

5. Installation and set up

The sensor must be installed, connected and activated only by specialized personnel. Sach personnel must be familiar with the types of protection anti-ignition, the production rules and regulations in the potentially explosive area. The user is solely responsible for the choice and the use of the sensor suitable to the final application. Check whether the classification of the sensor is suitable for the application (see "Marking" to paragraph 4 and mark on the equipment).

6. Installation remark A

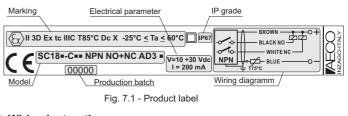
When installing the sensor observe the following requirements:

- · Adhere to the relevant national regulations and provisions, as well as their respective provisions of the AECO srl;
- In order to avoid elettrostatic charging on the plastic parts and cable, clean the sensor with a wet cloth only;
- Always connect to earth the cable shield of the sensor;

- · Protect, efficiently, the sensor cable against damage by meeting the requirements of the standard EN 60079-14;
- · Avoid exposing the plastic parts, of the sensor, to the direct radiation with UV components (sunlight);
- Do not mount the unit in the dust flow;
- Avoid dust deposits on the sensor and its cable;
- Protect the sensitive part of the sensor against impact;
- For the wiring diagramm and the electrical technical data please see the sensor mark and/or the techinical data sheet. See also par. 8;
- The maximum ambient temperature permitted in the installation site must be in the range: -25° ÷ +60°C

7. Labelling

On each sensor is applied a product label as shown in fig.7.1:



8. Wiring instructions

The figures 8.1 and 8.2 show the wiring diagrams for each group of models of the series.

BROWN - 0+	BROWN + O+ BLACK BLACK WHITE

Fig. 8.1-Mod.SC18=-C==PNP NO+NC AD3= Fig. 8.2-Mod.SC18=-C==NPN NO+NC AD3=

9. Instruction for sensing adjunstement

Perform sensitivity adjustment with the sensor installed in its final installation position after covering approximately 70% of its sensitive part with the material to be detected. Then power on the sensor and make the following adjustments:

- If the LED is on, turn the trimmer P1 counterclockwise until it is turned off.
 - Then turn P1 clockwise until the LED turns on again.
- If the LED is off, turn the P1 trimmer clockwise until it is switched on.

Start the system and verify the correct activation of the sensor. If necessary, make small calibration adjustments until the desired adjustment is made. Warning!

In the case in which the sensor is stayed in a metal seat, the latter will be connected to the ground.

Sensitivity adjustment Fig. 9.1 - Sensitivity adjustment

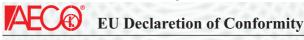
10. Maintance and Repair

The sensor does not need maintenance and should not be modified. In case of fault do not try to repair it, but contact the customer care of AECO srl.

If necessary can be requested at AECO srl or downloaded from the website www.aecosensors.com the following documents:

- Sensor Data Sheet:
- EU Declaration of Conformity;

11. EU Declaration of Conformity



We AECO s.r.l.

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declare under our sole responsability that the products

Product's name:	Capacitive sensors	
Models:	SC18 - C III NO+NC AD3	
ATEX Marking:	Ex II 3D Ex te IIIC T85°C De X	-25°C≤ Ta ≤+60°C

to which this declaration relates, meet the requirements of the european directives

2014/34/EU - ATEX Directive

2014/30/EU - Electromagnetic compatibility dicrective

and are comply with the following armonized standards

EN60079-0 : 2012+A11 : 2013 EN 61000-6-2 : 2005 EN 60947-5-2 : 2007 EN 60079-31 : 2014 EN 61000-6-4 : 2007

Inzago: 2016.04.20

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