MAES SAFETY
PRODUCTS & SERVICES

TIMM
TRUSTED TECHNOLOGY

GROUNDING CONTROL DEVICE EKX-4 (2-POLE)
SPECIALIZED VERSION FOR CONTAINERS, IBCS AND BARRELS

The danger of **electrostatic charges** must always be observed when loading, unloading or handling **bulk solids** or **inflammable liquids** in the **petrochemical, chemical, gas, as well as in the food and feed industry**. For application with **containers, IBCs, barrels** or **trays**, the EKX-4 (2-pole) is the Grounding Control Device to choose.

FUNCTIONAL PRINCIPLE

EKX-4 (2-pole) ensures that **static electricity is safely discharged** to the ground. It continuously **monitors** the electrical resistance of the grounding connection including the connection points at the grounding clamp. Only if the connected object is **detected** and **grounded properly**, the filling release will be signaled by green LEDs and the control outputs will switch. If there are any breaks in the grounding connection, the LEDs change to red and the filling will be interrupted immediately.

APPLICATION AREAS

EKX-4 (2-pole) is mounted **stationary**, close to the loading/unloading gantry. It is used in gas and dust hazardous areas of **zone 1 and 21** for objects to be grounded, that cannot be detected by the standard 1-pole Grounding Control Device EKX-4 such as containers, IBCs or barrels. Further areas of application are the grounding of materials handled with trays on conveyors in automated industrial processes.

PRODUCT BENEFITS

- **Controlled low resistance** grounding connection especially for containers, IBCs and barrels
- Automatic diagnosis system **continuously self-monitors** all safety-related functions
- Possibility to **connect longer cables** (up to 50 m)
- **NAMUR-compatible** Ex i control output
- **Opening the housing** under voltage is permissible - thanks to intelligent explosion protection (IEPC)

IEPC
Intelligent
Explosion
Protection
Concept

HIGHEST LEVEL OF SAFETY
in hazardous areas

LEADING TECHNOLOGY
in monitoring, diagnostics, and configuration

EASY TO OPERATE
by ability to open housing in hazardous areas

2-POLE

TECHNICAL SPECIFICATIONS

Type of protection:
according to ATEX 2014/34/EU:
Ⓔx II 2 G – Ex eb q [ib] IIC T4 Gb
Ⓔx II 2 D – Ex t [ibD] IIIC T80°C Db IP65

Power supply:
230 V AC ± 10 %, 50 Hz, approx. 10 VA

Control outputs:
2 potential-free closing contacts
1 change-over contact | 1 NAMUR-output

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

Approvals: ATEX, EAC Ex, CQST, SIL 2

ACCESSORIES*

CABLES WITH 2-POLE CLAMP

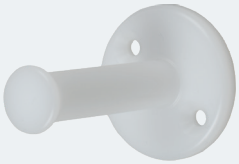
Coiled grounding cable
up to 15 m

Straight grounding cable
up to 50 m

Cable reel
up to 10 m

OTHER ACCESSORIES

Testing equipment



Clamp hanger

Rubber insulating sheath

* For further information an additional accessories visit our website or contact us in person.

H. TIMM ELEKTRONIK GmbH
Humboldtstr. 29
21509 Glinde
Germany
Tel. +49 40 248 35 63 - 0
info@timm-technology.de
www.timm-technology.de

MAES SAFETY PRODUCTS & SERVICES B.V.
Spoorstraat 2a,
5975 RK Sevenum
Netherlands
Tel. +31 (0) 77-8795134
info@msps.nl
www.msps.nl