DIO216/x, DIO232
Digital Input/Output Modules

The digital input/output modules DIO216/x and DIO232 can be used to operate receivers of digital control devices such as contactors, relays, pneumatic and hydraulic valves as well as for reading signals from digitally operating sources such as sensors, photocells or switches.

Features

- 16/32 digital channels
- 16 channels can be configured as input or output
- Configurable interrupt inputs
- Status display for each channel via LED
- Supply voltage 18 V DC to 34 V DC
- Supply voltage protected against reverse polarity
- Cost effective and space saving
- Full wiring without extra potential rails (3-wire, only DIO216)
- Configurable input filter (DIO232)

Part type designation	Part number
DIO216	00010615-00
DIO216/4	00010892-00
DIO216/4 CC	00016141-00
DIO232	00013034-00
DIO232 CC	00019502-00

DIO216/x, DIO232

Inputs	DIO216	DIO216/4 DIO216/4 CC	DIO232 DIO232 CC
Number	Max. 16	Max. 16	16 to 32
Input voltage range (H)	15 V DC to 34 V DC		
Input voltage range (L)	0 V DC to 5 V DC		
Input filter (typ.)	600 µs	600 µs	40 µs to 365 ms, default 3 ms
Internal resistance	6.8 kΩ		
Status indication (LED)	Green		
Interrupt inputs	1	1	8
Outputs	**DIO216**	**DIO216/4 DIO216/4 CC**	**DIO232 DIO232 CC**
Number	Max. 16	Max. 16	Max. 16
Output voltage range	18 V DC to 34 V DC		
Output current per channel (max.)	1 A	1 A	0.5 A
Total current (max.)	12 A	16 A	8 A
Status indication (LED)	Green		
Switching frequency (max. ohmic inductive load)	1 kHz		
External power supply			
Reverse polarity protection	Yes		
Galvanic isolation for the system	500 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
DIO216	00010615-00	Digital input/output module; 16x DIO; 24 V / 1 A; 600 µs filter; 1 group; 1 interrupt channel; 50 µs delay; 3-wire system; isolated
DIO216/4	00010892-00	Digital input/output module; 16x DIO; 24 V / 1 A; 600 µs filter; 4 groups; 1 interrupt channel; 50 µs delay; 3-wire system; isolated
DIO216/4 CC	00016141-00	Like DIO216/4; ColdClimate (❄)
DIO232	00013034-00	Digital input/output module; 16x DI; 40 µs to 365 ms configurable filter; 16x DIO; 24 V / 0.5 A; 2 groups; 8 interrupt channels; 35 µs delay; isolated
DIO232 CC	00019502-00	Like DIO232; ColdClimate (❄)

Accessories

Part type designation	Part number	Description
KZ-DIO216 B+C	00011974-50	Terminal set Phoenix cage clamp (3x KZ 51/12; 1x KZ 51/02) with labeling strips and keying elements

Part type designation	Part number	Description
SV-DIO216 B+C	00012078-50	Terminal set Phoenix screw frontside (3x SV 51/12; 1x SV 51/02) with labeling strips and coding elements
KZ-DIO216/4 B+C	00011975-50	Terminal set Phoenix cage clamp (3x KZ 51/12; 1x KZ 51/02) with labeling strips and keying elements
KZ-DIO232 B+C	00013742-50	Terminal set Phoenix cage clamp (3x KZ 51/12) with labeling strips and keying elements
SS-DIO232 B+C	00015816-00	Terminal set Phoenix screw frontside (3x SS 51/12) with labeling strips and coding elements