



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

Certificate No.: **IECEx ULD 16.0018X**

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Certificate history:

Status: **Current**

Issue No: 5

[Issue 4 \(2023-11-27\)](#)

[Issue 3 \(2023-03-22\)](#)

[Issue 2 \(2020-09-09\)](#)

[Issue 1 \(2018-03-16\)](#)

[Issue 0 \(2017-03-14\)](#)

Date of Issue: 2025-02-24

Applicant: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstraße 8
32825 Blomberg
Germany

Equipment: **Open type programmable controllers**

Optional accessory:

Type of Protection: **Increased Safety "ec"**

Marking: Ex ec IIC T4 Gc

Please see Annex for temperature ranges

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2025-02-24

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

UL Solutions (Demko)
Borupvang 5A
Ballerup DK-2750
Denmark





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Date of issue: 2025-02-24

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Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstraße 8
32825 Blomberg
Germany

Manufacturing locations: **Phoenix Contact GmbH & Co. KG**
Dringenauer Straße 30
Bad Pyrmont 31812
Germany

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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Reports:

DK/ULD/ExTR16.0018/00
DK/ULD/ExTR16.0018/03

DK/ULD/ExTR16.0018/01
DK/ULD/ExTR16.0018/04

DK/ULD/ExTR16.0018/02
DK/ULD/ExTR16.0018/05

Quality Assessment Report:

NL/DEK/QAR11.0009/10



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Managed Switches from the 2200 and 2300 series are Ethernet switches which are suitable for industrial use.

The devices of the FL MGuard 1000/ 2000/ 3000/ 4000 series are security routers for industrial use.

Devices may be used with the following Phoenix optical transceiver modules:

SFP FO ports Gigabit

FL SFP LH, FL SFP LX40, FL SFP LX, FL SFP LX10-B, FL SFP SX, FL SFP SX2, FL SFP WDM10-A, FL SFP WDM10-B, FL SFP WDM10-SET

SFP FO ports Fast Ethernet

FL SFP FX SM, FL SFP FX, FL SFP FE WDM20-A, FL SFP FE WDM20-B, FL SFP FE WDM20-SET

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 60079-0 and that has been considered to be not accessible in normal operation without the use of a tool.
- The ambient temperature inside the end-use enclosure shall be measured and maintained within 25mm to the device.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Addition of new model variants and transcribe the already certified models from IEC 60079-15 to IEC 60079-7.

Issue 2: Addition of Models FL MGuard 1102, FL MGuard 1105, FL MGuard 3102, FL MGuard 3105, FL MGuard 3104-SFP, FL MGuard 3302, FL MGuard 3305, FL MGuard 3304-SFP. Standards updated to latest editions.

Issue 3: Addition of optional Phoenix Contact SFP-Modules to be connected to Gigabit or Fast Ethernet ports.

Issue 4: Addition of models FL MGuard 2102, FL MGuard 2102/K*, FL MGuard 2105, FL MGuard 2105/K*, FL MGuard 4302, FL MGuard 4302/K*, FL MGuard 4305, FL MGuard 4305/K*.

Issue 5: Update to Manufacturing Location company name.

Annex:

[Annex to IECEx ULD 16.0018X Issue 5.pdf](#)



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TYPE DESIGNATION

Nomenclature for 2200 and 2300 series:

FL (Factory Line)	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
-------------------	-----	-----	-----	-----	-----	-----	-----	-----	-----

- (0) SWITCH - If NAT stated, Switch with Network Address Translation (data processing method).
- (1) 2 - power class
- (2) 2 - Standard fast Ethernet variant (100Mbit/s) with one digital output and redundant power supply.
- 3 - Standard Gigabit Ethernet variant (1000Mbit/s) with one digital output and redundant power supply.
- (3) XX - Number of RJ45 Ethernet ports. 04, 05, 06, 07, 08, 14 or 16 possible.
- (4) -2FX - Number of fibre optic ports. FX for one port and 2FX for two ports. If nothing stated, no FO ports.
- 2TC/2GC - Number of combo ports consists of one RJ45- and one SFP port. GC for Gigabit Combo and TC for Fast Ethernet Combo. If nothing stated, no combo ports.
- (5) -2SFP/2SFX-Number of SFP or SFX ports. SFP for Gigabit and SFX for Fast Ethernet. If nothing stated, no SFP/SFX ports.
- (6) SM - Propagation variant. SM for Singlemode and if nothing stated Multimode.
- (7) ST - Connectivity of optic ports. ST for ST variant and if nothing stated SC variant.
- (8) PN - Profinet variant.

MF MGUARDS device details:

FL MGUARD 1102	2 x RJ45 ports, SD card holder, digital service I/Os
FL MGUARD 1105	5 x RJ45 ports, SD card holder, digital service I/Os
FL MGUARD 3102	2 x RJ45 ports, SD card holder, digital service I/Os
FL MGUARD 2102	2 x RJ45 ports, SD card holder, digital service I/Os
FL MGUARD 2102/K*	2 x RJ45 ports, SD card holder, digital service I/Os,
FL MGUARD 2105	5 x RJ45 ports, SD card holder, digital service I/Os
FL MGUARD 2105/K*	5 x RJ45 ports, SD card holder, digital service I/Os
FL MGUARD 3105	5 x RJ45 ports, SD card holder, digital service I/Os
FL MGUARD 3302	2 x RJ45 ports, redundant power supply, SD card holder, digital service I/Os
FL MGUARD 3305	5 x RJ45 ports, redundant power supply, SD card holder, digital service I/Os
FL MGUARD 3104-SFP	4 x RJ45 ports, 1 x SFP slot for FO, SD card holder, digital service I/Os
FL MGUARD 3304-SFP	4 x RJ45 ports, 1 x SFP slot for FO, redundant power supply, SD card holder, digital service I/Os
FL MGUARD 4302	2 x RJ45 ports, redundant power supply, SD card holder, digital service I/Os
FL MGUARD 4302/K*	2 x RJ45 ports, redundant power supply, SD card holder, digital service I/Os
FL MGUARD 4305	5 x RJ45 ports, redundant power supply, SD card holder, digital service I/Os



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FL MGUARD 4305/K*

5 x RJ45 ports, redundant power supply, SD card holder, digital service I/Os

“*” Stands for any number from 1 to 9 or any letter from A to Z and are preconfigured with application-relevant settings. The settings are mainly network, access and connection parameters that are basically necessary for the operation of the devices and must be made by the customer. To facilitate commissioning, the settings are preconfigured at the factory and delivered to the customer.



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PARAMETERS RELATING TO THE SAFETY

Ratings

Model	Ratings	Ambient Temperature range
FL SWITCH 2205	9 - 57 VDC; max 1.2A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2208	9 - 57 VDC; max 1.3A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2207-FX	9 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2207-FX SM	9 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2206-2FX	9 - 57 VDC; max 1.5A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2206-2FX SM	9 - 57 VDC; max 1.5A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2206-2FX ST	9 - 57 VDC; max 1.5A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2206-2FX SM ST	9 - 57 VDC; max 1.5A	-40 °C ≤ Ta ≤ +70 °C
FL NAT 2208	9 - 57 VDC; max 1.3A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2204-2TC-2SFX	12 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2208-2SFX	12 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2308	12 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2304-2GC-2SFP	12 - 57 VDC; max 1.5A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2308-2SFP	12 - 57 VDC; max 1.55A	-40 °C ≤ Ta ≤ +70 °C
FL NAT 2308-2SFP	12 - 57 VDC; max 1.55A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2206-2SFX	12 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2306-2SFP	12 - 57 VDC; max 1.5A	-40 °C ≤ Ta ≤ +70 °C
FL NAT 2304-2GC-2SFP	12 - 57 VDC; max 1.5A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2216	12 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2216 PN	12 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2214-2FX	12 - 57 VDC; max 1.8A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2214-2FX SM	12 - 57 VDC; max 1.8A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2214-2SFX	12 - 57 VDC; max 1.6A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2214-2SFX PN	12 - 57 VDC; max 1.6A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2212-2TC-2SFX	12 - 57 VDC; max 1.7A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2316	12 - 57 VDC; max 1.8A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2316 PN	12 - 57 VDC; max 1.8A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2314-2SFP	12 - 57 VDC; max 2.0A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2314-2SFP PN	12 - 57 VDC; max 2.0A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2312-2GC-2SFP	12 - 57 VDC; max 2.0A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2208 PN	12 - 57 VDC; max 1.3A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2206-2SFX PN	12 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2308 PN	12 - 57 VDC; max 1.4A	-40 °C ≤ Ta ≤ +70 °C
FL SWITCH 2306-2SFP PN	12 - 57 VDC; max 1.5A	-40 °C ≤ Ta ≤ +70 °C



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Type	Input		Output		Ambient temperature range
	Volt	Amp	Volt	Amp	
FL MGuard 1102	US: 18...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.0	18...36 VDC	3x0.25 A (General/Resistive Use)	0°C ≤ Ta ≤ +60°C
FL MGuard 1105	US: 18...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.06	18...36 VDC	3x0.25 A (General/Resistive Use)	0°C ≤ Ta ≤ +60°C
FL, FL MGuard 2102, FL MGuard 2102/K*	US: 12...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.12	12...36 VDC	3x0.25 A (General/Resistive Use)	-20 °C ≤ Ta ≤ +60 °C
FL MGuard 2105; FL MGuard 2105/K*;	US: 12...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.21	12...36 VDC	3x0.25 A (General/Resistive Use)	-20 °C ≤ Ta ≤ +60 °C
FL MGuard 3102	US: 18...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.0	18...36 VDC	3x0.25 A (General/Resistive Use)	0°C ≤ Ta ≤ +60°C
FL MGuard 3105	US: 18...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.06	18...36 VDC	3x0.25 A (General/Resistive Use)	0°C ≤ Ta ≤ +60°C
FL MGuard 3104-SFP	US: 18...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.09	18...36 VDC	3x0.25 A (General/Resistive Use)	0°C ≤ Ta ≤ +60°C
FL MGuard 3302	US: 12...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.12	12...36 VDC	3x0.25 A (General/Resistive Use)	-40 °C ≤ Ta ≤ +70 °C
FL MGuard 3305	US: 12...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.21	12...36 VDC	3x0.25 A (General/Resistive Use)	-40 °C ≤ Ta ≤ +70 °C
FL MGuard 3304-SFP	US: 12...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.26	12...36 VDC	3x0.25 A (General/Resistive Use)	-40 °C ≤ Ta ≤ +70 °C
FL MGuard 4302, FL MGuard 4302/K*,	US: 12...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.12	12...36 VDC	3x0.25 A (General/Resistive Use)	-40 °C ≤ Ta ≤ +60 °C
FL MGuard 4305, FL MGuard 4305/K*,	US: 12...36 VDC; 3 x Digital Input: 0...36 VDC, 5mA	1.21	12...36 VDC	3x0.25 A (General/Resistive Use)	-40 °C ≤ Ta ≤ +60 °C



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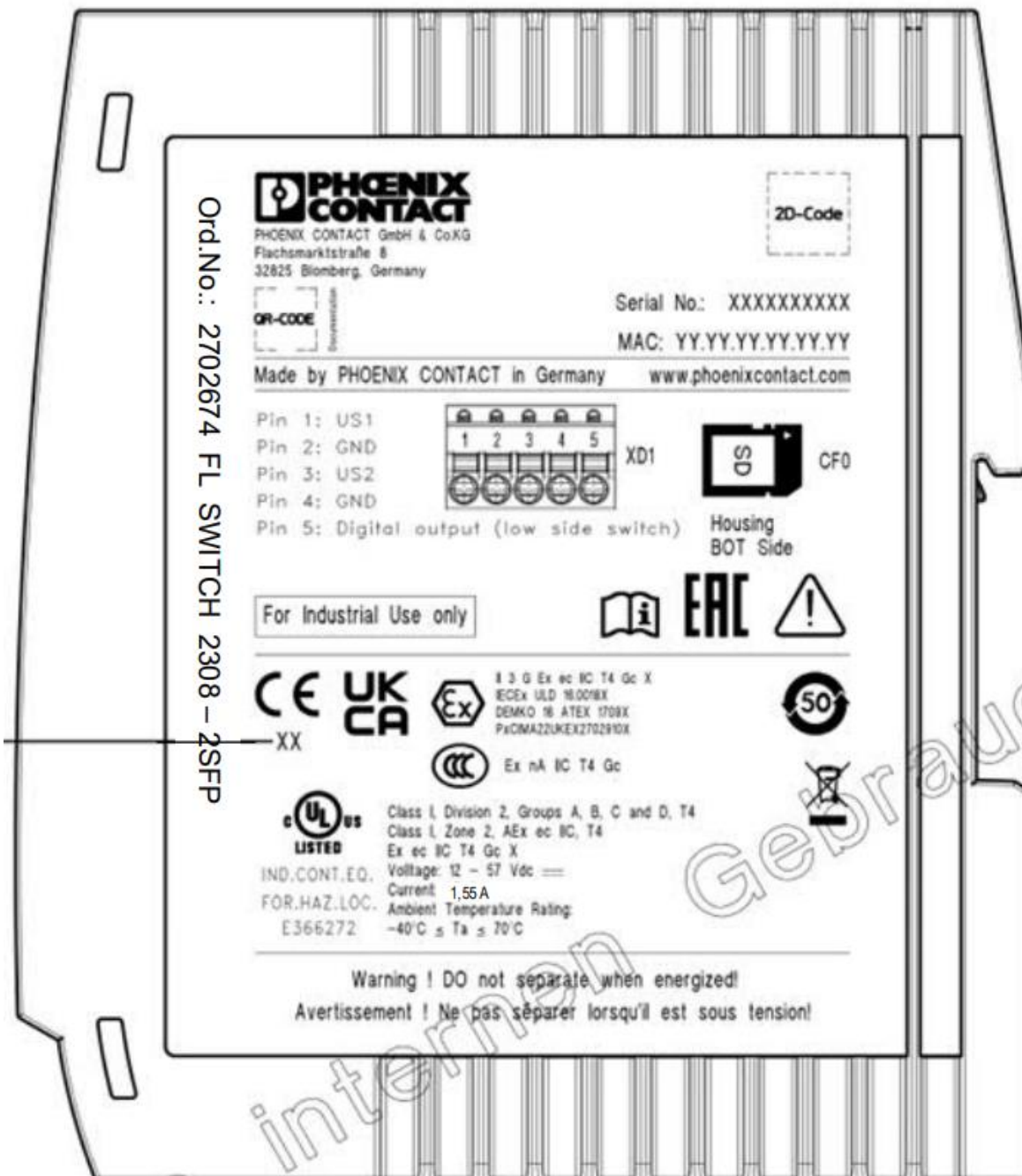
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MARKING

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

FL SWITCH Series:





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FL MGUARD Series:

Ord.No.: 1043202 FL MGUARD 3305



Phoenix Contact GmbH & Co. KG
Flachsmarktstraße 8
32825 Blomberg / Germany



Documentation

Serial No.: 2036544931

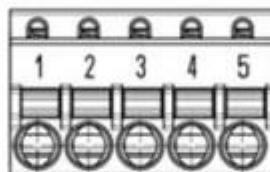
MAC: A8.74.1D.F1.61.81

For Industrial Use Only

Made by PHOENIX CONTACT in Germany

www.phoenixcontact.com

Pin 1: US1
Pin 2: GND
Pin 3: US2
Pin 4: GND
Pin 5: FE



XD1



CF 0



II 3 G Ex ec IIC T4 Gc X
IECEX ULD 16.0018X
DEMKO 16 ATEX 1709X

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IND.CONT.EQ.
FOR.HAZ.LOC.
E366272

Class I, Division 2, Groups A, B, C and D, T4
Class I, Zone 2, AEx ec IIC, T4
Ex ec IIC T4 Gc X

Voltage: 12 – 36 Vdc

Current: 1.21 A

Ambient Temperature Rating:

$-40^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$

Warning! Do not separate when energized!

Avertissement ! Ne pas séparer lorsqu'il est sous tension !



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ELECTRICAL RATINGS FL SWITCH -8 Port:
Rev.01

HW	MatNo	Type	Ambient Temperature	Voltage Range	max Current @Vmin/Tmax	Wire Range	Torque	OrdLoc	HazLoc	ATEX / IECEx
8 Port 100MBit	2702323	FL SWITCH 2005	0°C ≤ Ta ≤ 60°C	18 - 32 Vdc	0,3	30-14	5-7	x		
8 Port 100MBit	2702324	FL SWITCH 2008	0°C ≤ Ta ≤ 60°C	18 - 32 Vdc	0,35	30-14	5-7	x		
8 Port 100MBit	2702881	FL NAT 2008	0°C ≤ Ta ≤ 60°C	18 - 32 Vdc	0,35	30-14	5-7	x		
8 Port 100MBit	2702326	FL SWITCH 2205	-40°C ≤ Ta ≤ 70°C	9 - 57 Vdc	1,2	30-14	5-7	x	x	x
8 Port 100MBit	2702327	FL SWITCH 2208	-40°C ≤ Ta ≤ 70°C	9 - 57 Vdc	1,3	30-14	5-7	x	x	x
8 Port 100MBit	2702328	FL SWITCH 2207-FX	-40°C ≤ Ta ≤ 70°C	9 - 57 Vdc	1,4	30-14	5-7	x	x	x
8 Port 100MBit	2702329	FL SWITCH 2207-FX SM	-40°C ≤ Ta ≤ 70°C	9 - 57 Vdc	1,4	30-14	5-7	x	x	x
8 Port 100MBit	2702330	FL SWITCH 2206-2FX	-40°C ≤ Ta ≤ 70°C	9 - 57 Vdc	1,5	30-14	5-7	x	x	x
8 Port 100MBit	2702331	FL SWITCH 2206-2FX SM	-40°C ≤ Ta ≤ 70°C	9 - 57 Vdc	1,5	30-14	5-7	x	x	x
8 Port 100MBit	2702332	FL SWITCH 2206-2FX ST	-40°C ≤ Ta ≤ 70°C	9 - 57 Vdc	1,5	30-14	5-7	x	x	x
8 Port 100MBit	2702333	FL SWITCH 2206-2FX SM ST	-40°C ≤ Ta ≤ 70°C	9 - 57 Vdc	1,5	30-14	5-7	x	x	x
8 Port 100MBit	2702882	FL NAT 2208	-40°C ≤ Ta ≤ 70°C	9 - 57 Vdc	1,3	30-14	5-7	x	x	x
8 Port 100MBit	2702334	FL SWITCH 2204-2TC-2SFX	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,4	30-14	5-7	x	x	x
8 Port 100MBit	2702969	FL SWITCH 2206-2SFX	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,4	30-14	5-7	x	x	x
8 Port 100MBit	1044028	FL SWITCH 2206-2SFX PN	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,4	24-16	-	x	x	x
8 Port 100MBit	1044024	FL SWITCH 2208 PN	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,3	24-16	-	x	x	x
8 Port 100/1000MBit	2702665	FL SWITCH 2105	0°C ≤ Ta ≤ 60°C	18 - 32 Vdc	0,35	30-14	5-7	x		
8 Port 100/1000MBit	2702666	FL SWITCH 2108	0°C ≤ Ta ≤ 60°C	18 - 32 Vdc	0,4	30-14	5-7	x		
8 Port 100/1000MBit	2702652	FL SWITCH 2308	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,4	30-14	5-7	x	x	x
8 Port 100/1000MBit	1009220	FL SWITCH 2308 PN	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,4	24-16	-	x	x	x
8 Port 100/1000MBit	2702653	FL SWITCH 2304-2GC-2SFP	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,5	30-14	5-7	x	x	x
8 Port 100/1000MBit	2702970	FL SWITCH 2306-2SFP	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,5	30-14	5-7	x	x	x
8 Port 100/1000MBit	1009222	FL SWITCH 2306-2SFP PN	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,5	24-16	-	x	x	x
8 Port 100/1000MBit	2702981	FL NAT 2304-2GC-2SFP	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,5	30-14	5-7	x	x	x
8 Port 100/1000MBit	2702871	FL SWITCH 2208-2SFX	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,4	30-14	5-7	x	x	x
8 Port 100/1000MBit	2702674	FL SWITCH 2308-2SFP	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,55	30-14	5-7	x	x	x
8 Port 100/1000MBit	2702883	FL NAT 2308-2SFP	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,55	30-14	5-7	x	x	x

ELECTRICAL RATINGS FL SWITCH -16 Port:
Rev.01

HW	MatNo	Type	Ambient Temperature	Voltage Range	max Current @Vmin/Tmax	Wire Range	Torque	OrdLoc	HazLoc	ATEX / IECEx
16 Port 100MBit	2702903	FL SWITCH 2016	0°C ≤ Ta ≤ 60°C	18 - 32 Vdc	0,5	24-16	-	x		
16 Port 100MBit	2702904	FL SWITCH 2216	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,4	24-16	-	x	x	x
16 Port 100MBit	1044029	FL SWITCH 2216 PN	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,4	24-16	-	x	x	x
16 Port 100MBit	2702905	FL SWITCH 2214-2FX	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,8	24-16	-	x	x	x
16 Port 100MBit	2702906	FL SWITCH 2214-2FX SM	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,8	24-16	-	x	x	x
16 Port 100MBit	1006188	FL SWITCH 2214-2SFX	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,6	24-16	-	x	x	x
16 Port 100MBit	1044030	FL SWITCH 2214-2SFX PN	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,6	24-16	-	x	x	x
16 Port 100MBit	2702907	FL SWITCH 2212-2TC-2SFX	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,7	24-16	-	x	x	x
16 Port 100/1000MBit	2702908	FL SWITCH 2116	0°C ≤ Ta ≤ 60°C	18 - 32 Vdc	0,7	24-16	-	x		
16 Port 100/1000MBit	2702909	FL SWITCH 2316	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,8	24-16	-	x	x	x
16 Port 100/1000MBit	1031673	FL SWITCH 2316 PN	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	1,8	24-16	-	x	x	x
16 Port 100/1000MBit	1006191	FL SWITCH 2314-2SFP	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	2	24-16	-	x	x	x
16 Port 100/1000MBit	1031683	FL SWITCH 2314-2SFP PN	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	2	24-16	-	x	x	x
16 Port 100/1000MBit	2702910	FL SWITCH 2312-2GC-2SFP	-40°C ≤ Ta ≤ 70°C	12 - 57 Vdc	2	24-16	-	x	x	x

Note: Only models marked with “x” in the ATEX/IECEx column are part of the scope of this IECEx certification.



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HW	Type	Ambient Temperature (°C)	Voltage Range (V_DC)	max Current (A_DC) @Vmin/ Tmax	Wire Range (AWG)
2 Port 10/100/1000MBit	FL MGuard 1102	$0 \leq T_a \leq 60$	18 to 36	1	24-16
5 Port 10/100/1000MBit	FL MGuard 1105	$0 \leq T_a \leq 60$	18 to 36	1.06	24-16
2 Port 10/100/1000MBit	FL MGuard 2102, FL MGuard 2102/K*	$-20 \leq T_a \leq 60$	12 to 36	1.12	24-16
5 Port 10/100/1000MBit	FL MGuard 2105, FL MGuard 2105/K*	$-20 \leq T_a \leq 60$	12 to 36	1.21	24-16
2 Port 10/100/1000MBit	FL MGuard 3102	$0 \leq T_a \leq 60$	18 to 36	1	24-16
5 Port 10/100/1000MBit	FL MGuard 3105	$0 \leq T_a \leq 60$	18 to 36	1.06	24-16
5 Port 10/100/1000MBit incl. 1 SFP-Port	FL MGuard 3104- SFP	$0 \leq T_a \leq 60$	18 to 36	1.09	24-16
2 Port 10/100/1000MBit	FL MGuard 3302	$-40 \leq T_a \leq 70$	12 to 36	1.12	24-16
5 Port 10/100/1000MBit	FL MGuard 3305	$-40 \leq T_a \leq 70$	12 to 36	1.21	24-16
5 Port 10/100/1000MBit incl. 1 SFP-Port	FL MGuard 3304- SFP	$-40 \leq T_a \leq 70$	12 to 36	1.255	24-16
2 Port 10/100/1000MBit	FL MGuard 4302, FL MGuard 4302/K*,	$-40 \leq T_a \leq 60$	12 to 36	1.12	24-16
5 Port 10/100/1000MBit	FL MGuard 4305, FL MGuard 4305/K*	$-40 \leq T_a \leq 60$	12 to 36	1.21	24-16