

**TBY-ADV151-48-PS-2KB-Z**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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


Similar to illustration

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), LM2NZF 5.08mm
Order No.	<a href="#">1384250000</a>
Type	TBY-ADV151-48-PS-2KB-Z
GTIN (EAN)	4050118185614
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



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	864.77 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, 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	Yes	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	LMNZF 5.08mm
Connection (field side)	LM2NZF 5.08mm	Connection on control side	2 x AKB (50P)

**Rating data**

Mechanical service life 5 x 10<sup>6</sup> 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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## Technical data

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

### Supply connection

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

