

Overspeed Monitoring System OS-22

New 2009

Presentation :

The **OS-22** sensor is an autonomous safety and redundant equipment able to pilot the emergency stop of cable lifting devices in case of anomalies that are in many cases the source of serious personal injuries and material damages.

The **OS-22** sensor, using adapted relays, is able to directly act on the emergency stop breaks in case of serious fault (overspeed), or on the automatism in case of dysfunction that does not need an immediate reaction.

The **OS-22** sensor, besides, ensures the visualization of the hoist status, the history file of the detected fault events, as well as the monitoring of the load stop conditions (stop time and distance, speed profile).

Operation principle :

The motor and drum encoders pulses (existing or added) are interpreted in real time using both **OS-22** sensor microprocessors

OS-22, a simple and efficient tool, designed by lifting operation professionals, transmutes all the dysfunctions and anomalies using contacts relays which can command the emergency breaks or display alarms.

Performances :

Redundant Overspeed Monitoring (SV1 and SV2 faults)

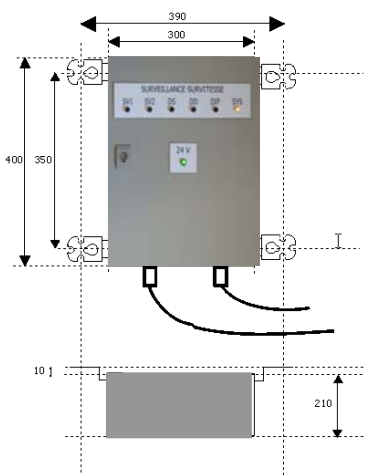
- 2 independent, redundant and quick monitoring circuits (15ms)

Overhead crane operation anomalies monitoring (DS, DD, DIF faults)

- Drums and motors static turning back
- Dynamic turning back
- Differential speed between drums and motors and between the own drums

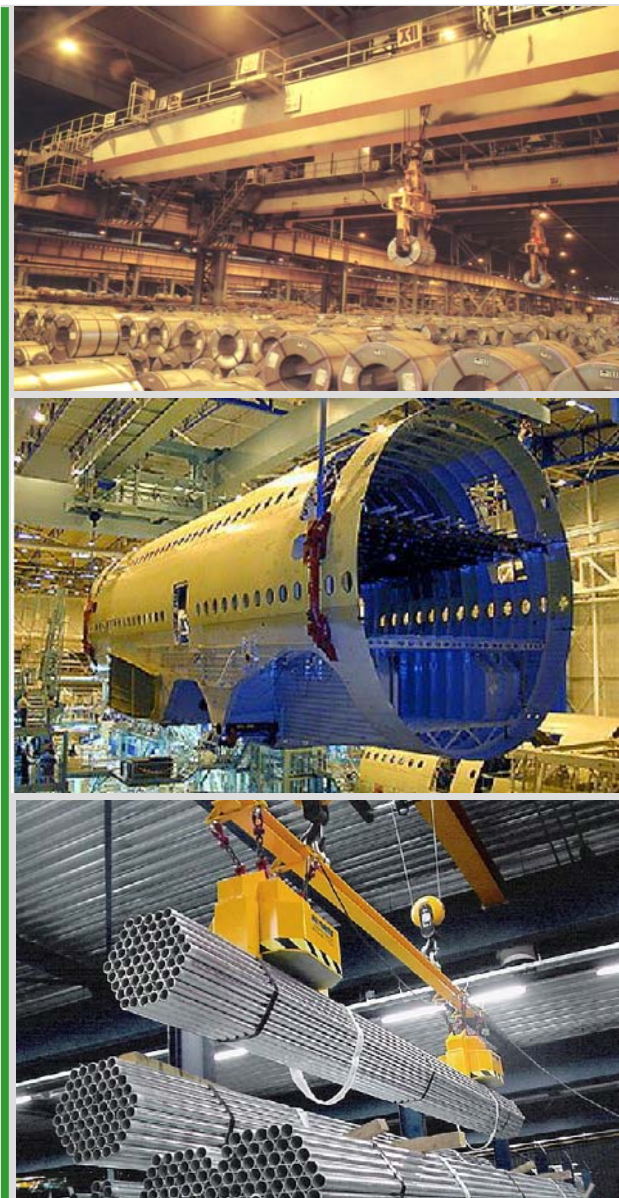
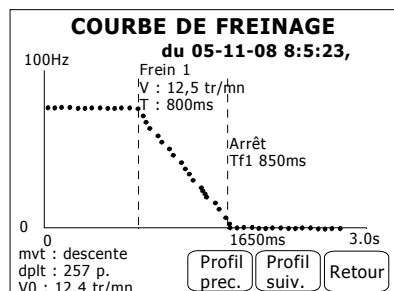
Permanent self-monitoring (SYS fault)

Dimensions:



Braking:

Besides its various benefits, the **OS-22** sensor memorizes the hoists braking curves.



List of the faults controlled by the sensor OS-22

Overspeed fault

Movement rotation discordance fault (static turning back)

Movement fault on stop position (static turning back)

Differential speed fault

Abnormal motor operation fault

Top tour sensor fault

Zero speed fault (V=0)

Commands coherence fault

Consumption fault of the drum sensors

Power supply fault



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