

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

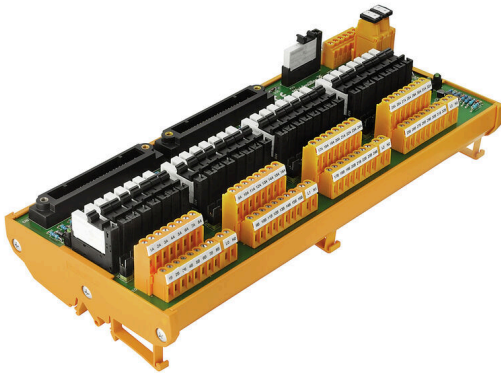
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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.	137950000
Type	TBY-ADV551-CF-PS-2KB-S
GTIN (EAN)	4050118207156
Qty.	1 items

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Technical data
Approvals

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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	Contact	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 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	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	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

Creation date 24.02.2026 08:56:30 MEZ

Catalogue status / Drawings

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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 ²	Flexible with sleeve, min.	0.5 mm ²
Flexible with sleeve, max.	2.5 mm ²	Flexible, max. H05(07) V-K	4 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²	Solid, max. H05(07) V-U	6 mm ²
Solid, min. H05(07) V-U	0.5 mm ²	Stripping length	6 mm
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm
Clamping range, max.	6 mm ²	Clamping range, min.	0.13 mm ²
Max. wire cross-section, AWG	AWG 12		

Supply connection

Type of connection	Screw connection	Clamping range, min.	0.13 mm ²
Clamping range, max.	6 mm ²	Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	6 mm ²	Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	4 mm ²	Flexible with sleeve, max.	2.5 mm ²
Flexible with sleeve, min.	2.5 mm ²	Ferrule with plastic collar, max.	0.5 mm ²
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		

