



(1) **EC-Type Examination Certificate**

(2) **Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC**

(3) **EC Type Examination Certificate Number**

**EPS 14 ATEX 1 754 X**

**Revision: 0**

(4) **Equipment:** Industrial Ethernet Rail Switch

(5) **Manufacturer:** Hirschmann Automation and Control GmbH

(6) **Address:** Stuttgarter Strasse 45-51, 72654 Neckartenzlingen

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 14TH0360.

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

**EN 60079-0:2012 + A11:2013 EN 60079-15:2010**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

(12) The marking of the equipment shall include the following:



II 3G Ex nA IIC T4 Gc

Certification department of explosion protection

Nuremberg, October 24, 2014



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(13)

## Annexe

(14) **EC-Type Examination Certificate EPS 14 ATEX 1 754 X**

(15) Description of equipment:

The SPIDER II 16TX devices are designed for the special requirements of industrial automation. They meet the relevant industry standards, provide very high operational reliability, even under extreme conditions, and also long-term reliability and flexibility. The devices allow to set up switched industrial Ethernet networks that conform to the IEEE 802.3 standard.

The devices differ with regard to the number of interfaces and the media type for connecting segments. The table below shows the number and type of ports for each device variant. The abbreviations F/O (fiber optic) and TP (twisted pair) indicate the media type. The abbreviations SFP and RJ45 indicate the socket type.

Variant	RJ45 socket for 10/100 Mbit/s twisted-pair port	SFP slot for 100/1000 Mbit/s F/O port
SPIDER II 16TX EEC	16	0
SPIDER II 16TX/2DS-S EEC	16	2

Electrical data:

Rated voltage DC 24 V. Current consumption at 24 V DC:

- SPIDER II 16TX EEC 0.41 A
- SPIDER II 16TX/2DS-S EEC 0.45 A

(16) Test report: 14TH0360

(17) Special conditions for safe use:

Subject devices are to be installed in an ATEX certified IP54 (as defined in EN 60079-0 and EN 60079-15) enclosure and accessible only by the use of a tool. Provision shall be made to prevent the rated voltage being exceeded by the transient disturbances of more than 140% of the peak rated voltage. When end users are providing Optical SFP Communications modules, these must be limited to Laser Class I only.

(18) Essential health and safety requirements:

Met by standards.

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Certificates without signature are void. This certificate is allowed to be distributed only if not modified.  
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