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### SAFETY MONITORING A BUCKET ELEVATOR



Belt misalignment monitoring Bearing temperature monitoring Speed monitoring Transmitters & converters Explosion vent panels & flameless vents

### **SCHEMATIC OVERVIEW** MONITORING OF AN INDOOR **ELEVATOR**

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#### Preventive measures

Prevention is a better cure. Taking preventive measures is therefore the primary concern. These measures focus on preventing the possibility of creating an explosive hazardous situation by eliminating as many of the elements as possible. The risk involving a potentially hazardous mixture of powder and air, which could cause a dust explosion can be reduced by taking the following precautions:

- Mechanical conditioning
- of the whole installation
- Earthing the installations
- Good cleaning of the factory
- The removal of foreign objects in the installation
- Dustproof construction of equipment
- The installation of (ATEX) explosion safety systems

#### **Curative measures**

- If all preventive measures have been taken and there is still an explosion risk, curative measures must be taken. These are aimed at providing protection from the consequences of an explosion. Examples are shown hereafter:
- Explosion-proof construction
- Explosion pressure relief
- Compartmentalisation
- Explosion suppression







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