



**High performance safety controller for mobile applications.**

**Up to 4 GB file system and 15 MB application memory.**

**8 CAN interfaces, 2 Ethernet ports and USB.**

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

**CODESYS 3.5 SIL 2 programmable (IEC-61131-3)**

### Technical Data of PLC module

#### **digsy® fusion S-P**

- Safety controller with PLd, CAT 2 & 3 acc. to EN ISO 13849
- 400 MHz, 32 bit CPU
- RAM: 16 MB + 32 MB
- Flash: 35 MB + 32 MB (therefrom 16 MB + 32 MB with file system)
- CF-Card: 1 or 4 GB with file system
- FRAM: 32 kB + 32 kB non-volatile memory
- 8x CAN-interfaces (CANopen, CANopenSafety, J1939, proprietary)
- 2x RS-232 interfaces (Modbus RTU / free programmable)
- 2x Ethernet with switch (OPC UA, FTP, UDP, TCP/IP, Modbus TCP)
- 1x USB 2.0 (Host)
- Webserver
- RTC (Real time clock)
- 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 (1 or 2 modules)  
appr. 161,5 x 252 x 115 mm (3 or 4 modules)  
appr. 161,5 x 252 x 162 mm (5 modules)
- E1 certification

### Inputs/Outputs PLC module and safe I/O module

|                                |                                              |
|--------------------------------|----------------------------------------------|
| 12 outputs, multifunctional    | PWM, current controlled - safe               |
| 6 out-/inputs, multifunctional | Digital output: 8x 2,5A, 4x 4A - safe        |
| 6 inputs, multifunctional      | Digital output 4,0 A - safe                  |
| 8 inputs, multifunctional      | Digital input, high-active                   |
| 16 inputs, multifunctional     | Digital input, high-active - safe            |
| 2 Reference voltage outputs    | Digital input, low-active                    |
| 1 Reference current out        | Digital input, high-active - safe            |
| 1 Sensor supply output         | Counter / pulse-input - safe                 |
|                                | Digital input, high-active - safe            |
|                                | Analog input: 0-20 mA, 0-10 V, 0-32 V - safe |
|                                | 10V, switchable, max. 50mA                   |
|                                | 50mA, switchable                             |
|                                | VIM, max. 400mA, switchable                  |

## digsy® fusion S-P

The safety controller **digsy® fusion S-P** is focusing on high demand applications. With its powerful 400 MHz CPU & FPU it outperforms existing automation solutions and enables designers to realize extraordinary functionality.

Vast memories allow the storage of detailed logging data over a long period as well as extensive configuration data like load charts for entire machine series.

8 CAN buses, 2 Ethernet ports (OPC UA, FTP, UDP, TCP/IP), USB, and RS-232 enable the collection and transmission of all typical machine data. The integrated web server ensures easy remote access..

### Inputs/Outputs per standard I/O module

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

### Order codes

|                                                         |           |             |
|---------------------------------------------------------|-----------|-------------|
| digsy® fusion S-P PLC                                   | 52 I/O's  | 4888.13.301 |
| digsy® fusion S-P PLC + 1 safe I/O module               | 104 I/O's | 4888.13.302 |
| digsy® fusion S-P PLC + 1 standard I/O module           | 106 I/O's | 4888.13.316 |
| digsy® fusion S-P PLC + 2 safe I/O modules              | 156 I/O's | 4888.13.304 |
| digsy® fusion S-P PLC + 3 safe I/O modules              | 208 I/O's | 4888.13.305 |
| digsy® fusion S-P PLC + 1 safe + 2 standard I/O modules | 212 I/O's | 4888.13.322 |
| digsy® fusion S-P PLC + 1 safe + 3 standard I/O modules | 266 I/O's | 4888.13.331 |
| digsy® fusion S-P PLC + 2 safe + 1 standard I/O modules | 158 I/O's | 4888.13.320 |
| digsy® fusion S-P PLC + 3 safe + 1 standard I/O modules | 262 I/O's | 4888.13.326 |
| digsy® fusion S-P PLC + 2 safe + 2 standard I/O modules | 264 I/O's | 4888.13.328 |

|                                                  |  |              |
|--------------------------------------------------|--|--------------|
| <b>Accessories</b>                               |  |              |
| - 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  |