



DI216, DI232/x Digital Input Modules

The digital input modules DI216, DI232, DI232 CC and DI232/np1 are used to connect up to 16 or 32 digital sensors to the M1 controller.

- Digital input modules with 16 or 32 inputs
- Current sinking logic > 2 mA acc. to EN 61132 type 1
- DI216, DI232, DI232 CC, DI232/np1:
input voltage: nom. 24 VDC (18 to 34 VDC)
- Inputs 1 and 2 configurable as interrupt inputs
- Galvanic isolation of inputs from the system
- Status display for each channel via LED
- Sink / source inputs (DI232/np¹)

| Item | Item-No. |
|-----------|-------------|
| DI216 | 00009002-00 |
| DI232 | 00008997-00 |
| DI232 CC | 00016411-00 |
| DI232/np1 | 00011516-00 |

| | DI216 | DI232, DI232 CC | DI232/np1 |
|-----------------------------------|----------------------|----------------------|----------------------------------|
| Inputs | | | |
| Number of inputs | 16 | 32 | 32 |
| Isolated input groups | 2 (1-8 / 9-16) | 2 (1-16 / 17-32) | 4 (1-8 / 9-16), (17-24/25-32) |
| Input voltage | 24 VDC | 24 VDC | 24 VDC |
| Internal resistance | Approx. 6 k Ω | Approx. 6 k Ω | < 4,7 k Ω |
| Low level | -34 to +5 V | -34 to +5 V | $ U_C - U_{IN} < 5 \text{ V}$ |
| High level | +15 to +34 V | +15 to +34 V | $ U_C - U_{IN} > 15 \text{ V}$ |
| Input delay (normally via filter) | 3 ms | 3 ms | 100 μs |
| Interrupt inputs | Max. 2 | Max. 2 | Max. 2 |
| Input delay (normally) | 50 μs | 50 μs | 50 μs |
| Galvanic isolation from system | 300 V | 300 V | 500 V |
| Galvanic isolation of groups | 500 V | 500 V | 500 V |
| Current consumption (via BS2xx) | 70 mA bei 5 V | 80 mA bei 5 V | 80 mA at 5 V |

| DI216, DI232/x | | |
|---------------------------------|--|------------------------------|
| Approvals / Certificates | | |
| General | CE, cULus, CCC | |
| Marine | DNV GL, LR, ABS, BV | |
| Ambient conditions | Standard | ColdClimate (❄) |
| Operating temperature | -30 to +60 °C | |
| Rel. humidity operation | 5 to 95 % without condensation | 5 to 95 % with condensation |
| Storage temperature | -40 to +85 °C | |
| Rel. humidity storage | 5 to 95 % with condensation | |
| Pollution degree | 2 (without condensation; according to IEC 60664-1) | 2 (according to IEC 60664-1) |

| Order Codes | | |
|--------------------|-------------|--|
| Item | Item No. | Description |
| DI216 | 00009002-00 | Digital input module; 16x 24V; 3ms filter; 2 groups; 2 interrupt channels; 50 μs delay; isolated |
| DI232 | 00008997-00 | Digital input module; 32x 24V; 3ms filter; 2 groups; 2 interrupt channels; 50 μs delay; isolated |
| DI232 CC | 00016411-00 | Like DI232; ColdClimate (❄) |
| DI232/np1 | 00011516-00 | Digital input module; 32x 24V; 100 μs filter; sink / source; 4 groups; 2 interrupt channels; 50 μs delay; isolated |
| Accessories | | |
| KZ-DI216 B+C | 00011973-50 | Terminal set Phoenix cage clamp (3x KZ 51/10) with labeling strip and coding elements |
| KZ-DI232 B+C | 00012004-50 | Terminal set Phoenix cage clamp (3x KZ 51/12) with labeling strip and coding elements |
| SV-DI216 B+C | 00010866-50 | Terminal set Phoenix screw frontside (2x SV 51/10) with labeling strip and coding elements |
| SV-DI232 B+C | 00010867-50 | Terminal set Phoenix screw frontside (2x SV 51/12) with labeling strip and coding elements |