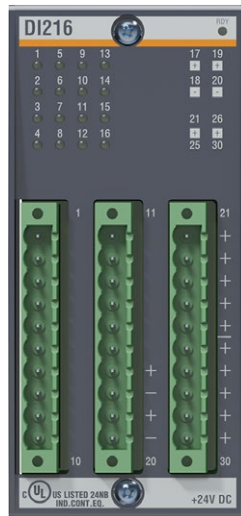


Digital Input/Output Modules



Digital Input Modules DI216, DI232/x

The digital input modules DI216, DI232, DI232 CC, DI232/np1 and DI232/48 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/np: input voltage: nom. 24 VDC (18 to 34 VDC)
- DI232/48: input voltage: nom. 48 VDC (30 to 58 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
DI232/48	00012162-00

Digital Input/Output Modules

	DI216	DI232, DI232 CC
Inputs		
Number of inputs	16	32
Isolated input groups	2 (1-8 / 9-16)	2 (1-16 / 17-32)
Input voltage	24 VDC	24 VDC
Internal resistance	Approx. 6 kΩ	Approx. 6 kΩ
Low level	-34 to +5 V	-34 to +5 V
High level	+15 to +34 V	+15 to +34 V
Input delay (normally via filter)	3 ms	3 ms
Interrupt inputs	Max. 2	Max. 2
Input delay (normally)	50 μs	50 μs
Galvanic isolation from system	300 V	300 V
Galvanic isolation of groups	500 V	500 V

	DI232/np1	DI232/48
Inputs		
Number of inputs	32	32
Isolated input group	4 (1-8 / 9-16), (17-24/25-32)	2 (1-16 / 17-32)
Input voltage	24 VDC	48 VDC
Internal resistance	< 4,7 kΩ	< 7,5 kΩ
Low level	$ U_C - U_{IN} < 5 \text{ V}$	-34 to +10 V
High level	$ U_C - U_{IN} > 15 \text{ V}$	+30 to +58 V
Input delay (normally via filter)	100 μs	3 ms
Interrupt inputs	Max. 2	Max. 2
Input delay (normally)	50 μs	20 μs
Galvanic isolation from system	500 V	500 V
Galvanic isolation of groups	500 V	500 V
Current consumption (via BS2xx)	80 mA at 5 V	88 mA at 5 V

Digital Input/Output Modules

DI216, DI232/x		
Approvals / Certificates		
General	CE, UL/cUL, CCC	
Marine	GL/DNV, 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	
Order codes		
DI216	00009002-00	Digital input module; 16x 24V; 3ms filter; 2 groups; 2 interrupt channels; 50µs delay; isolated
DI232	00008997-00	Digital input module; 32x 24V; 3ms filter; 2 groups; 2 interrupt channels; 50µs delay; isolated
DI232 CC	00016411-00	Like DI232; ColdClimate (✱)
DI232/np1	00011516-00	Digital input module; 32x 24V; 100µs filter; sink / source; 4 groups; 2 interrupt channels; 50µs delay; isolated
DI232/48	00012162-00	Digital input module; 32x 48V; 3ms filter; 2 groups; 2 interrupt channels; isolated

Accessories DI216, DI232/x		
Item	Item no.	Description
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