



TYPE APPROVAL CERTIFICATE
No. ELE014724XG/001

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Programmable logic controller
<i>Type</i>	Ethernet switches: FL Switch series; FL NAT series
<i>Applicant</i>	PHOENIX CONTACT - GMBH & CO KG FLACHSMARKTSTRASSE 8 32825 BLOMBERG GERMANY
<i>Manufacturer</i>	PHOENIX CONTACT - GMBH & CO KG
<i>Place of manufacture</i>	FLACHSMARKTSTRASSE 8 32825 BLOMBERG GERMANY
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **HAMBURG** on **April 2, 2024**. *This Certificate is valid until* **April 1, 2029**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

No. **ELE014724XG/001**

Enclosure - Page 1 of 3

Ethernet switches: FL Switch series

FL NAT series

Product Description:

The FL SWITCH series are Managed Switches for DIN Rail mounting.

The FL NAT series are Managed Switches with NAT Router functionality for DIN Rail mounting.

No. / Types	Description
2702326 FL SWITCH 2205	Managed Switch, 5x 10/100MBit
2702327 FL SWITCH 2208	Managed Switch, 8x 10/100MBit
1044024 FL SWITCH 2208 PN	Managed Switch, 8x 10/100MBit, PROFINET status LEDs (SF, BF), and PROFINET mode
2702882 FL NAT 2208	Managed Switch/NAT router, 8x 10/100MBit
2702328 FL SWITCH 2207-FX	Managed Switch, 8x 10/100MBit incl. 1x FO port in SC format for multimode
2702329 FL SWITCH 2207-FX SM	Managed Switch, 8x 10/100MBit incl. 1x FO port in SC format for single mode
2702330 FL SWITCH 2206-2FX	Managed Switch, 8x 10/100MBit incl. 2x FO ports in SC format for multimode
2702331 FL SWITCH 2206-2FX SM	Managed Switch, 8x 10/100MBit incl. 2x FO ports in SC format for single mode
2702332 FL SWITCH 2206-2FX ST	Managed Switch, 8x 10/100MBit incl. 2x FO ports in ST format for multimode
2702333 FL SWITCH 2206-2FX SM ST	Managed Switch, 8x 10/100MBit incl. 2x FO ports in ST format for single mode
1044028 FL SWITCH 2206-2SFX PN	Managed Switch, 8x 10/100MBit incl. 2x SFX, PROFINET status LEDs (SF, BF), and PROFINET mode
2702652 FL SWITCH 2308	Managed Switch, 8x 10/100/1000MBit
1009220 FL SWITCH 2308 PN	Managed Switch, 8x 10/100/1000MBit, PROFINET status LEDs (SF, BF), and PROFINET mode
2702334 FL SWITCH 2204-2TC-2SFX	Managed Switch, 8x 10/100MBit incl. 2/4x SFX
2702970 FL SWITCH 2306-2SFP	Managed Switch, 8x 10/100/1000MBit incl. 2x SFP
1009222 FL SWITCH 2306-2SFP PN	Managed Switch, 8x 10/100/1000MBit incl. 2x SFP, PROFINET status LEDs (SF, BF), and PROFINET mode
2702981 FL NAT 2304-2GC-2SFP	Managed Switch/NAT router, 8x Port 10/100/1000MBit incl. 2/4x SFP
2702969 FL SWITCH 2206-2SFX	Managed Switch, 8 10/100MBit incl. 2x SFX
2702653 FL SWITCH 2304-2GC-2SFP	Managed Switch, 8 10/100/1000MBit incl. 2/4x SFP
2702904 FL SWITCH 2216	Managed Switch, 16x 10/100MBit
1044029 FL SWITCH 2216 PN	Managed Switch, 16x 10/100MBit, PROFINET status LEDs (SF, BF), and PROFINET mode
2702905 FL SWITCH 2214-2FX	Managed Switch, 16x 10/100MBit incl. 2x FO ports in SC format for multimode
2702906 FL SWITCH 2214-2FX SM	Managed Switch, 16x 10/100MBit incl. 2x FO ports in SC format for single mode
1006188 FL SWITCH 2214-2SFX	Managed Switch, 16x 10/100MBit incl. 2x SFX



TYPE APPROVAL CERTIFICATE

No. ELE014724XG/001

Enclosure - Page 2 of 3**Ethernet switches: FL Switch series
FL NAT series**

No. / Types	Description
1044030 FL SWITCH 2214-2SFX PN	Managed Switch, 16x 10/100MBit incl. 2x SFX, PROFINET status LEDs (SF, BF), and PROFINET mode
2702907 FL SWITCH 2212-2TC-2SFX	Managed Switch, 16x 10/100MBit, incl. 2/4x SFX
2702909 FL SWITCH 2316	Managed Switch, 16x 10/100/1000MBit
1031673 FL SWITCH 2316 PN	Managed Switch, 16x 10/100/1000MBit, PROFINET status LEDs (SF, BF), and PROFINET Mode
1006191 FL SWITCH 2314-2SFP	Managed Switch, 16x 10/100/1000MBit incl. 2x SFP
1031683 FL SWITCH 2314-2SFP PN	Managed Switch, 16x 10/100/1000MBit incl. 2/4x SFP, PROFINET status LEDs (SF, BF), and PROFINET mode
2702910 FL SWITCH 2312-2GC-2SFP	Managed Switch, 16x 10/100/1000MBit incl. 2/4x SFP (DUT)
1043412 FL SWITCH 2408	Managed Switch, 8x Port 10/100MBit
1043414 FL SWITCH 2406-2SFX	Managed Switch, 8x Port 10/100MBit incl. 2x SFX
1043484 FL SWITCH 2508	Managed Switch, 8x Port 10/100/1000MBit
1043491 FL SWITCH 2506-2SFP	Managed Switch, 8x Port 10/100/1000MBit incl. 2x SFP
1088853 FL SWITCH 2404-2TC-2SFX	Managed Switch, 8x Port 10/100MBit incl. 2/4x SFX
1089126 FL SWITCH 2406-2SFX PN	Managed Switch, 8x Port 10/100MBit incl. 2x SFX, PROFINET status LEDs (SF, BF), and PROFINET mode
1089133 FL SWITCH 2408 PN	Managed Switch, 8x Port 10/100MBit, PROFINET status LEDs (SF, BF), and PROFINET mode
1089134 FL SWITCH 2508 PN	Managed Switch, 8x Port 10/100/1000MBit, PROFINET status LEDs (SF, BF), and PROFINET mode
1215350 FL SWITCH 2508/K1	Managed Switch, 8x Port 10/100/1000MBit, without pot. free output
1089135 FL SWITCH 2506-2SFP PN	Managed Switch, 8x Port 10/100/1000MBit incl. 2x SFP, PROFINET status LEDs (SF, BF), and PROFINET mode
1215329 FL SWITCH 2506-2SFP/K1	Managed Switch, 8x Port 10/100/1000MBit incl. 2x SFP, without pot. free output
1088872 FL SWITCH 2504-2GC-2SFP	Managed Switch, 8x Port 10/100/1000MBit incl. 2/4x SFP (DUT)
1043416 FL SWITCH 2416	Managed Switch, 16x Port 10/100Mbit
1043423 FL SWITCH 2414-2SFX	Managed Switch, 16x Port 10/100MBit incl. 2x SFX
1043496 FL SWITCH 2516	Managed Switch, 16x Port 10/100/1000MBit
1043499 FL SWITCH 2514-2SFP	Managed Switch, 16x Port 10/100/1000MBit incl. 2x SFP
1088875 FL SWITCH 2412-2TC-2SFX	Managed Switch, 16x Port 10/100/MBit incl. 2/4x SFX
1089150 FL SWITCH 2416 PN	Managed Switch, 16x Port 10/100MBit, PROFINET status LEDs (SF, BF), and PROFINET mode
1089139 FL SWITCH 2414-2SFX PN	Managed Switch, 16x Port 10/100MBit incl. 2x SFX, PROFINET status LEDs (SF, BF), and PROFINET mode
1089154 FL SWITCH 2514-2SFP PN	Managed Switch, 16x Port 10/100/1000MBit incl. 2x SFP, PROFINET status LEDs (SF, BF), and PROFINET mode
1089205 FL SWITCH 2516 PN	Managed Switch, 16x Port 10/100/1000MBit, PROFINET status LEDs (SF, BF), and PROFINET mode
1088856 FL SWITCH 2512-2GC-2SFP	Managed Switch, 16x Port 10/100/1000MBit incl. 2/4x SFP (DUT)



TYPE APPROVAL CERTIFICATE
No. **ELE014724XG/001**
Enclosure - Page 3 of 3
Ethernet switches: FL Switch series
FL NAT series

No. / Types	Description
Pluggable input/output module for fiber optics	
2891754 FL SFP SX	Gigabit module with a wavelength of 850nm MM
2891767 FL SFP LX	Gigabit module with a wavelength of 1310nm SM
2702397 FL SFP SX2	Gigabit module with a wavelength of 1310nm MM
2702437 FL SFP FE WDM20-A	Fast Ethernet SFP WDM module with a wavelength of 1310/1550nm SM
2702438 FL SFP FE WDM20-B	Fast Ethernet SFP WDM module with a wavelength of 1550/1310nm SM
2702439 FL SFP FE WDM20-SET	Fast Ethernet SFP WDM set with a wavelength of 1310/1550nm SM
2702440 FL SFP WDM10-A	Gigabit SFP WDMmodule with a wavelength of 1310/1550nm SM
2702441 FL SFP WDM10-B	Gigabit SFP WDM module with a wavelength of 1550/1310nm SM
2702442 FL SFP WDM10-SET	Gigabit SFP WDM set with a wavelength of 1310/1550nm SM
2891081 FL SFP FX	Fast Ethernet Small plug-in module with a wavelength of 1310nm MM
2891082 FL SFP FX SM	Fast Ethernet Small plug-in module with a wavelength of 1310nm SM
2989912 FL SFP LH	Gigabit module with a wavelength of 1550nm SM

Note: Not listed devices with /K1 to /K9 or /KA to /KZ as additional name suffix are certified devices according to the above list, which are pre-configured 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 pre-configured at the factory and delivered to the customer.

Software:

Firmware: 3.xx

Documents:

Data sheet: - 9072862 Rev.02 dated 02.12.16; MNR 9072691-00 dated 2016-01-25; 2702653_00_BOM;

User manual;107065_en_00 dated 2016-11-07; User Manual_FL NAT 2xxx;

Firmware: Declaration,Report,2000,Firmware,290,to,300; Declaration_Report_2000_Firmware_300_to_321_signed;

Delta Report_2000er_8and16Port_wMA - 20230224;

QSP_FL_SWITCH_2000_Family_321

Test reports:

Phoenix Testlab: - E161521E1 dated 30.11.2016; U161521E1 dated 23.11.2016; E181461E1 dated 07.12.2018; U181461E1 dated 11.02.2019; E200055E1, rev. 3 dated 19.05.2020; E200055E2, rev. 3 dated 19.05.2020; E201452E1 dated 28.10.2020; U200055E1 dated 28.04.2020

Remarks:

- The products fulfill EC-Code: EC31.

This certificate annuls and replaces the previous one n° ELE162721XG.

HAMBURG April 2, 2024

Giuseppe Russo