Diagnostic and control unit DC 650

Technical Datasheet

Low integration effort

- Integrated system solution
- Plug and play
- Fieldbus interface for communication with customer control system

Easily accessible service

- Remote maintenance function
- System check without downtime
- Flexible connectivity with WiFi or LAN
- Download of logfiles via browser
- Compatible with HTML based HMI

Condition monitoring

- Wear monitoring
- Critical condition detection
- Enabling digitalization through cloud connection

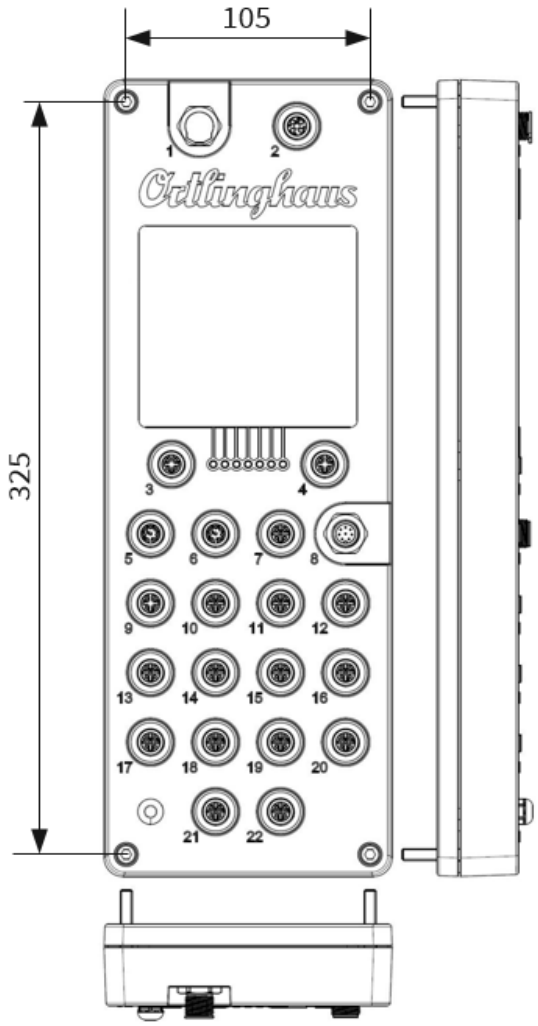


Technical data	DC650-V2.9
Processor	ARM® 32-bit Cortex®-M
Memory	2Mbyte Flash, 384+4 Kbyte SRAM
Diagnose LED	1x Status, 1x Warning, 1x Error, 2x Application, 1x Safety Warning, 1x Safety Error
Clock	Buffered clock for time and date
Connections	M12 – Power Supply T-Coded - Ethernet D-Coded – all other A-Coded
Power supply	19 to 36VDC Galvanically isolated, redundant
Interfaces	1x Ethernet 10/100 Mbit/s
Bus protocol	Profinet / Modbus TCP, CAN
Bus interface	2x Ethernet M12-D-Coded
Web visualization	Yes
Digital Input	0 to 24VDC, switching threshold 12 VDC
Analog Output	0 to 23mA
Digital Output	Galvanically isolated solid-state relays
Digital Output Powered	Power MOSFET 24VDC 2A
Dimension	340mm x 120mm x 35mm
Analog Output	4 to 20mA, digitally monitored
Operating and storage temperature	-40 to +85°C
Protection class	IP65

Diagnosis and control platform

The key component of the new innovative control and diagnosis platform DC650 is the central hardware module. Equipped with various inputs for sensors and actuators, multiple digital interfaces and embedded computing power all combined in a rugged housing it enables digitalization and monitoring of relevant system information in the field of industrial and marine application. WIFI and LAN connection enables easy accessible services with highly available HTML browser technology, which makes additional software components obsolete. As a plug-and-play-solution with fieldbus interface for communication with other components, it ensures low and cost-effective integration efforts.

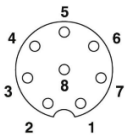
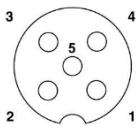
Mounting Pattern



Maximum Ratings

Maximum Rating	DC650-V2.9
Power Supply	18-36VDC max 2,5A
Analog Input 4-20mA	36 VDC/ 25mA
Analog Input 0-10VDC	36 VDC / 25mA
Analog Output 4-20mA	24 VDC / 25mA
Analog Output 0-10VDC	24 VDC / 25mA
Digital Input	36 VDC
Digital Output	24 VDC
Powered Output	24 VDC 1,5A
PT1000	+50VDC / -50VDC

Assignment

Ethernet: 3/4/9 1: TD+ 2: RD+ 3: TD- 4: RD-	Power Supply: 1/2 1: VCC Main 2: VCC BAT 3: GND BAT		Digital Out: 6 1: S1 2: S1 3: S2 4: S2 5: S3 6: S3 8: S4 8: S4		CAN: 7 1: nc 2: 5V 3: GND 4: CANH 5: CANL
PT1000: 10/11 1: F+ 2: R+ 3: R- 4: F- 5: nc	Digital IO: 12 1: 24V 2: S1 3: GND 4: In1 5: S1	Digital In: 13-16 1: 24V 2: In2 3: GND 4: In1 5: In3	Analog In: 17-19 1: 24V 2: 0-10V 3: GND 4: 4-20mA 5: nc	Analog Out: 20 1: 24V 2: nc 3: GND 4: out 5: nc	Digital Out: 21/22 1: 24V 2: nc 3: GND 4: out 5: nc

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