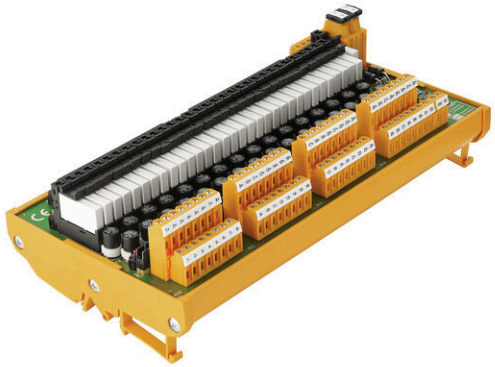
Data sheet

TBY-ADV151-48-PS-2KB-S

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



The digital input 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), LP2N 5.08mm
Order No.	1384280000
Type	TBY-ADV151-48-PS-2KB-S
GTIN (EAN)	4050118185621
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2026-02-10T00:00:00+01:00

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Technical data

Approvals

Approvals	CE
ROHS	Conform

Dimensions and weights

Depth	95 mm	Depth (inches)	3.7401 inch
Height	131 mm	Height (inches)	5.1575 inch
Width	317 mm	Width (inches)	12.4803 inch
Net weight	910 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, 7a, 7cI
REACH SVHC	Lead 7439-92-1
SCIP	4c2bf777-1c3a-4574-9dcf-a43fbd923cdb

General data

LED status display per relay	green	Disconnector per relay	No
Fuse per relay	Yes	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)	LP2N 5.08mm	Connection on control side	2 x AKB (50P)

Rating data

Mechanical service life	5 x 106 switching cycles

Ratings data input

Input voltage	48 V DC ± 10%	Input current	7 mA (fuse on) / 0.5 mA (fuse off)

Ratings data output

Relay type	RSS	Material of contacts	AgNi gold-plated
Rated voltage	18...30 V DC	Max. DC continuous current	10 mA
Minimum contact current	1 mA	Minimum contact voltage	1 V

Insulation coordinates (EN50178)

Rated input insulation voltage	≤ 50 V DC	Rated output insulation voltage	≤ 50 V DC
Overvoltage category input/input	III	Overvoltage category input/output	III

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Overvoltage category output/output	III	Pollution severity level	2
Pulse voltage test (1,2/50µs)	1.5 kV	Insulation test voltage AC	0.35 kV
Clearance input/output	≥ 5.5 mm		

Connection field

Min. wire cross-section, AWG	AWG 26	Type of connection	Screw connection
Sleeve with plastic collar, max.	2.5 mm²	Flexible with sleeve, min.	0.5 mm²
Flexible with sleeve, max.	2.5 mm²	Flexible, max. H05(07) V-K	4 mm²
Flexible, min. H05(07) V-K	0.5 mm²	Solid, max. H05(07) V-U	6 mm²
Solid, min. H05(07) V-U	0.5 mm²	Stripping length	6 mm
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm
Clamping range, max.	6 mm²	Clamping range, min.	0.13 mm²
Max. wire cross-section, AWG	AWG 12		

Supply connection

Type of connection	Screw connection	Clamping range, min.	0.13 mm²
Clamping range, max.	6 mm²	Solid, min. H05(07) V-U	0.5 mm²
Solid, max. H05(07) V-U	6 mm²	Flexible, min. H05(07) V-K	0.5 mm²
Flexible, max. H05(07) V-K	4 mm²	Flexible with sleeve, max.	2.5 mm²
Flexible with sleeve, min.	2.5 mm²	Ferrule with plastic collar, max.	0.5 mm²
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		

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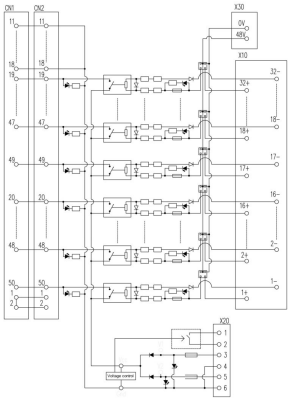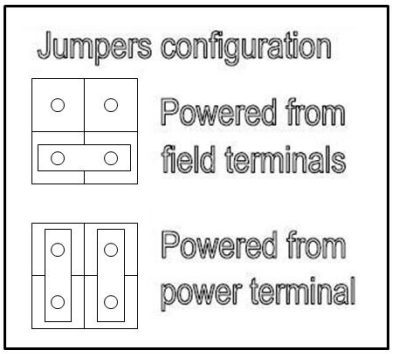
Drawings