

TYPE EXAMINATION CERTIFICATE



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

Type Examination Certificate Number: **DEMKO 11 ATEX 150193X Rev. 8**

Product: **Programmable Controller Communication Interface Units, Series Models IE-SW-BL05, IE-SW-BL05T, IE-SW-BL08 and IE-SW-BL08T**

Manufacturer: **Weidmüller Interface GmbH & Co. KG**

Address: **Klingenbergstraße 26, Detmold 32758 Germany**

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

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. **4791330913.1.1.**

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

EN IEC 60079-0:2018

EN IEC 60079-7:2015/A1:2018

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

 **II 3 G Ex ec IIC T4 Gc**

Certification Manager

Thomas Wilson

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: 2011-04-20

Re-issued: 2024-07-26

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule

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Description of Product:

Series Models IE-SW-BL05 and Series Models IE-SW-BL08 are open type communication interface units and are intended for use in industrial automation applications. They are microcomputer-based and communicate via interfaces through wire. These devices are open-type devices intended for installation in an ultimate enclosure. Model IE-SW-BL05 consists of one circuit board (main board) while the IE-SW-BL08 Models consist of two circuit boards (the main board, same board as the Model IE-SW-BL05, and a communication board). The subject models utilize the components and connections against arc/spark by "ec" protection method.

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 covered in this certificate 1) and 3) to the scope of EN 60079-28:2015.

Model Differences

	IE-SW-BL08(X)-7TX-1SC
Ethernet RJ45	Seven provided
Fiber (S.M.)	N/A
Fiber (M.M.)	One provided

	IE-SW-BL08(X)-8TX	IE-SW-BL08(X)-6TX-2SC	IE-SW-BL08(X)-6TX-2ST	IE-SW-BL08(X)-6TX-2SCS
Ethernet RJ45	Eight provided	Six provided	Six provided	Six provided
Fiber (M.M, ST)	N/A	N/A	Two provided	N/A
Fiber (M.M, SC)	N/A	Two provided	N/A	N/A
Fiber (S.M, SC)	N/A	N/A	N/A	Two provided

	IE-SW-BL05(X)-5TX	IE-SW-BL05(X)-4TX-1SC	IE-SW-BL05(X)-4TX-1ST	IE-SW-BL05(X)-4TX-1SCS
Ethernet RJ45	Five provided	Four provided	Four provided	Four provided
Fiber (M.M, ST)	N/A	N/A	One provided	N/A
Fiber (M.M, SC)	N/A	One provided	N/A	N/A
Fiber (S.M, SC)	N/A	N/A	N/A	One provided

where (X) can be T or a blank. The T designates the ambient range of -40 °C to +75 °C. Blank represents the ambient range of -10 °C to +60 °C.

Note: S.M. - Single mode fiber
M.M. - Multi mode fiber
SC – SC fiber connector
ST – ST fiber connector

Temperature range:

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

Series		Ambient temperature range	Temperature class
IE-SW-BL08(X)-7TX-1SC, IE-SW-BL08(X)-8TX, IE-SW-BL08(X)-6TX-2SC, IE-SW-BL08(X)-6TX-2ST, IE-SW-BL08(X)-6TX-2SCS, IE-SW-BL05(X)-5TX, IE-SW-BL05(X)-4TX-1SC, IE-SW-BL05(X)-4TX-1ST and IE-SW-BL05(X)-4TX-1SCS	(X) is T	-40 °C to +75 °C	T4
	(X) is blank	-10 °C to +60 °C	T4

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Electrical data

Model Nos.	Rated Supply Voltage and Current
IE-SW-BL05-5TX, IE-SW-BL05T-5TX, IE-SW-BL05-4TX-1SCS, IE-SW-BL05T-4TX-1SCS, IE-SW-BL05-4TX-1ST, IE-SW-BL05T-4TX-1ST, IE-SW-BL05-4TX-1SC , IE-SW-BL05T-4TX-1SC	Construction A: 12/24/48 Vdc, Max. 0.29 A, Class 2, or 18-30 Vac, 50/60 Hz, Max. 0.29 A, Class 2 Construction B: 12/24/48 Vdc, Max. 0.29 A, Class 2
IE-SW-BL08(X)-8TX, IE-SW-BL08(X)-7TX-1SC, IE-SW-BL08(X)-6TX-2SC, IE-SW-BL08(X)-6TX-2ST, IE-SW-BL08(X)-6TX-2SCS	12/24/48 VDC, 0.3/0.15/0.08A, Class 2 or 12-48 VDC, 0.3-0.08A, Class 2 or 12 VDC, 0.3A, Class 2 or 24 VDC, 0.15A, Class 2 or 48 VDC, 0.08A, Class 2 or 12-48 VDC, 0.3A max., Class 2

Routine tests:

No routine tests were considered necessary.

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Descriptive Documents:

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

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Specific condition(s) of use:

Model IE-SW-BL05(T) Series:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN/IEC 60664-1.
- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN/IEC 60079-0 and accessible only with use of a tool.

Model IE-SW-BL08(T) Series:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN IEC 60664-1.
- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN/IEC 60079-0 and accessible only with use of a tool.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The trademark
label.

Weidmüller 

will be used as the company identifier on the marking