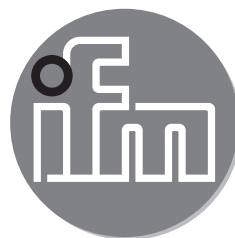




ifm electronic



Operating instructions
Sockets for the connection of intrinsically safe circuits

E10A**

UK

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 1G (group II, category 1G, apparatus for gas atmosphere).
The requirements of the standards EN 60079-0, EN 60079-11, EN 60079-26 are met.
- Use in hazardous areas according to the classification
II 1D (group II, category 1D, apparatus for dust atmosphere).
The requirements of the standards EN 60079-0 and EN 61241-11 are met.
EC type test certificate

BVS 05 ATEX E106

- Marking

 II 1G Ex ia IIC T6 Ga Ta: -20°C ... +80°C

 II 1D Ex ia IIIB T85°C Da Ta: -20°C ... +80°C
alternatively

 II 1D Ex ia IIIC T85°C Da
Ta according to table "Total power of the current circuits"

Installation / Set-up

The sockets 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 socket) is suitable for the application.

- Connection only to intrinsically safe certified circuits.
Several intrinsically safe circuits may be connected to the sockets. The sum of the voltages of one or more intrinsically safe circuits must not exceed the following value:

$U_{\text{total}} \text{ max} = 60 \text{ V (peak value)}$

For material group IIIC

Total power of the current circuits:

Max. ambient temperature [°C]	40	70	80
Admissible power [mW]	750	650	550

Installation remarks / Installation

- Adhere to the relevant national regulations and provisions.
- Avoid electrostatic charging on plastic units and cables.
- Protect the sockets efficiently against damage.
- The connected cables must be firmly laid and protected efficiently against damage (reduced strain relief according to EN 60079-0 A2.3.2)
- The sockets are not suitable for installation in walls which separate zone 0 from zone 1.
- The relevant installation regulations (e.g. EN 60079-14) must be adhered to.
- The following cable diameters may be connected to the respective sockets:

UK

Order no.	Permissible external cable diameter
E1001A	10 ... 12 mm
E1002A	6 ... 8 mm
E1003A	6 ... 8 mm
E1004A	6 ... 8 mm

Special conditions for safe operation

- The sockets are only suited for the connection of intrinsically safe circuits.

Maintenance / Repair

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

If needed, you can obtain data sheets or EC type test certificates from the manufacturer (see cover sheet / back).