

BKP-16DO-SDV541-V0-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. | 2461730000 |
| Type | BKP-16DO-SDV541-V0-S |
| GTIN (EAN) | 4050118476965 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 125 mm | Depth (inches) | 4.921 inch |
| Height | 168 mm | Height (inches) | 6.614 inch |
| Width | 376 mm | Width (inches) | 14.803 inch |
| Net weight | 3,875 g | | |

Temperatures

| | | | |
|-----------------------------|-------------|-----------------------------|-------------|
| Storage temperature | -40...85 °C | Operating temperature | -25...50 °C |
| Operating temperature, min. | -25 °C | Operating temperature, max. | 50 °C |

General data

| | |
|-------------------|-----|
| Power supply fuse | 2 A |
|-------------------|-----|

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 |
|------------|------|

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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Catalogue status 20.01.2023 / We reserve the right to make technical changes.

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Technical data

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 |
|------------|----------------|

Approvals

Approvals



Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Catalogues | Catalogues in PDF-format |

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Drawings

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