

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

Klingenbergstraße 26

D-32758 Detmold

Germany

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.	1384250000
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.
Last order date	2026-02-10T00:00:00+01:00

TBY-ADV151-48-PS-2KB-Z

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

www.weidmueller.com

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 ⁶ 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

TBY-ADV151-48-PS-2KB-Z

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

www.weidmueller.com

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 ²	Flexible with sleeve, min.	0.25 mm ²
Flexible with sleeve, max.	1.5 mm ²	Flexible, max. H05(07) V-K	1.5 mm ²
Flexible, min. H05(07) V-K	0.2 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
Clamping range, max.	2.5 mm ²	Clamping range, min.	0.13 mm ²
Max. wire cross-section, AWG	AWG 14		

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 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		

