



CE

Operating instructions

(Ex protection related part) for inductive sensors
according to EU directive 2014/34/EC Annex VIII (ATEX)
group II, equipment category 3D

UK

ecomat200[®]

DI1xxA
DI5xxA

Operating instructions (safety-related part ATEX)

Remarks for safe use in hazardous areas

Functions and features

- Use in hazardous areas according to the classification **II 3D** (group II, category 3D, apparatus for dust atmosphere). The requirements of the standards EN60079-0 and EN60079-31 are met.
- Marking (see unit or technical data sheet)

 **II 3D Ex tc IIIC T80°C Dc X**

- Permissible operating temperature of the application (proper usage):

Ta: -20°C...+60°C

Installation / set-up

The units must only be installed, connected and set up by qualified staff. The qualified staff must have knowledge of protection classes, regulations and provisions for apparatus in hazardous areas.

Check whether the classification (see "Marking" above and marking on the unit) is suitable for the application.

Installation remarks / installation

- Adhere to the respective national regulations and provisions as well as the relevant installation regulations.
- Avoid electrostatic charging on plastic units and cables.
- To avoid electrostatic charging clean the unit with a damp cloth only. Rubbing with non-conductive materials must be strictly avoided.
- To avoid electrostatic charging steps must be taken to ensure the equalisation of potential of metal parts (plug housing, fixing elements, protective housing, etc.).
- Do not mount the unit in the dust flow.
- Avoid dust deposits on the units.
- Protect the units and the cables efficiently against damage.

- For the connections and the electrical characteristics please see the unit marking or the technical data sheet.
- Avoid direct radiation with high UV components (sunlight). Mount the unit in a protected place.
- Avoid soiling of the connector area.
- M12 plugs may only be opened or closed in a sufficiently clean environment

Special conditions for safe operation

- The units were tested in accordance with table 8 of EN 60079-0 for group II and for a low mechanical risk with an impact energy of 4 joules.
- Use sockets which are suited for hazardous areas, e.g. ifm sockets EVC**A with Ex certificate (certificate number BVS 08 ATEX E 109 U).
- Secure the sockets by tightening the hexagon coupling nut sufficiently according to the requirements of the Ex protection related operating instructions of the socket.
- Do not separate the connector when energized.
- For cable units ensure a sufficient strain relief or lay the cable securely.
- Only use the operating elements of the units in a dry environment.
- Where units require an additional fuse, this must be located outside the hazardous areas.

Maintenance / repair

The unit must not be modified nor can it be repaired. In case of a fault please contact the manufacturer.

If required, the technical data sheets and EC declarations of conformity can be obtained from the manufacturer. Indicate the article number.