

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

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 1429-0

Fax: +49 5231 14292083

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**

Type	BKP-16DO-SDV541-V1-S
Order No.	<a href="#">2436230000</a>
Version	2 x AKB (50P)
GTIN (EAN)	4050118448313
Qty.	1 pc(s).

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

Length	376 mm	Length (inches)	14.803 inch
Width	168 mm	Width (inches)	6.614 inch
Height	125 mm	Height (inches)	4.921 inch
Net weight	4,235 g		

**Temperatures**

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

Power supply fuse	2 A
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**Connection data**

Connection to PLC	Yokogawa ProSafe	Connection to the card	SDV541
Connection on control side	2 x AKB (50P)	Number of poles (control side)	50-pole plug
Connection supply	LP 5.08mm		

**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/output	III	Overvoltage category input/input	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**

Type of connection	Screw 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	2.5 mm <sup>2</sup>	Flexible with sleeve, max.	2.5 mm <sup>2</sup>
Flexible with sleeve, min.	0.2 mm <sup>2</sup>	Min. wire cross-section, AWG	AWG 26
Max. wire cross-section, AWG	AWG 14	Stripping length	6 mm

**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		

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**Technical data****Classifications**

ETIM 6.0	EC002780	eClass 6.2	27-14-11-52
eClass 9.1	27-24-22-16		

**Product information**

Descriptive text technical data      For more technical data about SIL relays 1303890000 and 1303760000 check [catalog.weidmueller.com](http://catalog.weidmueller.com)

**Approvals**

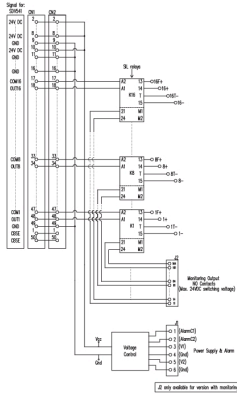
Approvals



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**Drawings**



**Derating curve safety output**

