



Industrial Brakes



SIDEOS Sc

Speed Monitoring System

SIDEOS Sc is a speed monitoring system that secures lifting operations controlled by a joystick

SIDEOS Sc is designed to secure all moving equipments: tower cranes, overhead cranes, etc.. This configurable speed monitoring system enables the speed monitoring according to a variable threshold following the speed requested by the crane driver (joystick control) in Ascent or in Descent.

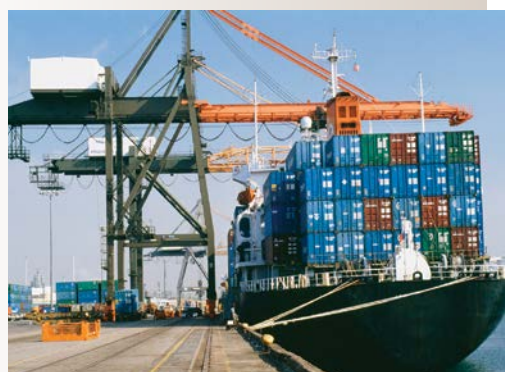
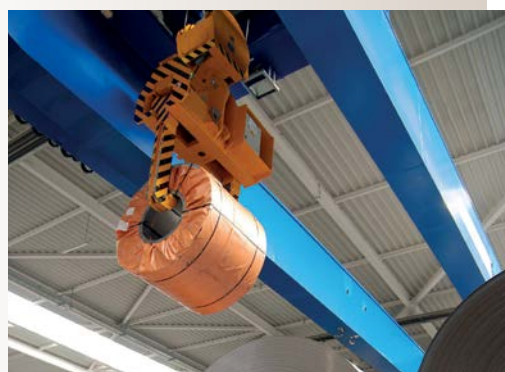
It detects the overspeed or the underspeed, the dynamic slipping (rotation direction monitoring) and the static slipping (load stopping and holding time monitoring).

Applications

- Construction cranes
- Steel Industry
- Port Applications
- Nuclear Cranes

Benefits

- Compliance with the directives: low voltage, EMC, machine security PL= d to e.
- Independant and complete solution: easy use.
- In case of overspeed detection, controls the emergency brakes closing.
- Self-control system: displays all internal and external faults.
- Tests all its functions at the switching on or after a restart.
- LCD display: speed reading, setting, display of the faults detected, display of the orders given to SIDEOS Sc.



TECHNICAL DATA / DIMENSIONS

SIDEOS Sc

Programmable and secure module for speed monitoring, fitted with an efficient auto control system (DC>99%) which secures the overall operation of the overspeed detection system.

Conform to the machine security standards:

NF EN ISO 13489-1

Performance level PL=d to PL=e

Category : 2 to 4 MTTFd = high DC = high

EC marking of conformity:

- 2006/42/EC directive Machine
- 2006/95/EC Low voltage directive (standard NF EN 60204-1)
- 2004/108/EC EMC directive (standards NF EN 61000-6-2, NF EN 61000-6-4)

Operating conditions:

- Ambient temperature: -20°C to +60°C
- IP65 protected electrical casing

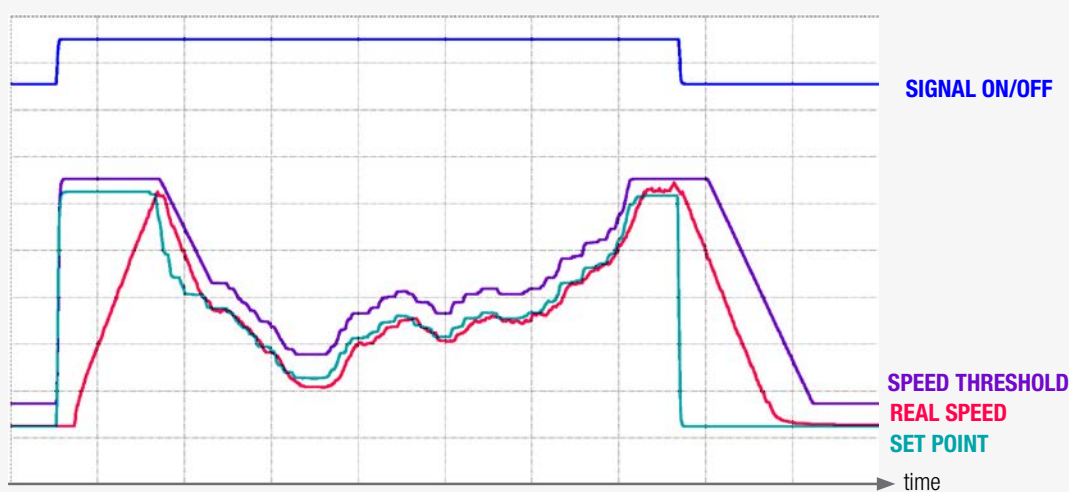
Electrical data:

- 2 versions
AC : 115/230 V AC \pm 10% 50/60Hz
DC : 24 V DC \pm 15%
- Other voltages: consult us

Options:

- Steel casing IP66 IK10
- Anti-condensation kit

Example of speed control with a joystick in normal operation



SET POINT is given to the variator by the joystick

SPEED THRESHOLD = Variator set point + 10% of the nominal speed

Connecting diagram of the SIDEOS Sc

