



## *digsy*<sup>®</sup> fusion E

**Extremely compact, Low-Cost / High-Performance controller for mobile applications**

**The safety version features an integrated Emergency-Stop function (acc. to DIN EN ISO 13850) for direct Emergency-Stop button connection**

**47 multifunctional I/O's, thereof up to 31 outputs**

**Freely programmable acc. to IEC-61131-3 with CODESYS 3.5**

The compact controller *digsy*<sup>®</sup> fusion E has been developed for a range of applications which require a compact design, combined with a high I/O-concentration. The integrated Emergency-Stop functionality additionally helps to save space and to reduce the system costs. Thus the *digsy*<sup>®</sup> fusion E offers all features which are necessary to automate a vehicle or machine completely. Furthermore the *digsy*<sup>®</sup> fusion E also serves as a cost effective I/O expansion module in complex, distributed systems.

3 CAN-busses, one Ethernet port and one USB-Interface complete the features of the *digsy*<sup>®</sup> fusion E.

### Technical data

#### *digsy*<sup>®</sup> fusion E

- Processor: 32-bit Controller, 200 MHz, Floating-Point-Unit
  - RAM: 2,25 MB
  - Flash: 3 MB
  - EEPROM: 8kB for retain data
  - 3x CAN-interface (CANopen, J1939, proprietary)
  - 1x Ethernet (TCP/IP, UDP) - Optional
  - 1x USB (Host V2.0) - Optional
  - 4x LED's
- |                            |                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------|
| 8 Out-/inputs multifunct.: | Digital output, 2 A<br>Digital input, high-active                                     |
| 4 Out-/inputs multifunct.: | Digital output, 4 A<br>Digital input, high/low-active                                 |
| 8 Out-/inputs multifunct.: | Digital output, 2,5 A<br>PWM-output, current control<br>Digital input, high-active    |
| 8 Out-/inputs multifunct.: | Digital output, 4 A<br>PWM-output, current control<br>Digital input, high-active      |
| 2 Outputs:                 | Analog output, 0...10V, max. 10mA                                                     |
| 1 Output:                  | Reference voltage, 5V, 10V, max. 50mA                                                 |
| 4 inputs multifunctional:  | Digital input, high-active,<br>Counter input, 50 kHz or 2x AB-counter                 |
| 8 inputs multifunctional:  | Digital input, high-active<br>Analog input:<br>0...20 mA, 0...10 V, 0...32 V          |
| 4 inputs multifunctional:  | Digital input, high-active<br>Analog input:<br>0...1kΩ, 0...100kΩ, 0...10 V, 0...32 V |
- Operating voltage: 8...32V
  - Operating temperature: -40°C...+80°C / -40°F...+176°F
  - Aluminium housing with Goretex filter, rock fall and salt water resistant
  - Shock- and vibration proof
  - EMC proof according to automotive standards
  - Integrated Load-Dump protection
  - Environmental protection according to: IP6K9K / IP6K7
  - Dimensions: appr. 190 x 162 x 44 mm
  - PLb acc. to EN ISO 13849
  - E1 certification

### Order codes

<i>digsy</i> <sup>®</sup> fusion E	4888.61.010
<i>digsy</i> <sup>®</sup> fusion E – Ethernet	4888.61.020
<i>digsy</i> <sup>®</sup> fusion E – USB	4888.61.030
<i>digsy</i> <sup>®</sup> fusion E Safety	4888.61.110
<i>digsy</i> <sup>®</sup> fusion E Safety – Ethernet	4888.61.120
<i>digsy</i> <sup>®</sup> fusion E Safety – USB	4888.61.130

#### Accessories

- Connector-set, 64 poles	4305.15.001
- Connector with 3m cable, 64 poles	4306.20.001
- LAN-cable, 2m, M12-connector	4308.33.041
- USB-cable, 1m, M12-connector, USB-A	4308.36.041
- Measurement box <i>digsy</i> <sup>®</sup> fusion E	4805.05.002