



SILO SWITCHES MS1 and MS2

The Silo switch is designed for the surface level control of loose storage items (high level detection).

Operation and Installation

At the end of a cable hangs a cone containing a micro switch which operates when the cone is tilted some 25° in any direction from its normal vertical position. The unit must be installed a minimum of 250 mm from the silo wall and a minimum of 300 mm from the centre opening. 40 mm of cable is required from the end of the protective conduit to the cone. The same requirements hold true for the side mounted switch. When the silo is filled to the predetermined capacity the switch is activated by the rising level of the item being stored.

Examples of Density differences causing different degrees of tilt in different items: • gravel about 55° • barley about 40° • oats about 38° • oats about 38° • oats about 38° • oats about 38°

Technical Information: Voltage Current Weight Operating temperature Cable dimensions Cone material Cable Insulation Protection class

269.05

250 VAC 1A AC1 130 g 0°C - +50 °C 2x1 mm2, 2 m PP rubber IP 66/67

Type MS1 Free floating Type MS1 Tilted Type MS2 Free floating Type MS2 Tilted switch open

- switch closed
- switch closed
 switch open

CE 0537 (Ex II 1 D



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EC-DECLARATION OF CONFORMITY

Name of manufacturer: Kari-Finn Oy

Contact information of the manufacturer

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Product: Silo switch types MS-1, MS2 and MS-3 II 1 D Ex tD A20 IP66/67 T 60 °C

We affirm that this product fulfils the requirements of ATEX-directive 94/9/EC. The construction of the product is in accordance with the following harmonised standards: EN 61241-0 (2006) and EN 61241-1 (2004). The conformity to mentioned standards of each manufactured unit is ensured according our quality control instructions. The product is CE-marked 2005.

EC-TYPE EXAMINATION CERTIFICATE NO:

VTT 09 ATEX 019X.

PRODUCTION QUALITY ASSURANCE NOTIFICATION NO:

VTT 05 ATEX Q 002

Notified body:

0537 VTT Industrial Systems Electrical Ex-apparatus Otakaari 7B, Espoo FIN-02044 VTT

Lahti 17.6.2009

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Matti Kari Managing director