



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

25-0209554-PDA
24-Jun-2025
23-Jun-2030
Yokohama Engineering Services

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

WEIDMUELLER INTERFACE GMBH & CO. KG

located at

KLINGENBERGSTRASSE 26, , D-32758 DETMOLD, Germany

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Programmable Logic Controls, I/O Components and Communicatio...

Model: BasicLine Series B Unmanaged Switch Series
IE-SW-BLB-xx-xTX/GT[-x] (12 Variants)

Endorsements:

Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 23/Jun/2030 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Motohiro Tamura,Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Tier: 2 - PDA Issued

Product: Programmable Logic Controls, I/O Components and Communication Interfaces

Model: BasicLine Series B Unmanaged Switch Series
IE-SW-BLB-xx-xTX/GT[-x] (12 Variants)

Endorsements:

Intended Service:

I/O modules on AMS, ACC, ACCU and ABCU Classed vessels.

Description:

BasicLine Series B Unmanaged Switch Series are Unmanaged Industrial Switches.

Rating:

Power Supply: 12, 24, 48 V DC

Ambient Temperature: -25°C to +70°C

Degree of Protection: IP20

Service Restriction:

1. Unit Certification is not required for the original equipment manufacturer. However, unit certification in accordance with 4-9-9/Table 2 is required by the user to customize this equipment where this equipment is used for Category II or III services in 4-9-3/Table 1.
2. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Approval is for hardware only. Each particular application/installation is to be specifically approved in conjunction with the relevant system in which the units are being used.

Notes/Drawing/Documentation:

Dwg No. 2978380000_00_05-2024, IS IE-SW-BLB-10-8GT-2GESFP, Pages 4,
Dwg No. 2978390000_00_05-2024, IS IE-SW-BLB 6-8TX 0-2FESFP, Pages 4,
Dwg No. 2978400000_00_05-2024, IS IE-SW-BLB 4-5TX 0-1FESFP, Pages 4,
Dwg No. 2978410000_00_05-2024, IS IE-SW-BLB 05-5GT-X, Pages 4,
Dwg No. 2978420000_00_05-2024, IS IE-SW-BLB 16-24TX 0-2GESFP, Pages 4,
Dwg No. 3024070000_00_06-2024, IS IE-SW-BLB-05-4GT-1GESFP, Pages 3,
Dwg No. 3024080000_00_06-2024, IS IE-SW-BLB 16-14-16GT-X 0-2GESFP, Pages 3,
Dwg No. 3098210000_00_06-2024, IS IE-SW-BLB 08-8GT-X, Pages 3,
Dwg No. 1154, CSD-2024-08-01, Pages 2,
Dwg No. IE-SW-BLB-05-4GT-1GESFP MB V101 PCM VALUE 240523, Industrial Ethernet Switch, Pages 10,
Dwg No. IE-SW-BLB-05-5GT MB V101 PCM Value 240223, Industrial Ethernet Switch, Pages 10,
Dwg No. IE-SW-BLB-05-5TX MB V102 PCM VALUE 231221, Industrial Ethernet Switch, Pages 6,
Dwg No. IE-SW-BLB-08-8GT IO V101 240523, Industrial Ethernet Switch, Pages 4,
Dwg No. IE-SW-BLB-08-8GT MB V101 240523, Industrial Ethernet Switch, Pages 9,
Dwg No. IE-SW-BLB-08-8TX IO V102 PCM Value 231222, Industrial Ethernet Switch, Pages 4,
Dwg No. IE-SW-BLB-08-8TX MB V102 PCM Value 240514, Industrial Ethernet Switch, Pages 6,
Dwg No. IE-SW-BLB-10-8GT-2GESFP MB V101 PCM Value 240110, Industrial Ethernet Switch, Pages 11,
Dwg No. IE-SW-BLB-10-8GT-2GESFP PB V101 PCM Value 240110, Industrial Ethernet Switch, Pages 5,
Dwg No. IE-SW-BLB-16-14GT-2GESFP IO V101 PCM VALUE 240523, Industrial Ethernet Switch, Pages 5,
Dwg No. IE-SW-BLB-16-14GT-2GESFP MB V102 PCM VALUE 240523, Industrial Ethernet Switch, Pages 15,
Dwg No. IE-SW-BLB-16-16GT MB V102 PCM VALUE 240523, Industrial Ethernet Switch, Pages 15,
Dwg No. IE-SW-BLB-16-16GT PB V101 PCM VALUE 240523, Industrial Ethernet Switch, Pages 4,

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Tier: 2 - PDA Issued

Dwg No. IE-SW-BLB-18-16TX-2GESFP IO V101 PCM Value 240430, Industrial Ethernet Switch, Pages 5,
Dwg No. IE-SW-BLB-24-24TX IO V101 PCM Value 240430, Industrial Ethernet Switch, Pages 7,
Dwg No. IE-SW-BLB-24-24TX MB V101 PCM Value 240110, Industrial Ethernet Switch, Pages 13,
Dwg No. LAB24910E, LAB-EMC1, Pages 38, Rev.0, dated 25 June 2024, issued by Weidmüller Central Laboratory,
Dwg No. LAB24911E, LAB-EMC2, Pages 38, Rev.0, dated 25 June 2024, issued by Weidmüller Central Laboratory,
Dwg No. LAB24912E, LAB-EMC3, Pages 38, Rev.0, dated 25 June 2024, issued by Weidmüller Central Laboratory,
Dwg No. LAB25129E, LAB-EMC4, Pages 34, Rev.0, dated 16 October 2024, issued by Weidmüller Central Laboratory,
Dwg No. LAB25193E, LAB-EMC5, Pages 35, Rev.0, dated 16 October 2024, issued by Weidmüller Central Laboratory,
Dwg No. LAB25194E, LAB-EMC6, Pages 35, Rev.0, dated 7 November 2024, issued by Weidmüller Central Laboratory,
Dwg No. LAB25116E, LAB-ENV1, Pages 55, Rev.0, dated 1 October 2024, issued by Weidmüller Central Laboratory,
Dwg No. LAB25170E, LAB-ENV2, Pages 55, Rev.0, dated 13 November 2024, issued by Weidmüller Central Laboratory,
Dwg No. LPP 2023-08-21, LPP-Shipbuilding-V-Line UnmSwitches, Pages 27,
Dwg No. ---, Model_Description_Maritime_2024_12_10, Pages 10, dated 12 December 2024,

Terms of Validity:

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Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

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STANDARDS

ABS Rules:

2025 Marine Vessel Rules: 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-3/1.17, 4-8-3/13, 4-9-3/11, 4-9-9/13.1, 4-9-9/Table 1&Table 2

2025 Offshore Units Rules: 1B-1-4/9.7, 1B-1-A2, 1B-1-A3, 4-3-1/11, 4-3-1/15, 4-3-1/17, 4-3-4/5.

National:

NA

International:

IACS UR E10 Rev.8

Government:

NA

EUMED:

NA

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Tier: 2 - PDA Issued

OTHERS:

NA

Design Assessment (DA) Certificate Attachment for Component

DA Certificate No: 25-0209554-PDA
Issue Date: 24 June 2025
Expire Date: 23 June 2030
Company: WEIDMUELLER INTERFACE GMBH & CO. KG
Factory or Works: -
Product/Equipment: Programmable Logic Controls, I/O Components and Communication Interfaces
Model: BasicLine Series B Unmanaged Switch Series, IE-SW-BLB-xx-xTX/GT[-x] (12 Variants)
Revision: 0

Products:

Model Description	Order No.
IE-SW-BLB-05-5TX	2908030000
IE-SW-BLB-08-8TX	2908040000
IE-SW-BLB-16-16TX	2908050000
IE-SW-BLB-24-24TX	2908060000
IE-SW-BLB-08-8GT	2908080000
IE-SW-BLB-08-8GT-C	2908110000
IE-SW-BLB-05-4TX-1FESFP	2908140000
IE-SW-BLB-08-7TX-1FESFP	2908150000
IE-SW-BLB-08-6TX-2FESFP	2908160000
IE-SW-BLB-18-16TX-2GESFP	2908170000
IE-SW-BLB-05-4GT-1GESFP	2908180000
IE-SW-BLB-10-8GT-2GESFP	2908190000

Accessories:

Model Description	Order No.
IE-WALLMOUNT-KIT-MODEL-A	3032760000
IE-WALLMOUNT-KIT-MODEL-B	3032770000
IE-SFP-1GE-RJ45	2766120000
IE-SFP-1FE-MM-2	2682450000
IE-SFP-1FE-SM-30	2682460000
IE-SFP-1FE-SM-60	2682470000
IE-SFP-1GE-MM-05	2682480000
IE-SFP-1GE-MM-2	2682490000
IE-SFP-1GE-SM-10	2682500000
IE-SFP-1GE-SM-40	2682510000
IE-SFP-1GE-SM-10-BIDI-TX1310	2682520000
IE-SFP-1GE-SM-10-BIDI-TX1550	2682530000
IE-SFP-1GE-SM-20-BIDI-TX1310	2682540000
IE-SFP-1GE-SM-20-BIDI-TX1550	2682550000