

**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.	<a href="#">1384280000</a>
Type	TBY-ADV151-48-PS-2KB-S
GTIN (EAN)	4050118185621
Qty.	1 pc(s).
Available until	2014-05-20

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**Technical data**
**Dimensions and weights**

Depth	95 mm	Depth (inches)	3.74 inch
Height	131 mm	Height (inches)	5.157 inch
Width	317 mm	Width (inches)	12.48 inch
Net weight	910 g		

**Temperatures**

Storage temperature	-40...85 °C	Operating temperature	-25...70 °C
Operating temperature, min.	-25 °C	Operating temperature, max.	70 °C

**General data**

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

**Connection data**

Connection (field side)	LP2N 5.08mm	Connection on control side	2 x AKB (50P)
Connection supply	LP 5.08mm	Number of poles (control side)	50-pole plug

**Rating data**

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

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

Relay type	RSS	Contact material	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
Overvoltage category output/output	III	Pollution severity level	2
Pulse voltage test (1,2/50µs)	1.5 kV	Insulation test voltage	0.35 kVAC
Clearance input/output	≥ 5.5 mm		

**Connection field**

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

Creation date March 8, 2023 10:30:34 AM CET

Catalogue status 03.03.2023 / We reserve the right to make technical changes.

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**Technical data****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 6.0	EC002780	ETIM 7.0	EC002780
ETIM 8.0	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	ECLASS 12.0	27-14-11-52

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
SCIP	9dd73319-d286-43a8-a0b7-6458fd2c03f9

**Approvals**

Approvals



ROHS Conform

**Downloads**

Product Change Notification	<a href="#">20220523 Technical change to TBY interfaces</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

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**Drawings**

