



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx ULD 16.0022X**

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Certificate history:

Status: **Current**

Issue No: 3

[Issue 2 \(2018-03-13\)](#)

[Issue 1 \(2017-11-30\)](#)

[Issue 0 \(2016-07-27\)](#)

Date of Issue: 2020-01-27

Applicant: **Intelligent Platforms LLC**  
2500 Austin Drive  
Charlottesville, VA 22911  
**United States of America**

Equipment: **Interface modules, Open Type Programmable Controllers – Series EP u-remote**

Optional accessory:

Type of Protection: **Non-sparking "nA", Encapsulated "nC"**

Marking: Ex nA IIC T4 Gc

Ex nA nC IIC T4 Gc (Model EP-2714 only)

-20°C to +60°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Katy A. Holdredge**

Position:

**Senior Staff Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**UL International DEMKO A/S**  
**Borupvang 5A**  
**DK-2750 Ballerup**  
**Denmark**





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Manufacturer: **Intelligent Platforms LLC**  
2500 Austin Drive  
Charlottesville, VA 22911  
**United States of America**

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements  
Edition:6.0

[IEC 60079-15:2010](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DK/ULD/ExTR16.0022/03](#)

Quality Assessment Reports:

[GB/FME/QAR19.0017/00](#)

[NL/DEK/QAR12.0052/06](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Interface modules, Open Type Programmable Controllers – Series EP u-remote modules are intended to be used in combination with programmable controllers and intended to be used for communication and input / output purposes. The system consists of Bus Coupler Modules and Input / Output Modules with different functions.

The Input and Output Modules are consisting of a base module with connections to the communication bus and power sources, different electronic modules and a modular terminal block module.

**Please see Annex for additional information.**

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with IEC 60079-15, accessible only by the use of a tool.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.
- When using relay modules ( EP-2714 ; EP-2814) in explosive atmosphere: Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Model EPXMBE101 was added to the certificate.

Issue 2: The following models were added: EP-3368, EP-3468, EP-5261, EP-1804, EP-5311.

Issue 3: Company name change. Additional models EP-3F68, EP-3664, EPXPNS101, EPXEIP001, EP-153F, EP-2924, EP-291F, EP-12F2, and EP-5324 added.

## Annex:

[Annex to IECEx ULD 16.0022X Issue 3.pdf](#)



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## TYPE DESIGNATION

Models:

EP-1214, EP-1218, EP-125F, EP-2214, EP-2614, EP-2218, EP-225F, EP-2714, EP-5111, EP-5112, EP-5422, EP-5442, EP-3164, EP-4164, EP-3704, EP-3804, EP-8310, EP-7631, EP-7641, EP-711F, EP-751F, EP-700F, EP-710F, EP-750F, EPXPBS001, EPXPNS001, EPXMBE001, EPXETC001, EP-1901, EP-1922, EP-1902, EP-3124, EP-1318, EP-12F4, EP-2634, EP-2814, EP-5212, EP-3264, EP-3368, EP-3468, EP-3F68, EP-4264, EP-5261, EP-1804, EP-5311, EPXMBE101, EP-8400, EP-3664, EPXPNS101, EPXEIP001, EP-153F, EP-2924, EP-291F, EP-5324.

Model	Type	Main Input	Auxiliary Input / Output
EPXPNS001 EPXPNS101	Bus Coupler ProfiNet IRT	Input voltage I port: DC 24V  Input current at I port at full load: ≤10A  Input voltage O port: DC 24V  Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2%  Output current at system bus at full load: 2.56A  Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
EPXETC001	Bus Coupler EtherCat	Input voltage I port: DC 24V  Input current at I port at full load: ≤10A  Input voltage O port: DC 24V  Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2%  Output current at system bus at full load: 2.56A  Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
EPXMBE001	Bus Coupler ModBus TCP	Input voltage I port: DC 24V  Input current at I port at full load: ≤10A  Input voltage O port: DC 24V  Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2%  Output current at system bus at full load: 2.56A  Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C



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Model	Type	Main Input	Auxiliary Input / Output
EPXPBS001	Bus Coupler Profibus DP	Input voltage I port: DC 24V  Input current at I port at full load: ≤10A  Input voltage O port: DC 24V  Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2%  Output current at system bus at full load: 2.56A  Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
EP-1214 EP-12F4	2 or 4 Digital Inputs	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC  sensor supply: 24Vdc, 2A resistive maximum per sensor, unfused
EP-125F EP-153F	16 Digital Inputs	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC
EP-2214	4 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current (DO): 0.5A resistive maximum per output sensor supply (auxiliary 24VDC): 2A maximum per sensor, unfused
EP-2218	8 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current: 24Vdc, 0.5A resistive or tungsten maximum per output
EP-2614 EP-2924	4 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current (DO): 2A resistive or tungsten maximum per output  sensor supply (auxiliary 24VDC): 2A maximum per sensor, unfused Total current: 10A per module
EP-2218	8 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC output current: 24Vdc, 0.5A resistive or tungsten maximum per output



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Model	Type	Main Input	Auxiliary Input / Output
EP-225F EP-291F	16 Digital Outputs	rated voltage: 24V DC from internal bus	rated voltage: 24V DC output current: 24Vdc, 0.5A resistive or tungsten maximum per output
EP-2714	4 Relay Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 250Vac  rated current: 2.4A per channel at 60°C and 3A per channel at 55°C
EP-3164 EP-3124	4 Analog Inputs	rated voltage: 24V DC from internal I bus	type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA  sensor supply: 24Vdc, 2A maximum per sensor, unfused, 0.5A for HD version, fused
EP-3F68	8 Analog Inputs	rated voltage: 24V DC from the 4 pole terminal block of the module	type of input: analog 0..20mA or 4..20mA  sensor supply: 24Vdc, 1A maximum, fused
EP-4164 EP4264	4 Analog Outputs	rated voltage: 24V DC from internal O bus	type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA
EP-3264	4 Analog Inputs	rated voltage: 24V DC from internal I bus	type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA  sensor supply: 24Vdc, 0.5A fused
EP-3704	4 Analog Inputs Resistive Temperature Detection	rated voltage: 24V DC from internal I bus	type of input: analog Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni 200, Ni500, Ni1000, Cu10, 40 Ω, 80 Ω, 150 Ω, 300 Ω, 500 Ω, 1 kΩ, 2 kΩ, 4 kΩ
EP-3804	4 Analog Inputs Thermocouple	rated voltage: 24V DC from internal I bus	type of input: analog TC type J, K, T, B, N, E, R, S, L, U, C, mV +/-15.625mV, +/-31.25mV, +/- 62.5mV, +/-125mV +/-250mV, 500mV, +/-1000mV, +/-2000mV



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Model	Type	Main Input	Auxiliary Input / Output
EP-7631	Power Feed Input	rated voltage: 24V DC from 4 pole terminal block	rated voltage: 24V DC  rated current: 10A
EP-7641	Power Feed Output	rated voltage: 24V DC from the 4 pole terminal block	rated voltage: 24V DC  rated current: 10A
EP-710F EP-711F EP-8310	Potential Distribution Module for Input Current Path	rated voltage: 24V DC from internal I bus	0V / GND rated current: 10A
EP-750F EP-751F EP-700F	Potential Distribution Module for Output Current Path	rated voltage: 24V DC from internal O bus	0V / GND rated current: 10A
EP-1318 EP-1218	8 Digital Inputs	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC  sensor supply: 24Vdc, 2A maximum per sensor unfused, HD version FWT 1 to 4: 0.5A maximum total current, FWT 5 to 8: 0.5A maximum total current
EP-5212 EP-5111 EP-5112	Counter with or without digital output	rated voltage: 24V DC from internal I bus	rated voltage: 24V DC  output current 1CNT-1DO: 0.5A resistive maximum per output  sensor supply: 24Vdc, 2A maximum per sensor unfused
EP-5422 EP-5442	Pulse Width Controller with 0.5A or 2A output	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC  output current: 0.5(for ...PN-0.5A models)  2A (for ...PN-2A models) resistive maximum per output  sensor supply: 24Vdc, 2A maximum per sensor unfused



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Model	Type	Main Input	Auxiliary Input / Output
EP-2634	4 Digital Outputs	rated voltage: 24V DC from internal O bus	rated voltage: 24V DC  output current: 2A resistive or tungsten maximum per output  sensor supply: 24Vdc , 2A maximum per sensor, unfused  total current per module: 10A maximum
EP-2814	4 Solid State Relay Outputs		rated voltage: 24V DC  SSR rated voltage: 250Vac  SSR rated current: 1A resistive maximum per channel, unfused
EP-1901 EP-1902 EP-1922	Power Feed Output	rated voltage: 24V DC from the 4 pole terminal block of the module	rated voltage: 24V DC  rated current: OSSD: 8A resistive SSI: 0.5A resistive
EPXMBE101	Bus Coupler Modbus / TCP	Input voltage I port: DC 24V  Input current at I port at full load: <=10A  Input voltage O port: DC 24V  Input current at O port at full load: <=10A	Output voltage system bus: 5Vdc +/-2%  Output current at system bus at full load: 2.56A  Output / input current at O / I Port at full load: 8A at 60°C, horizontal mounting, 6A at 55°C, vertical mounting



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Model	Type	Main Input	Auxiliary Input / Output
EPXEIP001	Bus Coupler Ethernet IP	Input voltage I port: DC 24V  Input current at I port at full load: ≤10A  Input voltage O port: DC 24V  Input current at O port at full load: ≤10A	Output voltage system bus: 5Vdc +/-2%  Output current at system bus at full load: 2.56A  Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
EP-3368 EP-3468	8 Analog Inputs	rated voltage: 24V DC from internal I bus	type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA  sensor supply: 24Vdc 2A maximum per sensor, unfused, 0.5A for HD version, fused
EP-5261	1 Port Digital Interface	rated voltage: 24 V DC from internal I bus	Data interface signal: 232, 485 or 422  Load sensor supply: 0.4A (5V) or 0.5A (24V)
EP-1804	4 Digital Inputs	rated voltage: 24 V	Rated input voltage: 230V AC
EP-5311	1 Port Inout Card for Incremental Encoder	rated voltage: 24V DC from internal I bus	1 RS422 Output 2 RS422 Input
EP-3664	AI Module  4 analog inputs	5Vdc system bus 24V DC from internal I bus	Voltage: 0..5V, ±5V, 0..10V, ±10V, 1..5V, 2..10V Current: 0..20mA, 4..20mA
EP-5324	Comm. Module	5Vdc system bus 24V DC from internal I bus	0,5 A per channel, total max. 2 A



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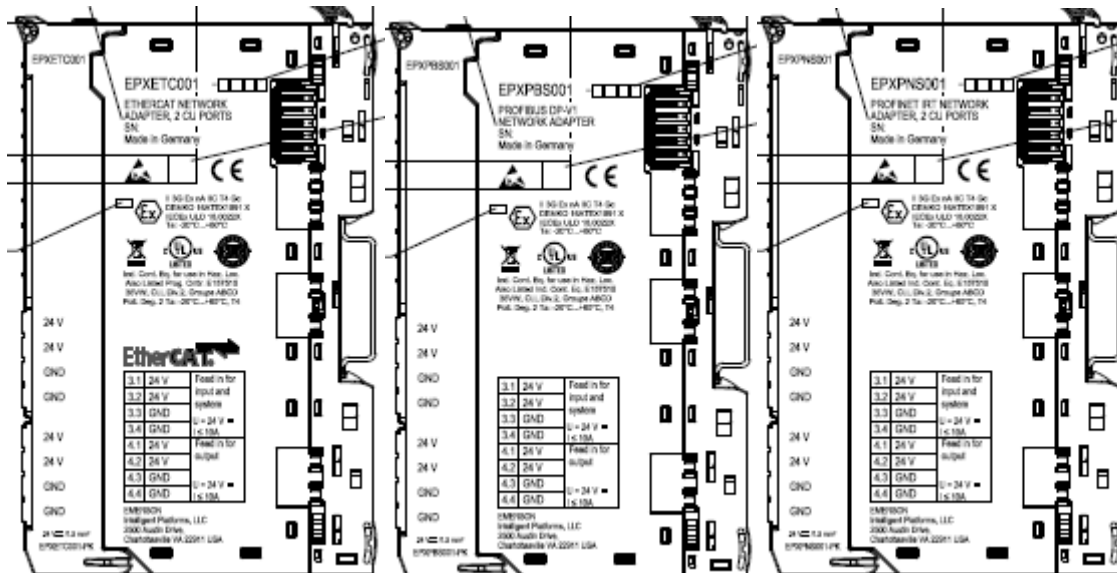
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Model	Type	Main Input	Auxiliary Input / Output
EPXPBS001	Bus Coupler Profibus DP	Input voltage I port: DC 24V Input current at I port at full load: $\leq 10A$ Input voltage O port: DC 24V Input current at O port at full load: $\leq 10A$	Output voltage system bus: 5Vdc $\pm 2\%$ Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C
EP-5261	1 Port Digital Interface	rated voltage: 24 V DC from internal I bus	Data interface signal: 232, 485 or 422  Load sensor supply: 0.4A (5V) or 0.5A (24V)

## MARKING

Marking has to be readable and indelible; it has to include the following indications:

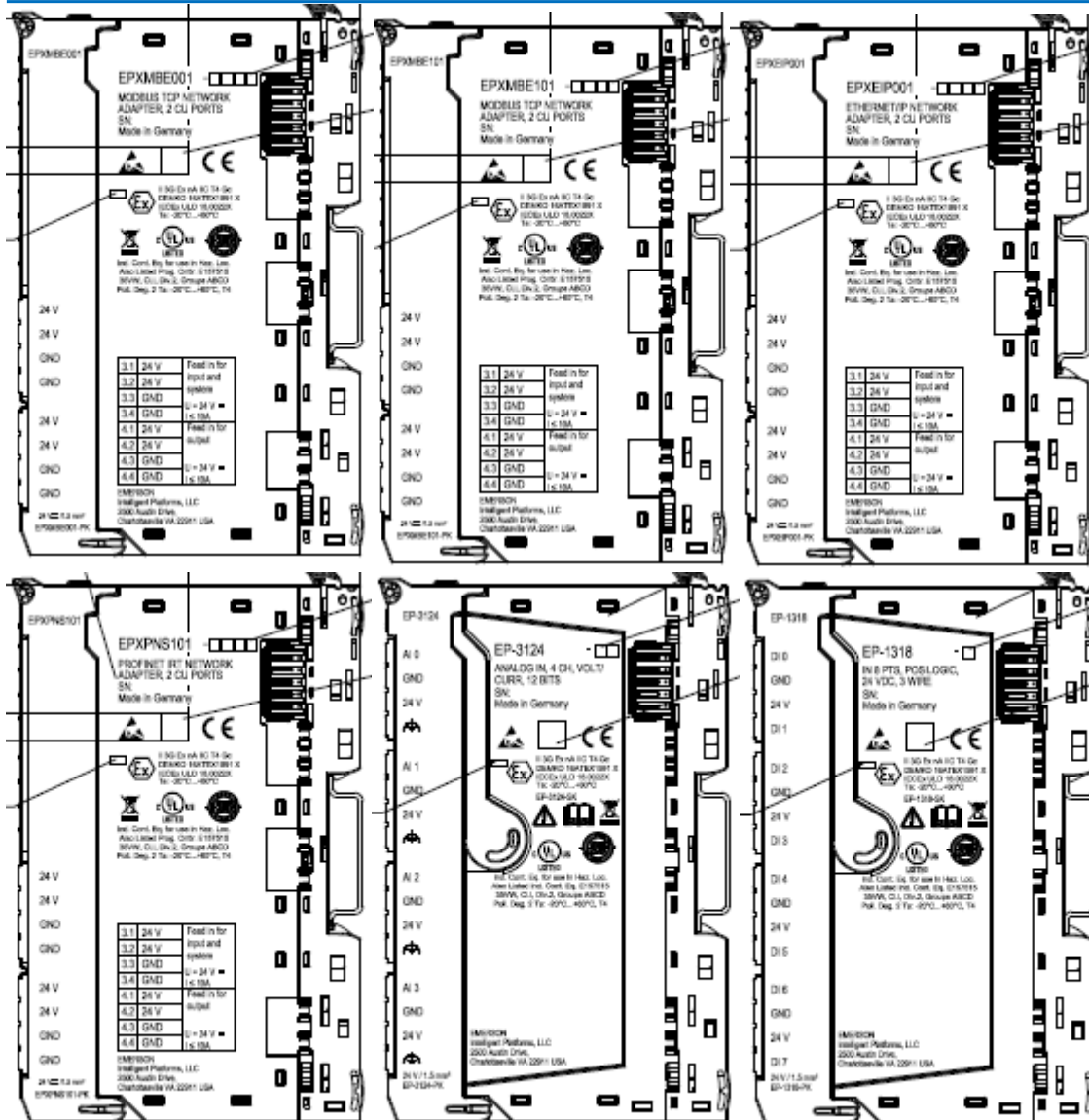


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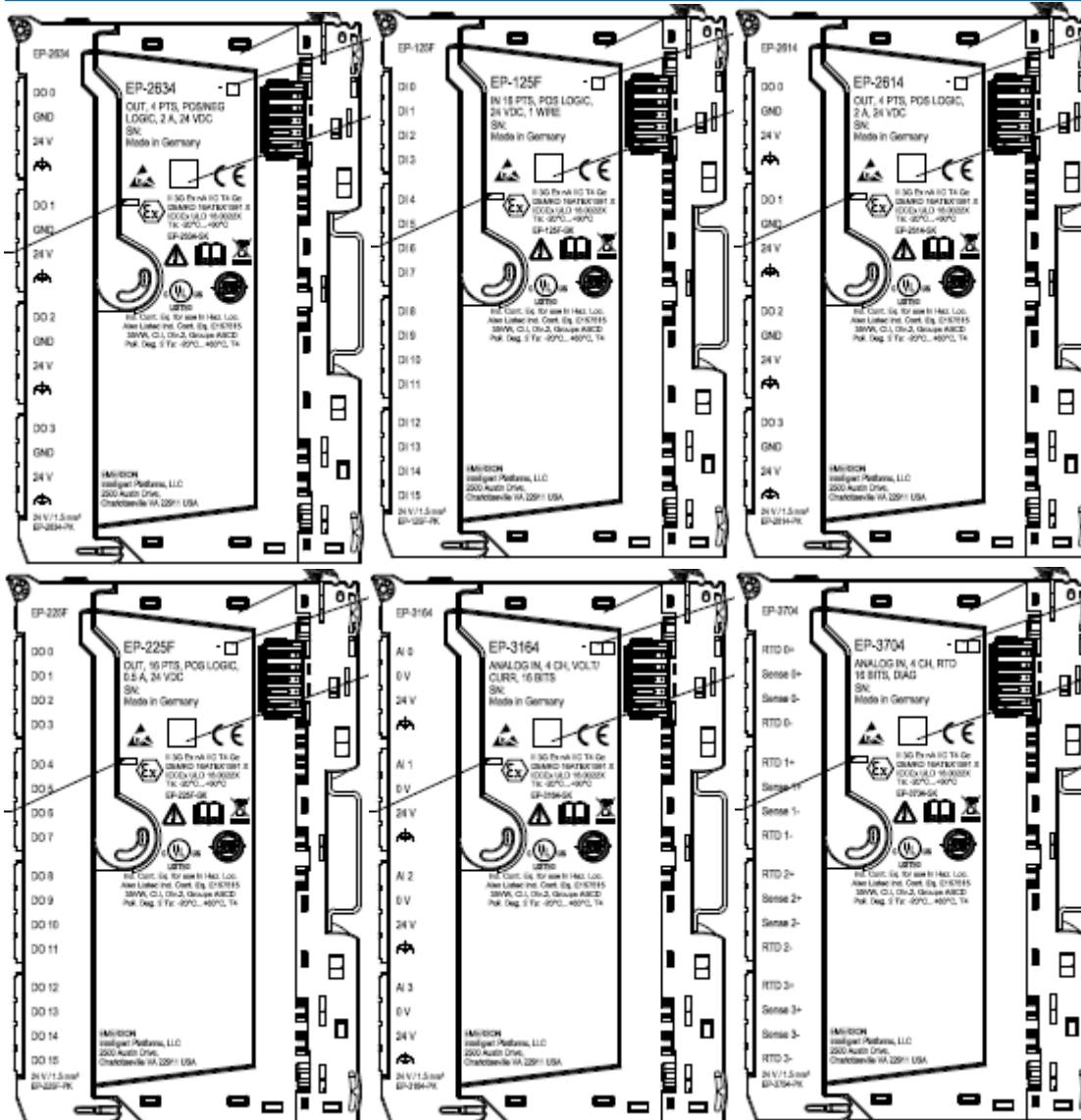


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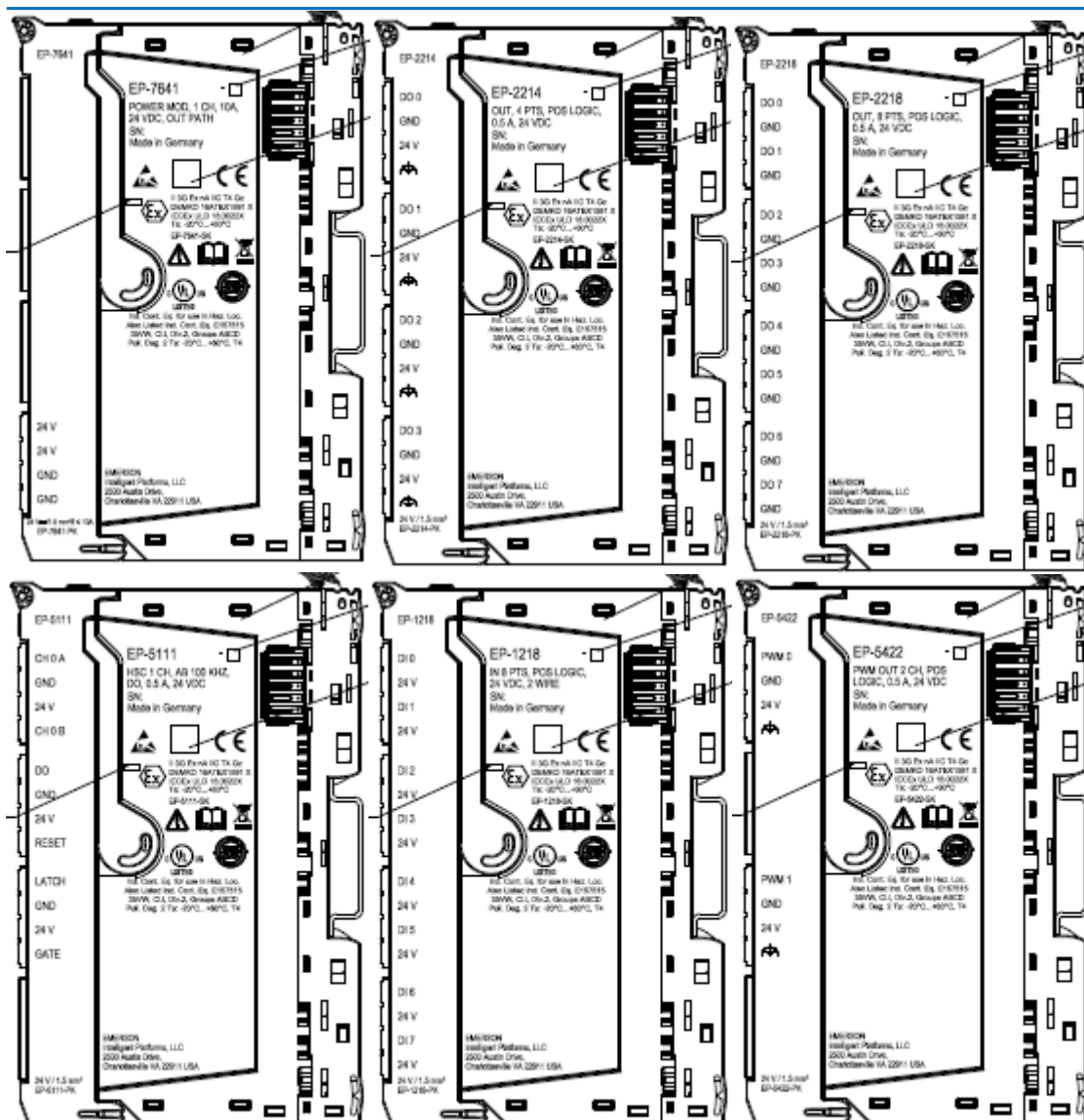


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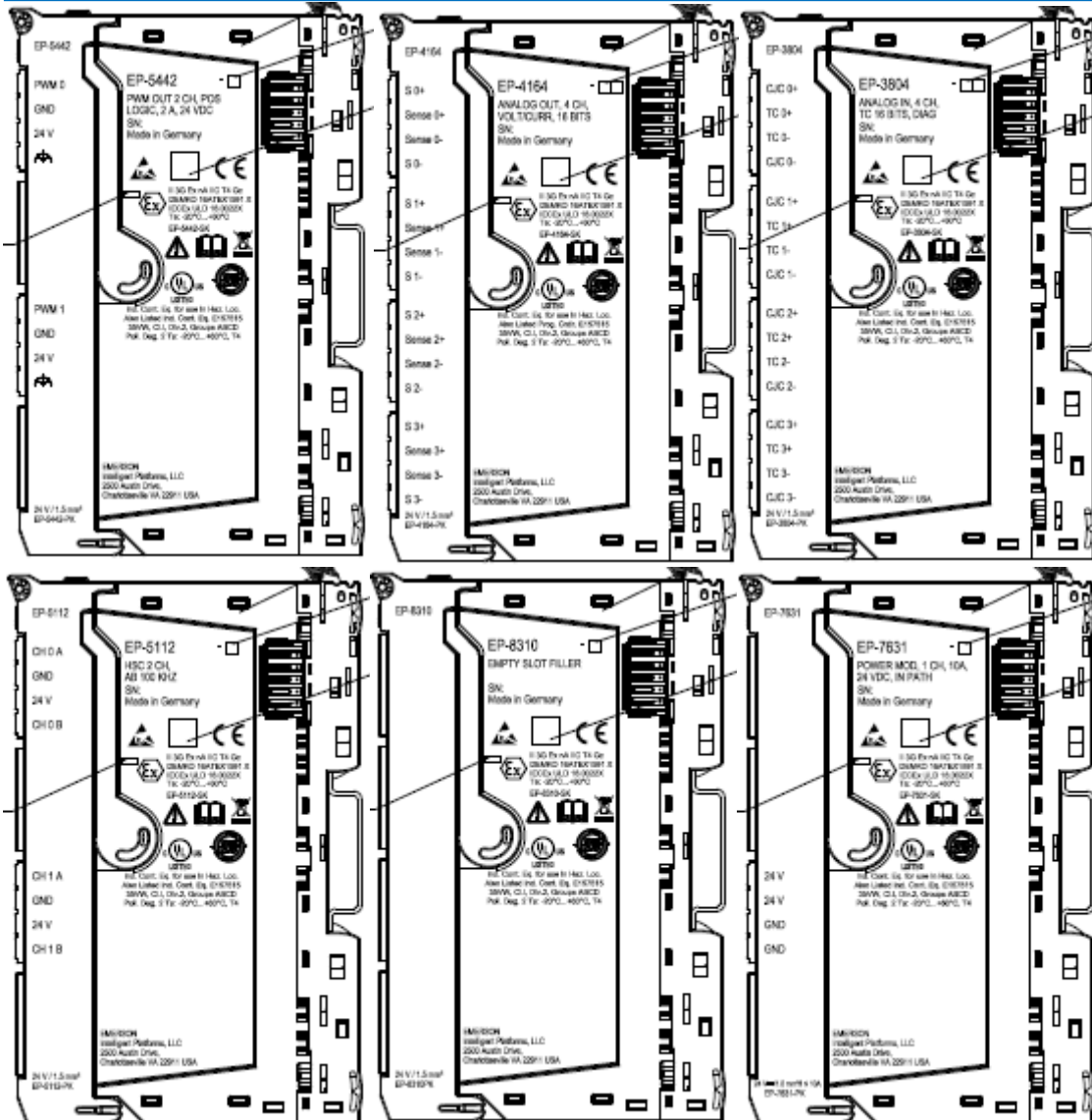


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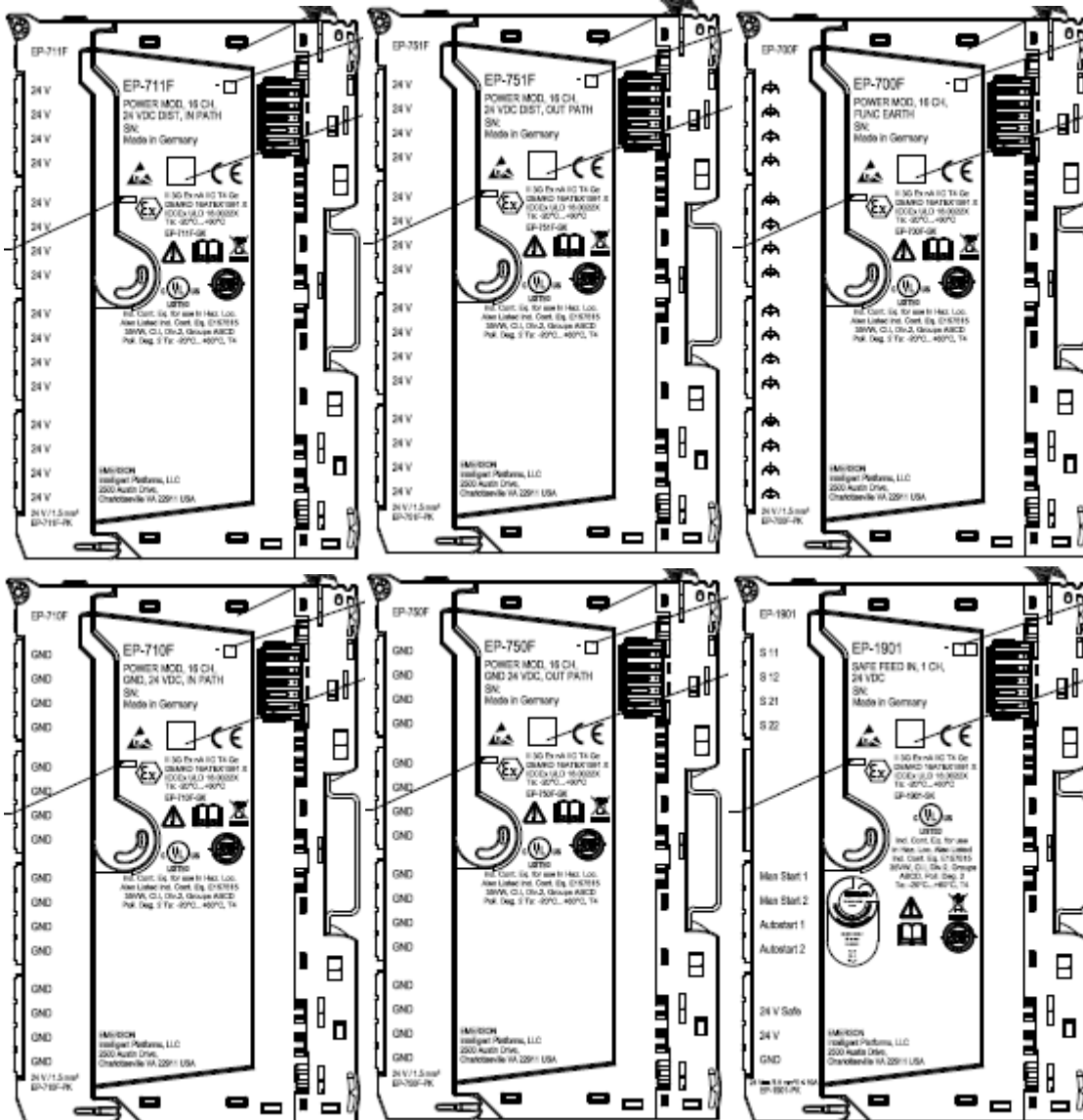


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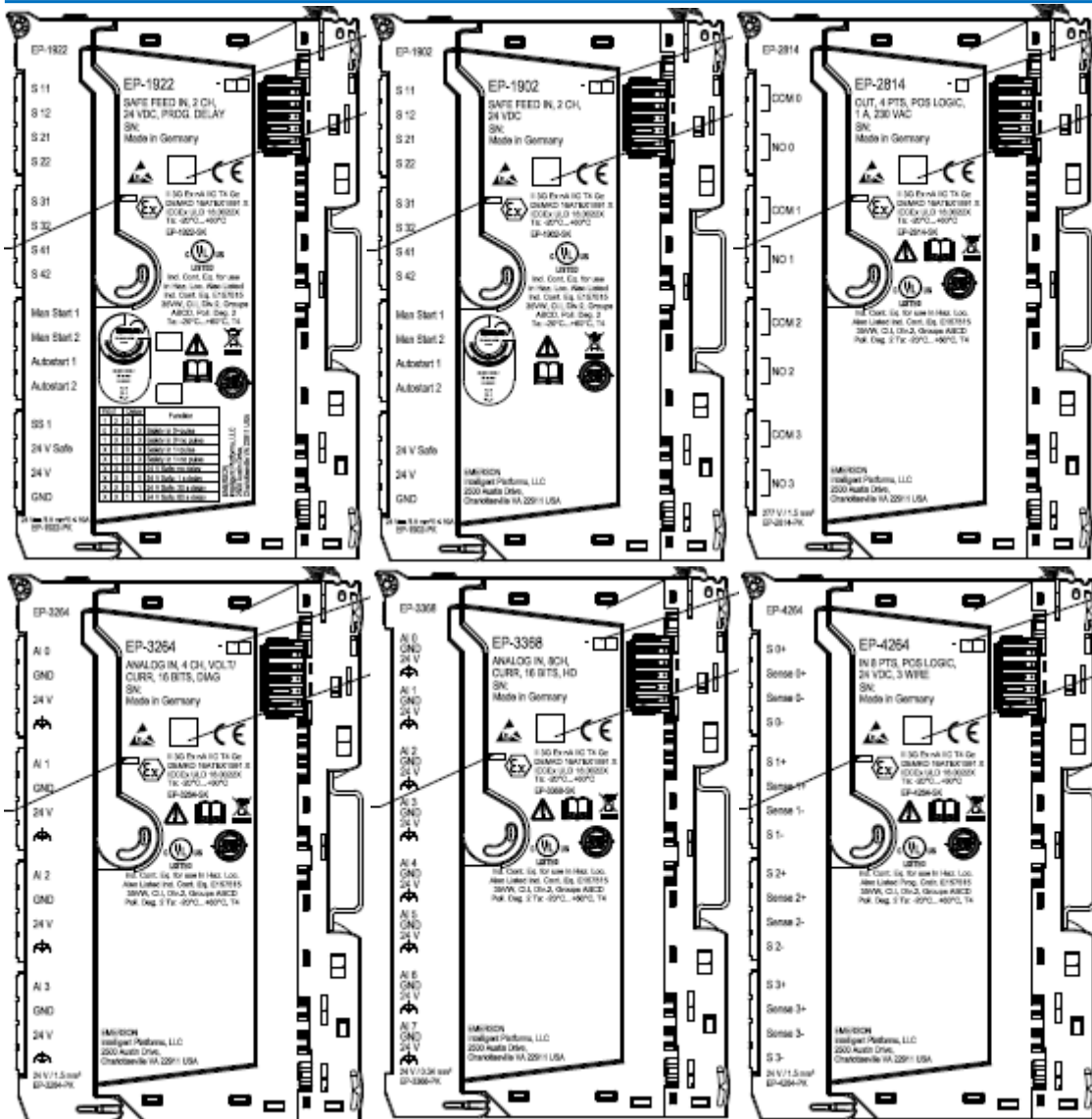


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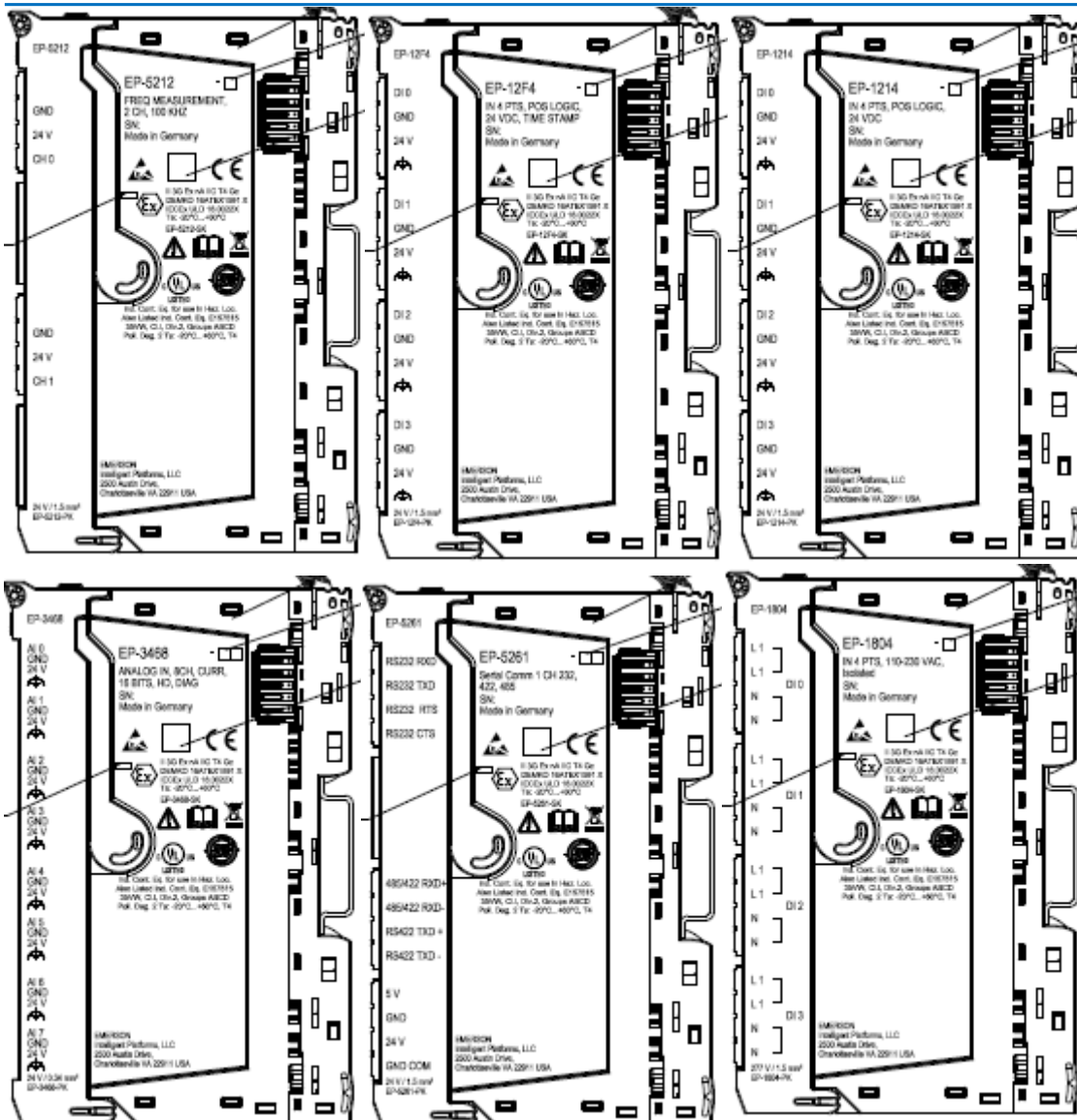


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