

Inter Control digsy^Å® fusion-S

- The digsy^Å fusion-S is a modular, 2nd generation, 32-bit safety controller for mobile applications which offers Performance Level (PL) d, KAT 3 according to EN ISO 13849.

Highlights

- 32-bit system with high computing power
- Free programmable with CodesysS V3.5 SIL-2
- Separation of safety and standard functions
- Multi-tasking capability
- Four independent CAN-interfaces with CANopen/CANopen Safety/J1939-protocol
- Field friendly software exchange via USB stick
- FRAM memory (data back up on power-fail)
- Status display with ten bi-colour LED's
- Power supply voltage monitor
- Temperature monitor

Technical data

System:

- Processor: 32-bit, 200MHz, Lock-Step-Mode, Floating Point Unit
- RAM: 16 MB thereof up to 4 MB for variables available
- Flash: 35 MB
 - thereof up to 2 MB for the standard program available
 - thereof up to 1,5 MB for the safety program available
 - thereof up to 16 MB for the file system available
- Serial Flash: 64 MB for data logging
- FRAM: 32 kB - thereof 2x 8 kB for safe retain data

Interfaces

- 4 CAN interfaces (CANopen, CANopen Safety, J1939, proprietary)
- 2 EIA-232 (RS-232) interfaces, one free programmable
- 1 Ethernet interface (UDP, TCP/IP)
- 1 USB interface for memory sticks

Outputs:

- 16 PWM outputs 12 V/24 V, 1,5 A (3 A) or
- 16 digital outputs 12 V/24 V, 1,5 A (3 A)
- 2 analog outputs 0 mA to 20 mA, 12 bit

Configurable in/outputs per module (up to 5 possible)

- 12 Outputs
 - PWM, current control - safe
 - Digital output - safe
 - 8x 2,5 A
 - 4x 4 A
- 6 Out/inputs
 - Digital output, 6x 4 A - safe
 - Digital input, high active - safe
- 6 Inputs
 - Digital input, high active - safe
 - Digital input, low active
- 8 Inputs
 - Digital input, high active - safe
 - Counter/pulse input - safe (by application)
 - Digital input, high active - safe
- 16 Inputs
 - Analog input:
 - 0 to 20 mA
 - 0 to 10 V
 - 0 to 32 V

All outputs are overload protected and short-circuit proof

Front panel

- 7 LED's for system status indication
- 3 LED's for application status indication

General features

- Operating voltage 8 to 32 V
- Operating temperature: -40 °C to +80 °C
- Aluminum housing with Goretex filter, rock fall and saltwater resistant
- Shock and vibration proof
- EMC proof according to automotive standards

Contact

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For download of brochures please visit www.outdoor-controls.de

Features

NMT	NMT slave NMT master
Error control	Node guarding Life guarding Heartbeat producer Heartbeat consumer: 127
Boot-up	Yes
Node ID range	From 1 to 127
Node ID	Software switch
CANopen bit-rates	10 kbit/S 20 kbit/s 50 kbit/s 125 kbit/s 250 kbit/s 500 kbit/s 800 kbit/s 1 000 kbit/s
Type of bit-rate adjustment	Software switch
RPDOs	512
TPDOs	512
PDO modes	Event-triggered Triggered by event-timer Synchronous (cyclic) Synchronous (acyclic)
PDO linking	Yes
PDO mapping	Static
SDO server	127
SDO client	127
Emergency producer	Yes
Emergency consumer	127 message(s)
Sync producer	Yes
Sync counter	No
Time stamp	No

Additional functions	-
CANopen version	CiA 301 V4.0.2
Frameworks	CiA 302
Device profiles	-
Certified	No
Availability	In stock