

**Connection data**

Number of poles (control side)	50-pole plug	Connection supply	LP 5.08mm
Connection (field side)	LL2N 5.08 mm	Connection on control side	2 x AKB (50P)

**Rating data**

Mechanical service life	5 x 10 <sup>6</sup> switching cycles
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**Ratings data input**

Input voltage	24 V DC ± 10%	Input current	13 mA
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**Ratings data output**

Relay type	RSS	Material of contacts	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	Overtoltage category input/input	II
Overtoltage category input/output	III	Overtoltage category output/output	II
Pollution severity level	2	Pulse voltage test (1,2/50µs)	6 kV

Creation date 20.02.2026 09:27:09 MEZ

Catalogue status / Drawings

## TBY-ADV551-CF-PS-2KB-S

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## Technical data

Insulation test voltage AC	1.2 kV	Clearance input/output	≥ 5.5 mm
Clearance input/input	≥ 5.5 mm		

### Connection field

Min. wire cross-section, AWG	AWG 26	Type of connection	Screw connection
Sleeve with plastic collar, max.	2.5 mm <sup>2</sup>	Flexible with sleeve, min.	0.5 mm <sup>2</sup>
Flexible with sleeve, max.	2.5 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>	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
Clamping range, max.	6 mm <sup>2</sup>	Clamping range, min.	0.13 mm <sup>2</sup>
Max. wire cross-section, AWG	AWG 12		

### 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 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		

