

GROUNDING CONTROL DEVICE EKX-FIBC

MONITORED GROUNDING WITH OBJECT DETECTION FOR BIG BAGS

DO YOU FILL OR EMPTY BIG BAGS? Then you should remember that many dusts in conjunction with air have a **high risk of explosion**. **Flours, sugars or aluminum dusts** are well known as an explosion hazard. But even the dust of products such as **fertilizers, rubber, tobacco, spices** and **many other substances** can cause explosions. Therefore, when processing such products, conductive big bags must be used. Grounding is required for these types of big bags to prevent ignition due to **electrostatic charges**.

FUNCTIONAL PRINCIPLE

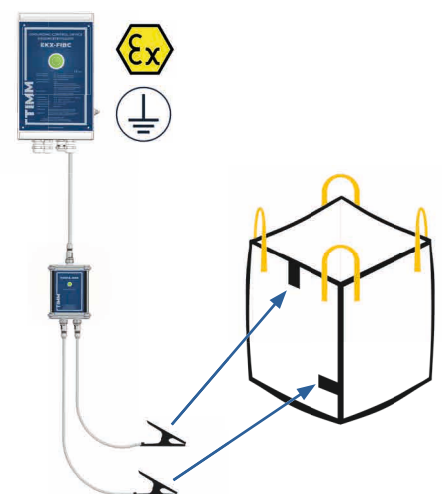
The Grounding Control Device EKX-FIBC provides and **monitors a safe grounding connection** between the big bag and the designated ground point via **two active clamps**. The **digital measuring technology** prevents misuse or bypassing of the device by means of **automatic object recognition**. A filling release via the **electronic control outputs** and the highly visible LED indicator is only given if the connected big bag is properly recognized and safely grounded via both clamps. In case of an interruption of the ground connection, the control outputs lock and the **optical LED indicator** changes from green to red.

HANDLING

The EKX-FIBC can be used in gas and dust explosive atmospheres up to **Zone 1/21**. The main unit can be mounted at a distance of **up to 20 m** to the workplace. The **cable quick couplings** at the optional external measuring module and the **plain text diagnostic display** in the main unit allow **easy initial installation, handling and maintenance**.

PRODUCT BENEFITS

- For all FIBC Type C according to **IEC 61340-4-4** ($10^7 \Omega$ and $10^8 \Omega$)
- **Tamper-proof** through digital measurement technology and **reliable object detection** (5-check-principle)
- Simultaneous monitoring of **two big bags** is possible
- Relay and NAMUR **control outputs**
- **Autodiagnosis system** for permanent self-monitoring of all safety-related functions
- **Easy handling** thanks to cable quick couplings and the integrated plain text OLED display
- Mounting the main unit at a distance of **up to 20 m** from the workplace is possible





TECHNICAL SPECIFICATIONS

Type of protection:

according to ATEX 2014/34/EU:

⊕ II 2 G – Ex eb ib q IIB T4 Gb

⊕ II 2 D – Ex ib tb IIIC T80°C Db

Power supply:

230 V AC ± 10 %, 50-60 Hz, approx. 10 VA

Control outputs:

2 potential-free closing contacts

1 change-over contact | 2 NAMUR-outputs

Operating temperature: - 30 °C up to + 60 °C

Certificate: ATEX, IECEx

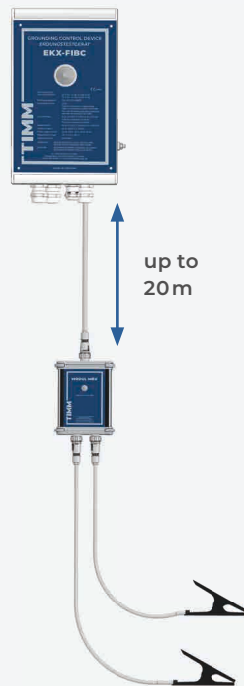
VARIANTS

INTEGRATED MEASURING ELECTRONIC



Monitoring of 1 big bag

ONE EXTERNAL MEASURING MODULE



Monitoring of 1 big bag with remote LED indicator

TWO EXTERNAL MEASURING MODULES



Simultaneous monitoring of 2 big bags

For further information and additional accessories, visit us at www.timm-technology.de/en/products/ekx-fibc or contact us.

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