[1] # TYPE EXAMINATION CERTIFICATE

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

[3] Type Examination Certificate Number: **DEMKO 11 ATEX 150191X Rev. 4**

[4] Product: **Industrial Ethernet Switch, Series IE-SW-VL16, IE-SW-VL16T, IE-SW-PL16M, IE-SW-PL16MT, IE-SW-PL18M and IE-SW-PL18MT**

[5] Manufacturer: **Weidmüller Interface GmbH & Co KG**

[6] Address: **Klingenbergstraße 16, 32758 Detmold, 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. **4788359770**

[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 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 nA nC 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: 2011-04-27
Re-issued: 2018-05-07

Certification Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[13] [14]

Schedule
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[15] Description of Product:
The models are DIN rail mounted industrial application ethernet communication devices. They are intended for Industrial Applications, pollution degree 2 environments. They are microcomputer-based and communicate via interfaces through wire. Subject models are of the open type and are intended for installation into a suitable enclosure.

Series IE-SW-VL16 and Series IE-SW-VL16T, may be followed by -16TX or -14TX, may be followed by -2SC or -2ST.
Series IE-SW-PL16M and Series IE-SW-PL16MT, may be followed by -16TX or -14TX, may be followed by –2SC or –2ST.
Series IE-SW-PL18M-2GC and Series IE-SW-PL18MT, may be followed by -16TX or -14TX, may be followed by –2SC or –2ST.

Model Differences

Model	No. of Ethernet RJ45 Ports	No. of Fiber Port (M.M.)	No. of Fiber Port (S.M.)
IE-SW-VL16-16TX	16	-	-
IE-SW-VL16T-16TX	16	-	-
IE-SW-VL16-14TX-2SC	14	2	-
IE-SW-VL16T-14TX-2SC	14	2	-
IE-SW-VL16-14TX-2ST	14	2	-
IE-SW-VL16T-14TX-2ST	14	2	-
Model	No. of Ethernet RJ45 Ports	No. of Fiber Port (M.M.)	No. of Fiber Port (S.M.)
IE-SW-PL16M-16TX	16	-	-
IE-SW-PL16MT-16TX	16	-	-
IE-SW-PL16M-14TX-2SC	14	2	-
IE-SW-PL16MT-14TX-2SC	14	2	-
IE-SW-PL16M-14TX-2ST	14	2	-
IE-SW-PL16MT-14TX-2ST	14	2	-

Model	No. of Ethernet RJ45 Ports	No. of Fiber Port (M.M.)	No. of Fiber Port (S.M.)	No. of GBIC Module
IE-SW-PL18M-2GC-16TX	16	-	-	2
IE-SW-PL18MT-2GC-16TX	16	-	-	2
IE-SW-PL18M-2GC14TX2SC	14	2	-	2
IE-SW-PL18MT-2GC14TX2SC	14	2	-	2
IE-SW-PL18M-2GC14TX2ST	14	2	-	2
IE-SW-PL18MT-2GC14TX2ST	14	2	-	2
IE-SW-PL18M-2GC14TX2SCS	14	-	2	2
IE-SW-PL18MT-2GC14TX2SCS	14	-	2	2

Note: S.M. – Single-mode Fiber
M.M. – Multi-mode Fiber

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 not covered in this certificate.

Temperature range:
The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	**Temperature class**
-40°C to +75°C	T4
For Models IE-SW-VL16(X)-16TX, IE-SW-VL16(X)-14TX-2SC, IE-SW-VL16(X)-14TX-2ST, Where (X) can be T or a blank. -40°C to +75°C for suffix with T 0 °C to +60 °C for suffix without T	T4

[13] **Schedule**

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Electrical data

Model	Electrical Rating	Relay Output	Protection Method
Series IE-SW-VL16-16TX	12-48VDC, 0.6A,	24VDC, 1A, Resistive	nA nC
Series IE-SW-VL16T-16TX	12-48VDC, 0.6A,	24VDC, 1A, Resistive	nA nC
Series IE-SW-PL16M-16TX	12-48VDC, 1.6A,	24VDC, 1A, Resistive	nA nC
Series IE-SW-PL16MT-16TX	12-48VDC, 1.6A,	24VDC, 1A, Resistive	nA nC
Series IE-SW-PL18M-2GC-16TX	12-48VDC, 1.6A,	24VDC, 1A, Resistive	nA nC
Series IE-SW-PL18MT-2GC-16TX	12-48VDC, 1.6A,	24VDC, 1A, Resistive	nA nC
For alternate construction IE-SW-VL16-16TX, IE-SW-VL16T-16TX, IE-SW-VL16-14TX-2SC, IE-SW-VL16T-14TX-2SC, IE-SW-VL16-14TX-2ST, IE-SW-VL16T-14TX-2ST	12/24/48 VDC, 0.86/0.4/0.2A, Class 2 or 12-48Vdc, 0.86-0.2A, Class 2 or 12-48Vdc, 0.86A max., Class 2 or 12Vdc, 0.86A, Class 2 or 24Vdc, 0.4A, Class 2 or 48Vdc, 0.2A, Class 2	24VDC, 1A, Resistive	nA nC

Routine tests:
No routine tests are necessary.

[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 Ethernet Communication Devices are to be mounted in an ATEX-Certified tool-accessible IP54 enclosure and used in an area of not more than pollution degree 2 as defined by EN 60664-1.
- Provisions shall be made, either in the equipment or external to the equipment, to provide the transient protection device to be set at a level not exceeding 140% of the peak rated voltage.

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