



[1] **UNITED KINGDOM CONFORMITY ASSESSMENT**
TYPE EXAMINATION CERTIFICATE

[2] **Product or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended)

[3] UK-Type Examination Certificate No.: **UL24UKEX2973X Rev. 2**

[4] Product: **Industrial Ethernet Switch, Model Series IE-SW-BLB**

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

[6] Address: **Klingenbergrasse 26, 32758 Detmold Germany**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International (UK) Ltd 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 Schedule 1 of the Regulations. The examination and test results are recorded in the confidential report **US/UL/ExTR24.0002/03**.

[9] 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

EN IEC 60079-0:2018/A11:2024

EN 60079-7:2015/A11:2024

EN 60079-7:2015

EN IEC 60079-15:2019

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[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. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

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

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

Certification Officer
Andrew Moffat

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 UKEx 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: 2024-06-28

Re-issued: 2026-02-25

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Schedule

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[15] Description of Product
 Industrial Ethernet Switch Model IE-SW-BLB Series have LAN ports and SFP slots with different amount and combination. These devices are evaluated as open-type devices, microcomputer based and communicate via interfaces through wire. They are intended for installation into a tool-accessible only ultimate enclosure and can be installed by DIN-Rail vertical mounting.

Models covered:

- IE-SW-BLB-10-8GT-2GESFP;
- IE-SW-BLB-05-5GT and IE-SW-BLB-05-5GT-C;
- IE-SW-BLB-05-5TX and IE-SW-BLB-05-4TX-1FESFP;
- IE-SW-BLB-05-4GT-1GESFP
- IE-SW-BLB-08-6TX-2FESFP, IE-SW-BLB-08-7TX-1FESFP and IE-SW-BLB-08-8TX;
- IE-SW-BLB-08-8GT, IE-SW-BLB-08-8GT-C
- IE-SW-BLB-16-16TX, IE-SW-BLB-18-16TX-2GESFP and IE-SW-BLB-24-24TX.
- IE-SW-BLB-16-16GT, IE-SW-BLB-16-16GT-C and IE-SW-BLB-16-14GT-2GESFP;
- IE-SW-BLB-05-1TX-4POE;
- IE-SW-BLB-05-1GT-4GTPOE;
- IE-SW-BLB-08-8POE;
- IE-SW-BLB-08-8GTPOE.

Nomenclature:

IE-SW-BLB	-	05	-	4	TX	-	1	FESFP	-	C
I		II		III	IV		V	VI		VII

I- Basic type designation:

IE-SW-BLB: Type designation

II- Total IO port number:

May be 05, 08, 10, 16, 18 or 24.

III- Number of LAN port.

IV. LAN port type:

- Blank: No LAN port provided.
- GT: 10/100/1000Base-T(X) LAN port.
- TX: 10/100Base-T(X) LAN port.

V- Number of SFP and PoE ports.

VI- SFP and PoE connector type:

- Blank: No SFP and PoE connector provided.
- GESFP: 100/1000Base-X SFP Connector (For Models IE-SW-BLB-18-16TX-2GESFP, IE-SW-BLB-10-8GT-2GESFP, IE-SW-BLB-16-14GT-2GESFP, IE-SW-BLB-05-4GT-1GESFP only)
- FESFP: 100Base-X SFP Connector (For Models IE-SW-BLB-05-4TX-1FESFP, IE-SW-BLB-08-6TX- 2FESFP and IE-SW-BLB-08-7TX-1FESFP only)
- POE: 10/100Base-T(X) PoE port (For Models IE-SW-BLB-05-1TX-4POE and IE-SW-BLB-08-8POE only)
- GTPOE: 10/100/1000Base-T(X) PoE port (For Models IE-SW-BLB-05-1GT-4GTPOE and IE-SW-BLB-08-8GTPOE only)

VII- Conformal coating (For IE-SW-BLB-05-5GT, IE-SW-BLB-08-8GT, IE-SW-BLB-16-16GT Series only):

- C: Conformal Coating provided.
- Blank: No conformal coating provided.

Model Difference:

Models IE-SW-BLB-05-5GT and IE-SW-BLB-05-5GT-C are identical except conformal coating is provided on the PWB of Model IE-SW-BLB-05-5GT-C.

Models IE-SW-BLB-05-5TX and IE-SW-BLB-05-4TX-1FESFP are identical except for the amount of LAN ports and SFP slot does not provide on Model IE-SW-BLB-05-5TX, and the enclosure openings for output ports.

Models IE-SW-BLB-08-6TX-2FESFP, IE-SW-BLB-08-7TX-1FESFP and IE-SW-BLB-08-8TX are identical except for the amount of LAN ports and SFP slots, and the enclosure openings for output ports.

Model IE-SW-BLB-16-16TX and IE-SW-BLB-24-24TX utilized identical Main Board, but no I/O Board provided on Model IE-SW-BLB-16-16TX, also with smaller enclosure size.

Model IE-SW-BLB-18-16TX-2GESFP and IE-SW-BLB-24-24TX are identical except for the amount of LAN ports and SFP slots, and the enclosure openings for output ports.

Models IE-SW-BLB-08-8GT and IE-SW-BLB-08-8GT-C are identical except conformal coating is provided on the PWB of Model IE-SW-BLB-08-8GT-C.

Models IE-SW-BLB-16-16GT and IE-SW-BLB-16-16GT-C are identical except conformal coating is provided on the PWB of Model IE-SW-BLB-16-16GT-C.

Models IE-SW-BLB-16-16GT and IE-SW-BLB-16-14GT-2GESFP utilized identical Main Board except for the amount of LAN ports. Additional SFP Board provided on Model IE-SW-BLB-16-14GT-2GESFP, which has bigger enclosure size due to SFP ports.



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The optical radiation output of the product with respect to explosion protection, according to Schedule 1 clause 16 of the Regulation 2016 No. 1107 (as amended) is covered in this certificate based on Exception 1) and 3) to the scope of EN 60079-28:2015.

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

Electrical data

Model	Input Rating	Relay Output	Marking
IE-SW-BLB-10-8GT-2GESFP	Dual 12-48 Vdc or 24 Vac, Max. 7.06 W	N/A	⊕ II 3 G Ex ec IIC T4 Gc
IE-SW-BLB-05-5GT	Dual 12-48 Vdc or 24 Vac, Max. 2.5 W		
IE-SW-BLB-05-5GT-C			
IE-SW-BLB-05-5TX	Dual 12-48 Vdc or 24 Vac, Max. 1.1 W		
IE-SW-BLB-05-4TX-1FESFP	Dual 12-48 Vdc or 24 Vac, Max. 1.8 W		
IE-SW-BLB-08-6TX-2FESFP	Dual 12-48 Vdc or 24 Vac, Max. 3.1 W		
IE-SW-BLB-08-7TX-1FESFP	Dual 12-48 Vdc or 24 Vac, Max. 2.4 W		
IE-SW-BLB-08-8TX	Dual 12-48 Vdc or 24 Vac, Max. 1.8 W		
IE-SW-BLB-08-8GT	Dual 12-48 Vdc, 24 Vac, Max. 4 W		
IE-SW-BLB-08-8GT-C			
IE-SW-BLB-05-4GT-1GESFP	Dual 12-48 Vdc or 24 Vac, Max. 3 W		
IE-SW-BLB-05-1TX-4POE	Dual 12-57 Vdc, Max. 150 W		
IE-SW-BLB-05-1GT-4GTPOE	Dual 12-57 Vdc, Max. 150 W		
IE-SW-BLB-16-16TX	Dual 12-48 Vdc or 24 Vac, Max. 4.5 W	24VDC, 1A, Resistive	⊕ II 3 G Ex ec nC IIC T4 Gc
IE-SW-BLB-18-16TX-2GESFP	Dual 12-48 Vdc or 24 Vac, Max. 8.4 W		
IE-SW-BLB-24-24TX	Dual 12-48 Vdc or 24 Vac, Max. 6 W		
IE-SW-BLB-16-16GT	Dual 12-48 Vdc, 24 Vac, Max. 11.5W		
IE-SW-BLB-16-16GT-C,			
IE-SW-BLB-16-14GT-2GESFP	Dual 12-48 Vdc, 24 Vac, Max. 13W		
IE-SW-BLB-08-8POE	Dual 12-57 Vdc, Max. 150 W		
IE-SW-BLB-08-8GTPOE	Dual 12-57 Vdc, Max. 152 W		

Routine tests

N/A

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Test Report No. (associated with this certificate issue)

The test report no. is provided under item no. [8] on page 1 of this Type Examination Certificate.

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Specific conditions of use:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- The equipment shall be mounted on Din-rail in vertical position and installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with EN IEC 60079-0 and only accessible by use of a tool, see installation instructions before use.
- 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.
- The equipment shall keep minimum installation clearances as following to prevent from overheating:
 - Top and bottom: 51 mm (2.0 inch)
 - Side: 51 mm (2.0 inch)
 - Front: 64 mm (2.5 inch).
- The input terminal block shall be used with conductors of 12 – 24 AWG wire size (ISO Metric size 4 - 0.2 mm²). (Except for Models IE-SW-BLB-05-1TX-4POE, IE-SW-BLB-05-1GT-4GTPOE, IE-SW-BLB-08-8POE and IE-SW-BLB-08-8GTPOE)
- The input terminal block shall be used with conductors of 12-20AWG wire size (ISO Metric size 4-0.5 mm²). (For Models IE-SW-BLB-05-1TX-4POE, IE-SW-BLB-05-1GT-4GTPOE, IE-SW-BLB-08-8POE and IE-SW-BLB-08-8GTPOE only)

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Conditions of certification:

None

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[19] Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

Additional information

The trademark **Weidmüller**  will be used as the company identifier on the marking label.

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[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Model IE-SW-BLB-10-8GT-2GESFP - Installation Instruction	2978380000	01	2026-01
Models IE-SW-BLB-05-5GT, IE-SW-BLB-05-5GT-C - Installation Instruction	2978410000	01	2026-01
Models IE-SW-BLB-05-5TX, IE-SW-BLB-05-4TX-1FESFP - Installation Instruction	2978400000	01	2026-01
Models IE-SW-BLB-08-8TX, IE-SW-BLB-08-7TX-1FESFP, IE-SW-BLB-08-6TX-2FESFP - Installation Instruction	2978390000	01	2026-01
Models IE-SW-BLB-16-16TX, IE-SW-BLB-18-16TX-2GESFP, IE-SW-BLB-24-24TX - Installation Instruction	2978420000	01	2026-01
Models IE-SW-BLB-08-8GT, IE-SW-BLB-08-8GT-C - Installation Instruction	3098210000	02	2026-01
Models IE-SW-BLB-16-16GT, IE-SW-BLB-16-16GT-C, IE-SW-BLB-16-14GT-2GESFP - Installation Instruction	3024080000	02	2026-01
Models IE-SW-BLB-05-4GT-1GESFP - Installation Instruction	3024070000	02	2026-01
IE-SW-BLB-05-1TX-4POE - Installation Instruction	2908200000	00	2025-07
IE-SW-BLB-05-1GT-4GTPOE - Installation Instruction	2908210000	00	2025-07
IE-SW-BLB-08-8POE - Installation Instruction	2908220000	00	2025-07
IE-SW-BLB-08-8GTPOE - Installation Instruction	2908230000	00	2025-07
Model IE-SW-BLB-10-8GT-2GESFP – Marking Label	2978380000-Label	01	2026-10
Models IE-SW-BLB-05-5GT and IE-SW-BLB-05-5GT-C – Marking Label	2978410000-Label	01	2026-01
Models IE-SW-BLB-05-5TX and IE-SW-BLB-05-4TX-1FESFP – Marking Label	2978400000-Label	01	2026-01
Models IE-SW-BLB-08-6TX-2FESFP, IE-SW-BLB-08-7TX-1FESFP and IE-SW-BLB-08-8TX – Marking Label	2978390000-Label	01	2026-01
Models IE-SW-BLB-16-16TX, IE-SW-BLB-18-16TX-2GESFP and IE-SW-BLB-24-24TX – Marking Label	2978420000-Label	01	2026-01
Models IE-SW-BLB-08-8GT, IE-SW-BLB-08-8GT-C - Marking Label	3098210000-Label	02	2026-01
Models IE-SW-BLB-16-16GT, IE-SW-BLB-16-16GT-C, IE-SW-BLB-16-14GT-2GESFP - Marking Label	3024080000-Label	02	2026-01
Models IE-SW-BLB-05-4GT-1GESFP - Marking Label	3024070000-Label	02	2026-01
IE-SW-BLB-05-1TX-4POE - Marking Label	2908200000-Label	00	2025-07
IE-SW-BLB-05-1GT-4GTPOE - Marking Label	2908210000-Label	00	2025-07
IE-SW-BLB-08-8POE - Marking Label	2908220000-Label	00	2025-07
IE-SW-BLB-08-8GTPOE - Marking Label	2908230000-Label	00	2025-07