

37135E



IKD 1

Digital I/O Expansion Board



Manual
Software version 1.00xx

Manual 37135E

Appendix C. Technical Data

Ambient variables -----

- Power supply (V_{aux})-----12/24 Vdc (6.0 to 36.0 Vdc)
- Intrinsic consumption-----max. 3 W
- Ambient temperature for storage ----- -40 to 85 °C / -40 to 185 °F (P/N: 8440-2028)
- Ambient temperature for storage ----- -30 to 80 °C / -22 to 176 °F (P/N: 8440-1041)
- Ambient temperature for operation----- -20 to 70 °C / -4 to 158 °F
- Ambient humidity ----- 95 %, not condensing

Discrete inputs ----- **galvanically isolated**

- Input range ($V_{Cont., dig.input}$)-----Rated voltage 12/24 Vdc (6 to 32 Vdc)
- Input resistance ----- approx. 6.8 k Ω

Relay outputs ----- **potential free**

- Contact material AgCdO
- General purpose (GP) ($V_{Cont., relay output}$)
 - AC ----- 2.00 Aac@250 Vac
 - DC -----2.00 Adc@24 Vdc
 - 0.36 Adc@125 Vdc
 - 0.18 Adc@250 Vdc
- Pilot duty (PD) ($V_{Cont., relay output}$)
 - AC ----- B300
 - DC -----1.00 Adc@24 Vdc
 - 0.22 Adc@125 Vdc
 - 0.10 Adc@250 Vdc

Interface, Service interface -----

- Version RS-232, USB
- Signal level----- 5 V
- Connection kit: DPC-RS-232 P/N 5417-557, DPC-USB P/N 5417-1251

Interface, CAN ----- **galvanically isolated**

- Insulation voltage (continuously)----- 100 Vdc
- Insulation test voltage (≤ 5 s) ----- 1,000 Vac
- Version CAN-Bus
- Internal line termination----- not available

Housing

- **Extrusion profile** for fastening onto a DIN rail/C profile -----Um 122
- Dimensions----- 168 × 128 × 51 mm
- **Vibration absorber** ----- M4×6
- Dimensions----- 152 × 122 × 52 mm
- Wiring Screw-plug terminals 2.5 mm²
 - Recommended locked torque 0.5 Nm
 - use 60/75 °C copper wire only
 - use class 1 wire only or equivalent
- Weight approx. 360 g

Vibration

- **Frequency range - sine sweep** ----- 5 Hz to 100 Hz
- Acceleration ----- 4 G
- Standards ----- EN 60255-21-1 (EN 60068-2-6, Fc), Lloyd's Register, Vibration Test2,
----- SAEJ1455 Chassis Data
- **Frequency range – random** ----- 10 Hz to 500 Hz
- Power intensity ----- 0.015 G²/Hz
- RMS value ----- 1.04 Grms
- Standards ----- MIL-STD 810F, M514.5A, Cat.4, Truck/Trailer tracked-restrained
----- Cargo, Fig. 514.5-C1

Shock

- Shock ----- 40 G, Saw tooth pulse, 11 ms
- Standards ----- EN 60255-21-2, MIL-STD 810F, M516.5, Procedure 1

Protection

- Protection type ----- IP 20
- EMC test (CE) ----- tested according to applicable EN guidelines
- Type approval ----- UL/cUL, Ordinary Locations, File No.: 231544 (P/N: 8440-2028)