



Modular controller for mobile applications, consisting of one PLC module and up to 4 I/O modules.

Scalable from 52 to 268 multifunctional I/O's.

Programmable with CODESYS 3.5 according to IEC-61131-3.

digsy® fusion G

The *digsy*® fusion G is a rugged control system for mobile applications. Installed in a die casted aluminium housing the electronic is protected against shock, vibration, water and dust. A powerful 200 MHz CPU & FPU ensures the reliable processing of demanding control tasks.

Extensive memory capacity supports the storage of vast process and logging data.

The direct connection of modem, router, USB-stick or laptop is supported by Ethernet and USB interfaces.

Technical Data of PLC module

digsy® fusion G

- 32-bit Processor, 200 MHz
 - 32-bit Floating-Point-Unit
 - RAM: 16 MB - thereof up to 4 MB for variables
 - Flash: 19 MB - thereof up to 1.7 MB for the application program - thereof up to 15 MB for the file system
 - FRAM: 32 kB - thereof 2x 8 kB for retain data
 - 4x CAN (CANopen, J1939, Layer-2)
 - 1x Ethernet (TCP/IP, UDP, FTP)
 - 1x USB (Host, V2.0)
 - 2x RS-232 (Modbus RTU, free programmable)
- | | |
|--------------------------------|---|
| 12 outputs, multifunctional | PWM, current controlled
Digital output: 8x 2.5A, 4x 4A |
| 6 out-/inputs, multifunctional | Digital output 4,0 A |
| 6 inputs, multifunctional | Digital input, high-active
Digital input, low-active |
| 8 inputs, multifunctional | Digital input, high-active
Counter / pulse-input |
| 16 inputs, multifunctional | Digital input, high-active
Analog input: 0-20 mA, 0-10 V, 0-32 V |
| 2 Reference voltage outputs | 5V/10V, switchable, max. 50mA |
| 1 Reference current out | 50mA, switchable |
| 1 Sensor supply output | VIM, switchable, max. 400mA |
- Operating voltage: 8...32V
 - Operating temperature: -40°C...+80°C (-40°F...+176°F)
 - Aluminum housing with Goretex filter, rock fall and saltwater resistant
 - Shock- and vibration proof
 - EMC proof according to automotive standards
 - Integrated load-dump protection
 - Environmental protection according to IP6K9K / IP6K7
 - Dimensions:
 - appr. 161,5 x 252 x 67 mm (52 / 106 I/O's)
 - appr. 161,5 x 252 x 115 mm (160 / 214 I/O's)
 - appr. 161,5 x 252 x 162 mm (268 I/O's)
 - E1 certification

Inputs/Outputs per I/O module

16 out-/inputs, multifunctional	PWM, current controlled Digital output, 8x 2.5 A, 8x 4A Digital input, high-active
4 out-/inputs, multifunctional	Digital output 4,0 A Digital input, high-active, low-active
8 out-/inputs, multifunctional	Digital output 2,0 A Digital input, high-active
2 analog outputs	0-10V, max. 10mA
1 reference voltage output	5V/10V, switchable, max. 50mA
4 inputs, multifunctional	Digital input, high-active Counter inputs, pulse-input
8 inputs, multifunctional	Digital input, high-active Analog input: 0-20 mA, 0-10 V, 0-32 V
4 inputs, multifunctional	Digital input, high-active Analog input: 0-1kΩ, 0-10kΩ, 0-10V, 0-32V
7 inputs	Digital input, high-active

Order codes

digsy® fusion G	PLC	52 I/O's	4888.52.001
digsy® fusion G	PLC + 1 I/O module	106 I/O's	4888.52.006
digsy® fusion G	PLC + 2 I/O modules	160 I/O's	4888.52.008
digsy® fusion G	PLC + 3 I/O modules	214 I/O's	4888.52.011
digsy® fusion G	PLC + 4 I/O modules	268 I/O's	4888.52.015

Accessories

- Connector set, 64 poles	4305.51.001
- Connector with 3m cable, 64 wires	4306.20.001*
- Y-junction M12, for CANbus	4305.37.001*
- Sealing screw for unused M12-sockets	4305.84.001*
- CAN-terminator, M12 connector	4305.85.001*
- CAN-cable, 2m, M12-connector, loose end	4308.32.041*
- CAN-cable, 2m, M12-connector, M12-socket	4308.32.043*
- LAN-cable, 2m, M12-connector	4308.33.041*
- RS-232 cable COM1, 2m, M12-connector, D-Sub9	4308.34.044*
- RS-232 cable COM2, 2m, M12-connector, D-Sub9	4308.34.045*
- USB-cable, 1m, M12-connector, USB-A	4308.36.041*
- Cable-Kit, contains the articles marked with *	4306.51.010
- Measurement box digsy® fusion	4805.05.001