DI216, DI232/x
Digital Input Modules

The digital input modules DI216, DI232, DI232 CC and DI232/np1 are suitable for connecting up to 16 or 32 digital sensors to the M200 controller.

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

Part type designation	Part number
DI216	00009002-00
DI232	00008997-00
DI232 CC	00016411-00
DI232/np1	00011516-00

Inputs	DI216	DI232, DI232 CC	DI232/np1
Number of inputs	16	32	32
Separate input groups	2 (1-8/9-16)	2 (1-16/17-32)	4 (1-8 /9-16), (17-24/25-32)
Input voltage	24 V DC	24 V DC	24 V DC
Internal resistance	Approx. 6 kΩ	Approx. 6 kΩ	< 4.7 kΩ
Low-level	-34 V to +5 V	-34 V to +5 V	$\|U_C - U_{IN}\| < 5$ V
High level	+15 V to +34 V	+15 V to +34 V	$\|U_C - U_{IN}\| > 15$ V
Input delay (typically through filter)	3 ms	3 ms	100 µs
Interrupt inputs	Max. 2	Max. 2	Max. 2
Input delay (typ.)	50 µs	50 µs	50 µs
Galvanic isolation from the system	300 V	300 V	500 V
Galvanic isolation between groups	500 V	500 V	500 V
Current consumption (via BS2xx)	70 mA at 5 V	80 mA at 5 V	80 mA at 5 V
Approvals/Certificates			
General	CE, UKCA, cULus		
Marine	ABS, BV, DNV, KR, LR, NK, RINA		

Environmental conditions	Standard	ColdClimate (❄)
Operating temperature	-30 °C to +60 °C	
Relative humidity, operation	5 % to 95 % noncondensing	5 % to 95 % with condensation
Storage temperature	-40 °C to +85 °C	
Relative humidity, storage	5 % to 95 % with condensation	
Pollution degree (IEC 60664-1)	2 (noncondensing)	2

Order data

Part type designation	Part number	Description
DI216	00009002-00	Digital input module; 16x 24 V; 3 ms filter; 2 groups; 2 interrupt channels; 50 µs delay; isolated
DI232	00008997-00	Digital input module; 32x 24 V; 3 ms 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 24 V; 100 µs filter; sink/source; 4 groups; 2 interrupt channels; 50 µs delay; isolated

Accessories

Part type designation	Part number	Description
KZ-DI216 B+C	00011973-50	Terminal set Phoenix cage clamp (3x KZ 51/10) with labeling strips + keying elements
SV-DI216 B+C	00010866-50	Terminal set Phoenix screw frontside (3x SV 51/10) with labeling strips + keying elements
KZ-DI232 B+C	00012004-50	Terminal set Phoenix cage clamp (3x KZ 51/12) with labeling strips + keying elements
SV-DI232 B+C	00010867-50	Terminal set Phoenix screw frontside (3x SV 51/12) with labeling strips + keying elements