

Safety, installation, use and maintenance instructions

Warning: this document is an integral part of the 825B097_ manual and must be read and understood in conjunction with it.

Capacitive level switch European directive: 2014/34/UE

ATEX standard references: EN60079-0:2012+A11:2013; EN60079-11:2012; EN60079-31:2014

Model : CLS_

ATEX Group: II 1/2D

Protection mode: ia/tb

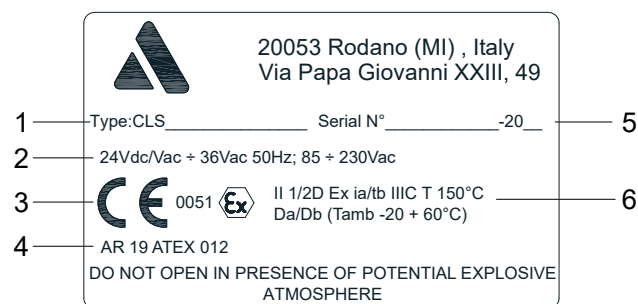
Ambient temperature: -20 ÷ +60°C Protection degree: IP66

Max process temperature: +150°C

Power supply: 24Vdc/Vac ÷ 36Vac 50Hz; 85 ÷ 230Vac

Output relay SPDT: 5A250Vac

1 - CERTIFIED ATEX VERSION IDENTIFICATION



1. Product code
2. Supply voltage

3. Notified body identification code
4. Certificate number

5. Serial Number
6. Marking

Note: the nameplate does not show intrinsic safety parameters because external connections ARE NOT subjected to intrinsic safety.

2 - SAFETY INSTRUCTIONS

This capacitive level switch is designed to be installed in potentially explosive atmosphere for the combustible dust presence. Make sure that the device marking is in compliance with the area classification; do not install the device in the explosive gases presence (0, 1 or 2 zone).

Verify that the probe installation does not affect the degree of protection.

Device improper use may cause damage to people, the product and connected equipments.

Always observe the nameplate data for the power supply and the electrical connections.

3 - INSTALLATION AND COMMISSIONING

The installation must be performed only by qualified and properly trained personnel in accordance with current regulations (Rif. EN 60079-14). The equipment must be used only after having correctly understood the instructions in this document, together with the 825B097_ user manual.

The device must be installed so as to avoid the risk of shock to the housing and to the sensitive part.

All the electrical connections must be realized with non-active conductors; be sure that, during wiring operations, the potentially explosive atmosphere is not present.

Use only the threaded connection (wrench 50) to insert the probe into the process connection; do not use the housing to manually screw the sensor into the process connection.

Tighten the cable glands (torque 4,5 Nm) and the cover, just before commissioning.

When necessary, replace the cable entries with other similar devices, make sure that the marking is in suitable for the installation area (2D) and the minimum dustproof degree (IP6X).

The housing is provided with a breathing valve: make sure that during the installation, the breathing function is not avoided. For the electrical connections and instrument settings, please refer to 825B097_ user manual.

4 - MAINTENANCE

Check and maintenance should be performed only by properly trained personnel, in accordance with the European standard EN 60079-17.

If it were necessary to open the cover when the probe is energized, be sure to remove all dust from the housing and prevent the accumulation of dust inside the housing during maintenance.

Any unauthorized modification of the probe, raises SGM LEKTRA from all liability and will avoid its warranty.

5 - ATEX ZONE IDENTIFICATION

