

BKP-16DO-SDV541-V1-S**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The digital output 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	2 x AKB (50P)
Order No.	2436230000
Type	BKP-16DO-SDV541-V1-S
GTIN (EAN)	4050118448313
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Height	125 mm	Height (inches)	4.921 inch
Length	376 mm	Length (inches)	14.803 inch
Net weight	4,595 g	Width	168 mm
Width (inches)	6.614 inch		

Temperatures

Storage temperature	-40...85 °C	Operating temperature	-25...50 °C
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General data

Power supply fuse	2 A
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Connection data

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

Ratings data output

Relay type	SIL3
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Insulation coordinates (EN50178)

Rated input insulation voltage	50 V AC / 70 V DC	Rated output insulation voltage	< 300 V AC
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)	6 kV	Insulation test voltage	1.2 kVAC
Clearance input/output	≥ 5.5 mm	Clearance input/input	≥ 0.3 mm
Clearance output/output	≥ 5.5 mm		

Connection field

Clamping range, max.	2.5 mm ²	Clamping range, min.	0.13 mm ²
Flexible with sleeve, max.	2.5 mm ²	Flexible with sleeve, min.	0.2 mm ²
Flexible, max. H05(07) V-K	2.5 mm ²	Flexible, min. H05(07) V-K	0.2 mm ²
Max. wire cross-section, AWG	AWG 14	Min. wire cross-section, AWG	AWG 26
Solid, max. H05(07) V-U	2.5 mm ²	Solid, min. H05(07) V-U	0.2 mm ²
Stripping length	6 mm	Type of connection	Screw connection

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		

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ETIM 6.0	EC002780	ETIM 7.0	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

Approvals

Approvals



ROHS

Conform

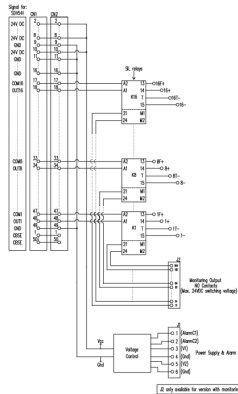
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Drawings



Derating curve safety output

