



## *digsy*<sup>®</sup> fusion S-P

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

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

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

**Scalable from 48 up to 192 multifunctional I/O's, each configurable as safe or standard.**

**CODESYS 3.5 SIL2 programmable.**

The safety controller *digsy*<sup>®</sup> 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. Due its connectivity featuring 8 CAN busses, 2 Ethernet ports, USB and RS-232 it is able to gather all common machine data, store them and transmit them whenever needed. Protocols from CANopen, CANopen-Safety up to Ethernet OPC UA, FTP, UDP and TCP/IP are supported. Easy access via Webserver available.

### Technical data

- 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 (thereof 16 + 32 MB with file system)
  - Flash: 64 MB for data logging + 1 to 4 GB with file system
  - FRAM: 32 kB + 32 kB none-volatile memory
  - 8x CAN (CANopen, CANopenSafety, J1939, proprietary)
  - 2x RS-232, free programmable
  - 2x Ethernet with switch (OPC UA, FTP, UDP, TCP/IP)
  - 1x USB 2.0 (Host)
  - Webserver
  - RTC (Real time clock)
- |                                      |  |
|--------------------------------------|--|
| 12 to 48 Outputs multifunctional:    | PWM, current control - Safe<br>Digital output - Safe<br>8x 2,5 A<br>4x 4,0 A                       |
| 6 to 24 Out-/inputs multifunctional: | Digital output 6x 4,0 A - Safe<br>Digital input/high-active - Safe                                 |
| 6 to 24 Inputs multifunctional:      | Digital input/high-active - Safe<br>Digital input/low-active                                       |
| 8 to 32 Inputs multifunctional:      | Digital input/high-active - Safe<br>Counter/puls-input - Safe                                      |
| 16 to 64 Outputs multifunctional:    | Digital input/high-active - Safe<br>Analog input - Safe<br>0 ... 20 mA<br>0 ... 10 V<br>0 ... 32 V |
- Operating voltage: 8 ... 32 V
  - Operating temperature: -40 °C ... +80 °C/- 40 °F ... +176 °F
  - Aluminum housing with Goretex filter and saltwater resistant
  - Shock, vibration and rockfall proof
  - EMV proof according to automotive standards
  - Environmental protection according to IP6K9K/IP6K7
  - Dimensions: appr. 161,5 x 252 x 67 mm (small housing)  
appr. 161,5 x 252 x 115 mm (medium housing)  
appr. 161,5 x 252 x 162 mm (large housing)

### Order codes

<i>digsy</i> <sup>®</sup> fusion S-P - 48 I/O's	4888.03.301
<i>digsy</i> <sup>®</sup> fusion S-P - 96 I/O's	4888.03.302
<i>digsy</i> <sup>®</sup> fusion S-P - 144 I/O's	4888.03.303
<i>digsy</i> <sup>®</sup> fusion S-P - 192 I/O's	4888.53.304

### Accessories

- Connector set, 64 poles	4305.51.001
- Connector with 3 m cable, 64 wires	4306.20.001*
- Measurement box, for trouble shooting	4805.05.001
- 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, 2 m, M12-connector, loose end	4308.32.041*
- CAN-cable, 2 m, M12-connector-socket	4308.32.043*
- LAN-cable, 2 m, M12-connector	4308.33.041*
- RS-232 cable COM1, 2 m, M12-connector-D-Sub	4308.34.044*
- RS-232 cable COM2, 2 m, M12-connector-D-Sub	4308.34.045*
- USB-cable, 1 m, M12-connector-USB-A	4308.36.041*
- LAN-USB adaptor	4308.38.001*
- Cable-Kit, contains the with * marked articles	4306.51.010



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