

**RS
TBY-SDV144-F-PS-2KB-S**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Germany
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**Digital interfaces are equipped with 50-pole connectors (KS) and offer numerous advantages, 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.
- Multiple functions are integrated: isolators, fuses with status indicator, relay and status LEDs.

General ordering data

Available until	2014-05-20
Type	TBY-SDV144-F-PS-2KB-S
Order No.	1395370000
Version	Interface, RS, 2 x AKB (50P), LP2N 5.08mm
GTIN (EAN)	4050118207217
Qty.	1 pc(s).

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

Length	134 mm	Length (inches)	5.276 inch
Width	109 mm	Width (inches)	4.291 inch
Height	80 mm	Height (inches)	3.15 inch
Net weight	308 g		

Temperatures

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

General data

LED status display per channel	No	Disconnection per channel	No
Type of test point	No	Switch	No
Fuse per channel	100 mA	LED status of the supply voltage	green
Power supply fuse	2 A		

Connection data

Connection to PLC	Yokogawa ProSafe	Connection to the card	SDV144, SDV521, SDV531, SDV541
Connection on control side	2 x AKB (50P)	Number of poles (control side)	50-pole plug
Connection (field side)	LP2N 5.08mm		

Ratings data

Operating voltage	24 V DC	Max. current per channel	1 A
Total operating current	1 A		

Insulation coordination (EN50178)

Rated insulation voltage	< 50 V AC	Surge voltage category	III
Pollution severity level	2	Pulse voltage test (1,2/50µs)	0.8 kV
Insulation test voltage	0.35 kVAC		

Connection field

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.	0.5 mm ²	Sleeve with plastic collar, max.	2.5 mm ²
Min. wire cross-section, AWG	AWG 26	Max. wire cross-section, AWG	AWG 12
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Stripping length	6 mm		

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Technical data

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 6.0	EC002780	ETIM 7.0	EC002780
eClass 9.0	27-14-11-52	eClass 9.1	27-14-11-52
eClass 10.0	27-14-11-52		

Approvals

Approvals



ROHS Conform

Downloads

Brochure/Catalogue [CAT 4.5 ELECTR 16/17 EN](#)

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Drawings

