

TYPE EXAMINATION CERTIFICATE



[1]

[2]

Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3]

Type Examination Certificate Number: **UL 21 ATEX 2638X Rev. 0**

[4]

Product: **Open Type, Industrial Network equipment (Unmanaged narrow Ethernet Switch),
Models FL SWITCH 1005NT, FL SWITCH 1004NT-SFX, FL SWITCH 1008NT, FL SWITCH 1005NT-2SFX,
FL SWITCH 1105NT, FL SWITCH 1108NT, FL SWITCH 1012NT-2SFP, FL SWITCH 1116N, FL SWITCH
1104NT-SFP, FL SWITCH 1105NT-2SFP, may be followed by suffix -C or C for PCB conformal coating**

[5]

Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**

[6]

Address: **Flachsmarktstraße 8, 32825 Blomberg, Germany**

[7]

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **US/UL/ExTR21.0119/00.**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN IEC 60079-7: 2015 +A1:2018

except in respect of those requirements listed at item 18 of the Schedule.

[10]

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11]

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12]

The marking of the product shall include the following:



II 3 G Ex ec IIC T4 Gc

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2022-01-28

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

UL 21 ATEX 2638X Rev. 0

[15]

Description of Product:

The devices are open-type, DIN rail mounted Industrial Ethernet Switch with multiple data transmission ports and fiber optic interfaces. The Devices are intended for installation in an ultimate enclosure where the internal compartment is only accessible by use of a tool.

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1] and 3] to the scope of EN 60079-28:2015 .

Temperature range:

Model :	Ambient Temperature Range :	Temperature class:	
FL SWITCH 1005NT,	-40°C to 75°C	T4	
FL SWITCH 1004NT-SFX			
FL SWITCH 1008NT			
FL SWITCH 1005NT-2SFX			
FL SWITCH 1105NT			
FL SWITCH 1108NT			
FL SWITCH 1012NT-2SFP			
FL SWITCH 1116N	-10°C to 60°C		
FL SWITCH 1104NT-SFP	-40°C to 75°C		
FL SWITCH 1105NT-2SFP			

Electrical data

Model :	Input Rating :
FL SWITCH 1005NT,	24 Vdc/Vac, 50/60 Hz, Max. 115 mA
FL SWITCH 1004NT-SFX	24 Vdc/Vac, 50/60 Hz, Max. 215 mA
FL SWITCH 1008NT	24 Vdc/Vac, 50/60 Hz, Max. 170 mA
FL SWITCH 1005NT-2SFX	24 Vdc/Vac, 50/60 Hz, Max. 310 mA
FL SWITCH 1105NT	24 Vdc/Vac, 50/60 Hz, Max. 335 mA.
FL SWITCH 1108NT	24 Vdc/Vac, 50/60 Hz, Max. 435 mA
FL SWITCH 1012NT-2SFP	24 Vdc, Max. 480 mA.
FL SWITCH 1116N	24 Vdc, Max. 925 mA
FL SWITCH 1104NT-SFP	24 Vdc/Vac, 50/60 Hz, Max. 425 mA
FL SWITCH 1105NT-2SFP	24 Vdc/Vac, 50/60 Hz, Max. 560 mA

Routine tests:

No routine tests required.

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

[17]

Special Conditions of Use:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- The equipment shall be installed in a tool-accessible enclosure that provides a minimum ingress protection of IP 54 in accordance with EN 60079-0.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminal to the devices.

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The trademark



will be used as the company identifier on the marking label.

