

OVERVIEW

The explosion proof enclosure SWA series and SWS series are enclosures suitable for install inside radio module, electronic device suitable for data transmission in classified area Ex and / or terminal

READ THIS INSTRUCTION FIRST

To avoid serious or fatal personal injury or major property damage, read and follow all safety instruction in this manual. If you require additional assistance, please contact ACKSYS.

SAFETY INSTRUCTION TO HAZARDOUS AREA INSTALLATION


The SWA (SWS) Control Unit must be installed and maintenance according to suitable standards for electrical application in potentially explosive atmospheres (example: IEC/EN 60079-14, IEC/EN60079-17 or other national standards).

Read this first and keep this instruction manual always available.

Read the Annex to Installation & Operation Manual for detailed information related to electronic device installed inside the enclosure and limitation to use.

This instruction refers to certified equipment covered by the EXA 14 ATEX 0042 and by IECEx EXA 14.0001 certificate.

ATEX / IECEx CERTIFICATION INFORMATION

Atex identification:  **II 2G Ex db IIC T5-T4 Gb**
II 2D Ex tb IIIC T110°C/T140°C Db
I M2 Ex db I Mb (SWS series only)
IP66-68
 Atex certificate number **EXA 14 ATEX 0042**

IECEx identification: **Ex db IIC T5-T4 Gb**
Ex tb IIIC T110°C/T140°C Db
Ex db I Mb (SWS series only)
IP66-68
 IECEx certificate number **IECEx EXA 14.0001**

	Temperature Class for hazardous location due to presence of hazardous gas	Superficial temperature for hazardous location due to presence of hazardous powder
T5	-20°C ≤ T amb. ≤ +80°C	T110°C
T4	-20°C ≤ T amb. ≤ +105°C	T140°C

TECHNICAL DATA

Max Power Dissipation: 24W
 Max. Voltage: 125VDC or 250 VAC

NOTE

1. Suitably trained personnel shall carry out installation according with applicable code practice.
2. Cover must be tightening with a torque of at list 15 Nm.
3. To avoid the thread cover blocking the thread joint can be protect with grease like Nyogel 760G, Uniflor 8512R, Uniflor 8911 or equivalent compatible with silicon gasket
4. The user should not repair this equipment.
5. The user should not modify the enclosure and related components inside.
6. The HWA series should not painted from the user.
7. For ambient temperature below -10°C and above 70°C use field wiring suitable for both minimum and maximum ambient temperature.
8. The electrical devices must be grounded using their grounding connections.
9. The user should guarantee the keeping of the safety characteristic of the device after maintenance.
10. If the equipment is likely to come in to contact with aggressive substances, it is responsibility of the user to take suitable precautions that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised. Aggressive substances: example Acids, liquids, gases with can affected metals.
11. The metallic alloy used for the enclosure, in the event of a rare accident, could cause ignition sources due to impact or friction (sparks may occur). This shall be considered when the box is installed in group Ex area.
12. Remove plastic plugs or plastic stickers supplied with enclosure before installation, these components aren't certified. All cables entry devices and blanking elements shall be certified in the type of explosion protection flameproof type "d" and "tb" suitable of use in Ex area and correctly installed.
13. For functionality of device installed inside the enclosure refer to device instruction

⚠ WARNING!

Warns of hazard that MAY cause serious personal injury, death or major property damage.

HAZARDOUS VOLTAGE

Disconnect all power before servicing equipment.

DO NOT REMOVE COVER WHEN ENERGISED.

DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.

⚠ CAUTION!

The conduit plug supplied with the switch boxes are for transit purposes only.

IP66/68 protection depends on cable gland and cabling methods used.

Before the installation verify into the Annex to Installation & Operation manual the limitation to use and the accessories allowed.

NOMENCLATURE

x	WA	xxx	xx	-	xx	x	xx	-	xxxxx
1	2	3	4		5	6	7		8

1 – Family

2 – Housing

3 – Device code

(000 for no device)

4 – Antenna coupler

(00 for no antenna coupler)

5 – Cable entries

6 – Colour

7 – Marking

8 – Special execution

(if present)

PRODUCT'S STORAGE

Keep the boxes away from atmospheric agents in an environment with temperature between 0°C and 40°C.

INSTALLATION

Attach the enclosure to a fix surface using four M6 bolts
The unit can be installed in all position

ELECTRICAL WIRING

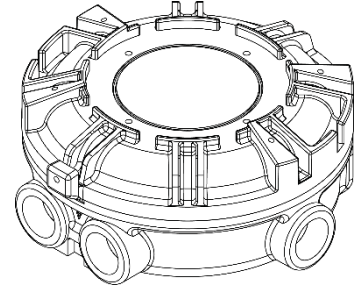
Remove screw cover, remove protection plugs from cable entries and substitute them with cable glands or conduits or plugs suitable for type of protection required.

Connect terminal strip according to the wiring diagram present into the Annex to Installation & Operation Manual.

Reassemble screw cover and lock it by means of the screw or anti rotation kit.

WARNING: Before closing the enclosure check that thread joint were free of foreign matters and deformations check seal is properly fitted in slot.

The cover must be screwed and securely locked to the body.



M6 bolts

MAINTENANCE

The verification and maintenance of the electrical equipment must be performed according to IEC/EN 60079-17.

The cover must be securely locked to the body.

After every opening must to check before closing that he thread joint is free of foreign matters and deformations and if necessary lubricate the thread joint in order to avoid cover blocking with grease like Nyogel 760G, Uniflor 8512R, Uniflor 8911 compatible with silicon gasket or equivalent according to enclosure temperature range.

In order to guarantee the protection degree IP66-68 it's necessary that the gasket is maintained in good conditions and must be verified after every opening that the same does not show breakage or cuttings. In case of damage replace with ACKSYS spare part.

The maintenance related the components used for wiring must be performed according to manufacturer instruction.

DISPOSAL / RECYCLING

Disposal and recycling of the product according to national regulation for waste disposal and recycling.

WARNING: Do not dispose the product and the components in the environment.