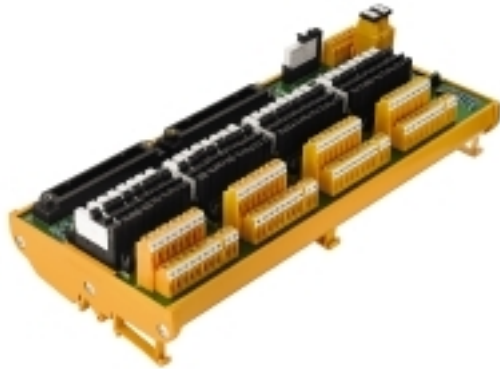


TBY-ADV551-CF-PS-2KB-Z**Weidmüller Interface GmbH & Co. KG**

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

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

Temperatures

Storage temperature	-40...85 °C	Operating temperature	-25...70 °C
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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
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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	Contact material	AgNi 90/10
Rated voltage (text)	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	1.2 kVAC	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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Technical data
Supply connection

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
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

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 Approval/Certificate/Document of
Conformity

[Declaration of Conformity](#)

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Drawings

