



## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Hans Turck GmbH &amp; Co. KG</b>
<b>Address</b>	Witzlebenstr. 7, Mülheim an der Ruhr, 45472, Germany
<b>Place of Production</b>	Turck Mechatec GmbH Witzlebenstr. 11, Mülheim/Ruhr, 45472, Germany
<b>Place of Production</b>	Werner Turck GmbH & Co. KG Goethestr. 7, Halver, 58553, Germany
<b>Type</b>	Control Units
<b>Description</b>	Remote I/O system refer to the Appendix for details
<b>Trade Name</b>	excom
<b>Application</b>	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 in "Power Distribution Zone" as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2021.

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**Specified Standard** Manufacturer's specification  
IACS requirements E10 (1991/ Rev.8: Feb 2021)

<b>Ratings</b>	Type	Nominal Voltage	Output Power	Output Voltage
	PPSA230EX	230 VAC	66.5 W	24 VDC
	PPSA115EX	115 VAC	66.5 W	24 VDC

**Other Conditions** Ratings for application in hazardous areas are to be obtained from the applicable Ex Certificates.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** LR21307755TA-02

The Design Appraisal Document HPC1862098-24/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.



## Appendix

### TYPES

ID	Type	Description
9100688	MT16-2G/MSA	24 VDC zone-1 module rack for 16 modules
6881721	PSD24EX	24 VDC power supply module
6900293	PPSA230Ex	230 VAC power converter AC/DC
6900294	PPSA115Ex	115 VAC power converter AC/DC
9100516	MT-PPS	Module rack for PPSA***Ex
6884210	GDP-IS/FW2.2	Gateway for Profibus-DP communication (intrinsically safe)
6884275	GDP-IS/FW2.3	Gateway for Profibus-DP communication (intrinsically safe)
6884006	DM80EX	8-channel digital input/ output module
6884004	DI40EX	4-channel digital input module
6884203	DO401EX	4-channel digital output module
6884061	DF20EX	2-channel frequency module
6884204	AI401EX	4-channel analogue input module, active/ passive
6884205	AO401EX	4-channel analogue output module
6884137	AI43Ex	Potentiometer Module
6884190	TI41EX	4-channel temperature input module (only RTD)
6884001	AIH40EX	4-channel analogue input module, active, HART®
6884005	AIH41EX	4-channel analogue input module, passive, HART®
6884003	AOH40EX	4-channel analogue output module, HART®
6884000	TI40EX	4-channel temperature input module (RTD / TC)
6884047	SC12EX	Profibus-DP segment coupler (RS485-IS)
6890427	OC11Ex/2G.2	Profibus-DP fibre-optic coupler (RS485-IS), zone-1 device
6890428	OC11Ex/3G.2	Profibus-DP fibre-optic coupler (RS485), zone-2 device
6884036	BM1	Dummy module for unused slots
6884044	BM-PS	Cover for unused power supply port
100000127	GEN-2G	Multiprotocol gateway for Ethernet
100004545	GEN-3G	Multiprotocol gateway for Ethernet
100000551	FOC11Ex-2G	RS485-IS — Fiber optic media converter for zone 1
100000549	FOC11-3G	RS485 — Fiber optic media converter for zone 2
100000552	FOC12Ex-2G	RS485-IS — Fiber optic media converter for zone 1
100000553	FOC12-3G	RS485 — Fiber optic media converter for zone 2
100000555	FOCEN11Ex-2G	IS-100BASE-TX — Fiber-optic ethernet media converter for zone 1



100000554	FOCEN11-3G	100BASE-TX – Fiber-optic ethernet media converter for zone 2
100000550	SC11Ex-3G	Segment coupler
6884266	AIH401EX	Input module, analog, HART®, 4-channel
6884267	AOH401EX	Output module, analog, HART®, 4-channel
100028780	TI401EX	4-Channel temperature input module
6884232	DI401EX	Input module, digital, 4-channel

