



Revision List
referred to on Certificate No.: 968/FSP 2510.00/23
**Certified Product: Integrated Safety Functions of the
Proteus Drive Unit**



Proteus Drive Unit modules: Certification Phase 1

Module			FW rev.	HW rev.	Description	Report-No.:	Certification Status
Designation	Schematic -No.	Assembly Part-No.					
MEA 2.0	520-12034	600-03616	DUSC Safety CPU: 3.8.0 (Bootloader) Pro-0.3 (Application)	04	Main Electronic Assembly incl. DUSCs	968/FSP 2510.00/23	Valid
ARIMA Left, Right Wheel and Lifter	520-00612	600-02646	FPGA: 203.047.02.06 (Safety Block Version: 02.06) (Non Safety Block Version: 203.047)	03	Amazon Robotics Integrated Motor Amplifier for the left, right wheel, and lifter.	968/FSP 2510.00/23	Valid
BUTTON MODULE Left, Right	520-02310	600-03067	-/-	04	User Interface One on the left and one on the right, contains ESTOP button.	968/FSP 2510.00/23	Valid
MEA Backplane 2.0	520-02414	600-03301	-/-	03	Central Backplane.	968/FSP 2510.00/23	Valid
Load Cell Aggregator	520-02389	600-03252	-/-	01	Power supply and signal processing for load cells.	968/FSP 2510.00/23	Valid



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Safety Functions

Safety function	Description	Specified in	Report-No.:	Certification Status
STO	Safe torque off	IEC 61800-5-2	968/FSP 2510.00/23	Valid
SS2-r	Safe stop 2 (ramp controlled)		968/FSP 2510.00/23	Valid
SLS	Safely-limited speed		968/FSP 2510.00/23	Valid
SOS	Safe operating stop		968/FSP 2510.00/23	Valid
LADEN STATE MONITORING	The PRO-DU BMP detects if the robot is Laden or Unladen with a cart. The PRO-DU BMP will transition to STO and stop the PRO-DU in the event of disagreement between the Detected Laden Status and the Expected Laden Status.	Amazon Robotics SRP/BMP SRS	968/FSP 2510.00/23	Valid
PREVENT UNSAFE DISENGAGEMENT	The PRO-DU BMP will monitor Go-Cart engagement and prevent unsafe disengagement by enforcing mutual exclusion of Lifter movement and drive unit movement.		968/FSP 2510.00/23	Valid
TRANSMISSION OF SAFETY RELEVANT DATA TO/FROM SafeODS	Provide bi-directional safe communication between PRO-DU BMP and SafeODS sub-systems.		968/FSP 2510.00/23	Valid

The content of this Revision List has been agreed between Manufacturer and Certification Body.

Revision:

Date	Rev.	Description / Changes	Author
2023-04-21	1.0	Initial creation, based on Report-No.: 968/FSP 2510.00/23	TÜV-tg

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