



TYPE APPROVAL CERTIFICATE
No. ELE068318XG

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>	ISON Switch series
<i>Applicant</i>	Data Respons Norge AS Sandviksveien 26 1363 Hovik NORWAY
<i>Manufacturer</i>	ISON Technology Co. Ltd.
<i>Place of manufacture</i>	Room 2, 5F, No.77, Sec. 1, Xintai 5 th Rd. Xizhi Dist. 22101 New Taipei TAIWAN
<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 **March 6, 2018.** *This Certificate is valid until* **March 5, 2023**



RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure



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ISON Switch series

Product Description:

The ISON Switch series are Unmanaged and Managed Switches for DIN Rail mounting for 24V DC power supply.

Series	Type:	Designation
Unmanaged Switches:		
IS-DG308-DR series	8-port Gigabit Unmanaged Layer 2 Industrial Ethernet Switch	
	IS-DG308-DR	8x 10/100/1000Mb Tx Ports
	IS-DG308-2F-DR	6x 10/100/1000Mb Tx Ports + 2x 100/1000 Base SFP Ports
IS-DF308-DR series	8-port Fast Ethernet Unmanaged Layer 2 Industrial Ethernet Switch	
	IS-DF308-DR	8x 10/100Mb Tx Ports
	IS-DF308-2F-DR	6x 10/100Mb Tx Ports + 2x 100 Base SFP ports
IS-DG305-DR Series	5-port Gigabit Unmanaged Layer 2 Industrial Ethernet Switch	
	IS-DG305-DR	5x 10/100/1000Mb Tx Ports
	IS-DG305-F-DR	4x 10/100/1000Mb Tx Ports + 1x 100/1000 Base SFP ports
IS-DF305-DR series	5-port Fast Ethernet Unmanaged Layer 2 Industrial Ethernet Switch	
	IS-DF305-DR	5x 10/100Mb Tx Ports
	IS-DF305-M-DR	4x 10/100Mb Tx Ports + 1x 100 Base FX MultiMode
	IS-DF305-S-DR	4x 10/100Mb Tx Ports + 1x 100 Base FX SingleMode
IS-DF310-DR series	10-port Fast Ethernet Unmanaged Layer 2 Industrial Ethernet Switch	
	IS-DF310-8F-DR	2x 10/100Mb Tx Ports + 8x 100 Base SFP ports
Managed Switches:		
IS-DG514-DR Series	14-port Gigabit Din-Rail Managed Layer 2/4 Industrial Ethernet Switch	
	IS-DG514-4F-DR	10x 10/100/1000Mb Tx Ports + 4x 100/1000 Base SFP Ports
IS-DG512-DR series	12-port Gigabit Din-Rail Managed Layer 2/4 Industrial Ethernet Switch	
	IS-DG512-4F-DR	8x 10/100/1000Mb Tx Ports + 4x 100/1000 Base SFP Ports
IS-DG510-DR Series	10-port Gigabit Din-Rail Managed Layer 2/4 Industrial Ethernet Switch	
	IS-DG510-DR	10x 10/100/1000Mb Tx Ports
	IS-DG510-2F-DR	8x 10/100/1000Mb Tx Ports + 2x 100/1000 Base SFP Ports
	IS-DG510-4F-DR	6x 10/100/1000Mb Tx Ports + 4x 100/1000 Base SFP Ports
IS-DG508-DR Series	8-port Gigabit Din-Rail Managed Layer 2/4 Industrial Ethernet Switch	
	IS-DG508-DR	8x 10/100/1000Mb Tx Ports
	IS-DG508-2F-DR	6x 10/100/1000Mb Tx Ports + 2x 100/1000 Base SFP Ports
IS-DG506-DR Series	6-port Gigabit Din-Rail Managed Layer 2/4 Industrial Ethernet Switch	
	IS-DG506-DR	6x 10/100/1000Mb Tx Ports
	IS-DG506-2F-DR	4x 10/100/1000Mb Tx Ports + 2x 100/1000 Base SFP Ports

Documents:

Data sheets: - IS-DF305-DR-Series Rev. A Vers. 1 dated 2016-09-22; IS-DF308-DR Series Rev. A Vers. 1 dated 2016-09-28;
- IS-DG305-DR Series Rev. A Vers. 1 dated 2016-09-28; IS-DG308-DR Series Rev. A Vers. 1 dated 2016-09-29;
- IS-DG506-DR Series Rev. A Vers. 1 dated 2016-09-29; IS-DG508 DR Series Rev. A Vers. 1 dated 2016-09-30;
- IS-DG510-DR Series Rev. A Vers. 1 dated 2016-10-05; IS-DG512 DR Series Rev. A Vers. 1 dated 2016-09-30;
- IS-DG514 DR Series Rev. A Vers. 1 dated 2016-09-30; IS-DF310-8F DR Series Rev. A Vers. 1 dated 28.09.2017



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ISON Switch series

Test reports:

Data respons: - 5100070-800 R1.0 dated 16/01/2018

Nemko AS: - E16160.00 dated 2016-09-26

Remarks:

- The products fulfill **EC-Code: EC3a1**.
- The EMC requirements for installation on the Bridge and Deck Zones will be fulfilled by the equipment.
- The minimum safe distance of the equipment to a standard or a steering magnetic compass is to be considered.
For unmanaged switches: Compass safe distance: Standard compass: 80 cm, Other compass: 50 cm
For managed switches: Compass safe distance: Standard compass: 80 cm, Other compass: 60 cm
- Drawings of each system configuration is to be sent for approval before installation on board.

HAMBURG March 06, 2018



A handwritten signature in black ink, appearing to read 'J. P. ...', is written to the right of the RINA logo.