



Operating instructions
(Ex protection related part)

M12 connector

ENCxxA

GB

1 Safety instructions



Remarks for safe use in hazardous areas.

- The product must only be installed, connected and set up by qualified staff. The qualified staff must have knowledge of types of protection, regulations and provisions for apparatus in hazardous areas.
- The classification and marking of the product must be suitable for the application.
- Adhere to the respective national regulations and provisions as well as the relevant installation regulations.
- Observe applicable documents.

2 Intended use

Use in hazardous areas according to the classification:

ATEX classification	Marking	Permissible ambient temperature
 II 1G	Ex ia IIB T6 Ga	-25...75 °C
 II 2G	Ex ia IIC T6 Gb	-25...75 °C
 II 1D	Ex ia IIIB T ₂₀₀ 85°C Da	-25...75 °C
 II 1D	Ex ia IIIC T ₂₀₀ 70°C Da	-20...60 °C
 II 1G	Ex ia IIB T5 Ga	-25...85 °C
 II 2G	Ex ia IIC T5 Gb	-25...85 °C
 II 1D	Ex ia IIIB T ₂₀₀ 95°C Da	-25...85 °C

Type examination certificate:

- EU: BVS 11 ATEX E009 X
- IEC: IECEx BVS 11.0002 X

The requirements of the following standards are met:

- EN IEC 60079-0:2018, EN 60079-11:2012
- IEC 60079-0:2017, IEC 60079-11:2011

Connection only to intrinsically safe circuits which are approved with the type examination certificate and do not exceed the following maximum values:

Ui	30 V DC
Ii	1 A
Pi group II	1 W
Pi group III	1 W

Maximum effective internal inductance (Li) and capacitance (Ci):

Li = 2 µH/m, Ci = 0.1 nF/m

3 Installation

- Protect the product from destruction.

- ▶ Avoid electrostatic charging on the product.
- ▶ If two intrinsically safe circuits are connected, the differential voltage must not exceed 30V.
- ▶ Connect open cable ends in a junction box with the min. protection rating IP 20 or outside the hazardous area.

3.1 Special conditions for safe operation

- If the connector is used in areas requiring category 1G, 1D or 2G devices, set up the connector and the connected cable so as to exclude intensive electrostatic charging.
- If several intrinsically safe circuits are connected to the socket, the cable must be laid effectively protected against any damage.
- Due to space limitations, not all markings may be on the product. You can find the complete marking in the operating instructions.

Especially for IIIC:

- Operation of the connectors without a matching M12 counterpart is not permitted. The M12 counterpart must meet the IP requirements to IEC 60079-11.
- When the connector is opened, the ingress of dust must be avoided.
- The connectors must be protected from UV radiation.
- The lock nut must be tightened with a tightening torque of 1.2...1.5 Nm.

4 Maintenance, repair and disposal

No modifications or repairs may be made to the product.

- ▶ In case of a fault please contact the manufacturer.
- ▶ If required, request data sheets or type examination certificates / certificates from the manufacturer (→ cover sheet / back).