

SIDEOS SC MODULE

SPEED MONITORING
WITH VARIABLE THRESHOLD

SIDEOS SC IS A SPEED MONITORING MODULE THAT SECURES LIFTING OPERATIONS CONTROLLED BY A JOYSTICK

The SIDEOS Sc module 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).

Benefits include

- 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.



Applications

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



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SIDEOS SC is a configurable module for speed monitoring, fitted with an efficient auto control system (DCavg>99%) which secures the overall operation of the overspeed detection system.

SAFETY DATA

According to EN ISO13849-1:
Performance level PL=d to PL=e
Category : 3 to 4
MTTFd = 230,9 years
Mission Time TM = 20 years
Calculation PFHd = 1460 op. per year

DIRECTIVES CONFORMITY

- 2006/42/EU directive Machine
- 2014/35/EU Low voltage directive (standard NF EN 60204-1)
- 2014/30/EU EMC directive (standards NF EN 61000-6-2, NF EN 61000-6-4)

ELECTRICAL DATA

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

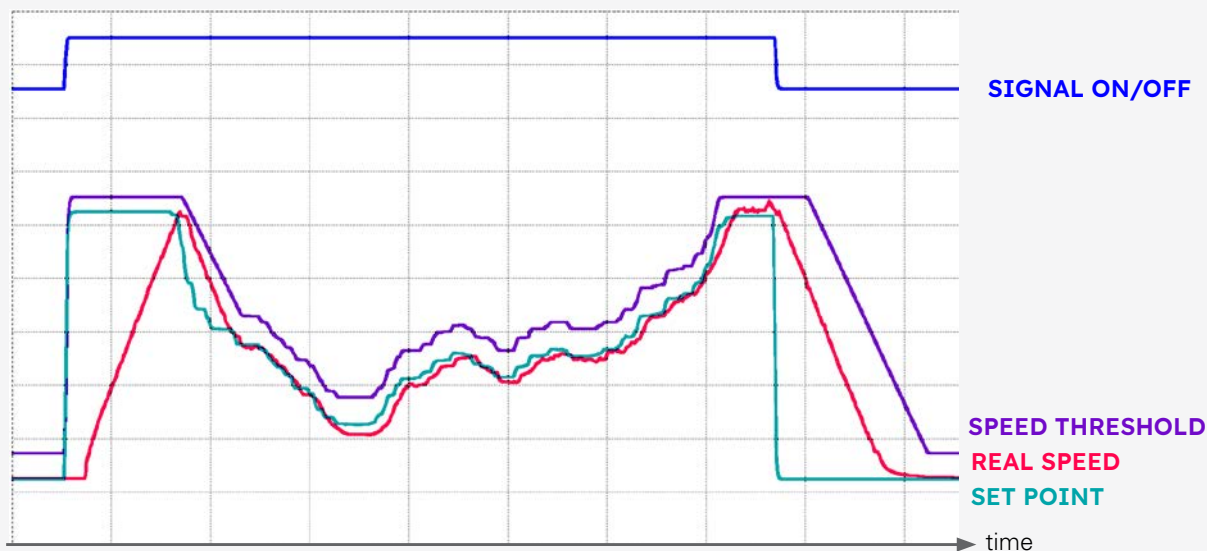
OPTIONS

- Steel casing IP66 IK10
- MSSC contacts module
- Limit switch series 51

OPERATING CONDITIONS

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

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

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