

CERTIFICATE

(1) Type Examination

(2) **Product intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) Type Examination Certificate Number: **DEKRA 16ATEX0108 X** Issue Number: **1**

(4) Product: **Industrial Ethernet Rail Switch SPIDER III PL Series**

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

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

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

(8) DEKRA Certification B.V., 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 test report no. NL/DEK/ExTR16.0098/01.

(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

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 and construction of the specified product and not to the manufacturing process and its monitoring.

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



II 3 G

Ex nA IIC T4 Gc

Date of certification: **17 Augustus 2018**

DEKRA Certification B.V.

R. Schuller
Certification Manager

Page 1/4

© Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 16ATEX0108 X**

Issue No. 1

(15) **Description**

The SPIDER III PL Series for rail mounting and intended for use in industrial automation applications, communicate via electrical or optical interfaces. For nomenclature see table 1.

Ambient temperature range: -40 °C to +70 °C.

Table 1

Meaning	Product	-	Data rate	Power-over-Ethernet (PoE)	-	Number twisted pair ports	Optical fiber port 1	Optical fiber port 2	Optical fiber port 3	Temperature range	Certificates and declarations	Customer-specific version	Configuration
Item:	1	2	3	4	5	6	7	8	9	10	11	12	13
Example:	SPIDER-PL	-	2	0	-	04T1	M2	M2	99	T	W9	HH	HH

1	Product	
	SPIDER-PL	
2	-	
	-	
3	Data rate	
	2	10/100 Mbit/s
	3	10/100 Mbit/s and 10/100/1000 Mbit/s
	4	10/100/1000 Mbit/s
4	Power over Ethernet PoE	
	0	Without PoE Support
5	-	
	-	
6	Number twisted pair ports	
	01T1	
	04T1	
	05T1	
	06T1	
	07T1	
	08T1	
	16T1	
	24T1	
7	Optical fiber port 1	
	M2	DSC multimode socket for 100 Mbit/s F/O connections
	S2	DSC singlemode socket for 100 Mbit/s F/O connections
	M4	ST multimode socket for 100 Mbit/s F/O connections

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 16ATEX0108 X**

Issue No. 1

	O6	SFP slot for 100/1000 Mbit/s F/O connections
	Z6	SFP slot for 100 Mbit/s F/O connections
	99	without

8	Optical fiber port 2	
	M2	DSC multimode socket for 100 Mbit/s F/O connections
	S2	DSC singlemode socket for 100 Mbit/s F/O connections
	O6	SFP slot for 100 Mbit/s connections
	Z6	SFP slot for 100 Mbit/s F/O connections
	99	without
9	Optical fiber port 3	
	Z6	SFP slot for 100 Mbit/s F/O connections
	99	without
10	Temperature Range	
	T	Extended -40°C... +70°C (-40°F...+158°F)
	E	Extended with Conformal Coating -40°C... +70°C (-40°F...+158°F)
11	Certificates and declarations	
	Z9	CE, FCC, EN61131
	Y9	Z9+ cUL61010
	X9	"Y9" + ISA 12.12.01
	W9	"Z9" + ATEX Zone 2
	UY	"Y9" + GL/DNV
	TY	"Y9" + EN50121-4
	R9	Z9 +E1
	WV	X9 +ATEX Zone 2 + GL/DNV +EN50121-4 + E1
	WW	X9 + ATEX Zone 2 +GL/DNV + IEC61850, IEEE1613 + EN50121-4
12	Customer specific version	
	HH	Hirschmann standard
	HK	Voltage terminal with spring
13	Configuration	
	HH	Hirschmann standard
	HV	Extended voltage range (48 V DC, 24V AC)

Electrical data

Supply: 12 ... 24 Vdc, 0,093 ... 0,72A (identification mark HH) or
12 ... 48 Vdc, 0,058 ... 0,70A and 24Vac, 0,16 ... 0,53A (identification mark HV)

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 16ATEX0108 X**

Issue No. 1

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR16.0098/01.

(17) **Specific conditions of use**

1. The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60079-15, taking into account the environmental conditions under which the equipment will be used.
2. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 140 %.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR16.0098/01.

(20) **Certificate history**

Issue 0 -	219728100	Initial certificate
Issue 1 -	222480500	Addition of modules