

# 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, pharmaceutical, as well as in the food and feed industry**. For application with **containers, IBCs, barrels** or **trays**, that may be insulated from ground potential, 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)



**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:

⚡ II 2 G – Ex eb q [ib] IIC T4 Gb

⚡ II 2 D – Ex tb [ib] IIIC T80°C Db

### Power supply:

230 V AC  $\pm 10\%$ , 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 and additional accessories, visit us at [www.timm-technology.com](http://www.timm-technology.com) or contact us in person.



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