

SAFERAISE

SAFETY – EFFICIENCY – COST REDUCTION

SAFERAISE is a simple anti-pull lateral system, which ensures that loads are only lifted vertically.

It can be easily adapted to existing cranes.

- **LOAD SAFETY**
- **EFFICIENCY WHEN**
- **HOISTING INCREASES LIFETIME OF EQUIPMENT**

ISSUE

The cranes and hoists are designed to work with vertical loads. Doing a non-vertical lifting causes a damage to its wires, because it gets out of its slots as it revolves around the drum and skims against itself or against the drum. When the case is serious, the lateral hoisting causes a derailment and, when it is an excessive lateral load, it causes damages in the crane base, which may result in a catastrophic failure.

With a light, audible warning sign, it indicates that the proximity set value to the damage angle has been exceeded and indicates the crane operator to correct the maneuver.

It stops the hoisting and, with a light, audible warning sign, indicated that the damage angle set value has been exceeded, so the crane operator must correct the maneuver.

FEATURES



SETTING ANGLE INSITU

Setting the action angles, with no need of making complex calculations.



IMPORT - EXPORT

Export the setting in order to be imported from other SAFERAISE.



ANGLE DELTA

Setting the waiting time for the system to act, which will avoid false positives.



WIFI SETTING

Setting via wi-fi through the web dashboard.



TWO ACTIONS

Setting two different action:

Warning Angle: Light, audible warning sign that indicates proximity to the danger angle.

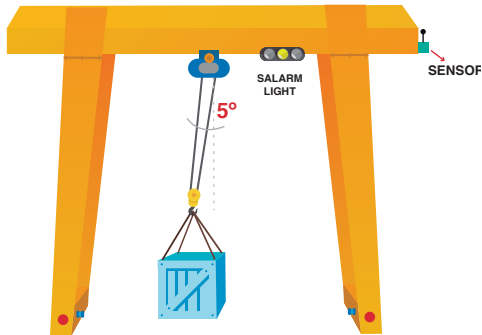
Danger Angle: Stop the maneuver to prevent lateral lifting.



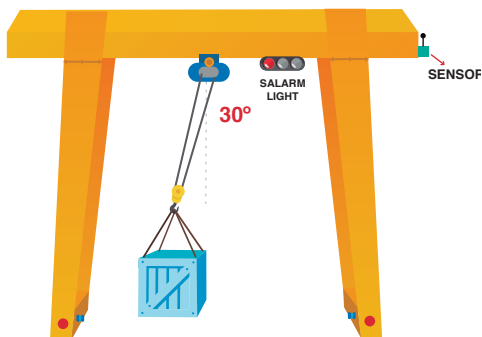
DATABASE BACKUP

Incident storage, exportable in Excel file.

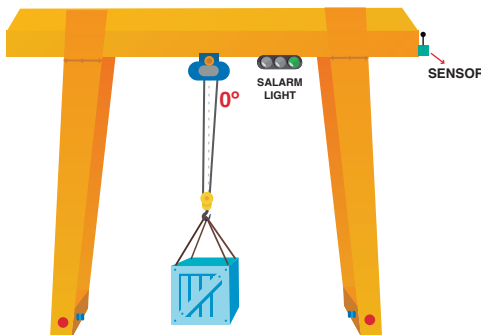
HOW DOES SAFERAISE WORKS?



With a light, audible warning sign, it indicates that the set value of proximity to the damage angle has been exceeded, and it indicates the crane operator to correct the maneuver.



With a light, audible warning sign, it stops the hoisting, which indicated that set value of the damage angle has been exceeded and it indicates the crane operator to correct the maneuver.



With a green light, audible warning sign, it indicates that the hoisting angle is below the warning value and the hoisting work is optimal.

“Save
money
easily”.



DATA SHEET

Processor – CPU	
CPU	Quad-core Cortex-A53
GPU	Mali450
Memory (SDRAM)	512MB DDR3
Onboard Storage	eMMC flash 8GB
External Storage	TF card 16GB
WIFI	AP6212, IEEE 802.11 b/g/n, BT4.2
Input / Output	
Output Port	2 Reles de salida 10 A – 250VAC
Input Port	1 RS-485
Power Source	
Power Source	5 Volts 1 Amp.
Enclosure	
Ip Rating	IP65
Temperature	-20 a +60°
Size	52,6*80,52*59,5 – Ancho*Largo*Alto

DTIC-INC-01-BUS Dual Axis - Sensor						
Parameters	Parameter	Condition	min	Type	max	unit
	Voltage		7		15	V (DC)
	Current	With Load		17	25	ma
	Temperature		-40		+85	°C
	Meter Range		-45		+45	°
	Resolution			0,1		°
	Accuracy	RMS		0,5		°
	Parameter	Condition	max	Type	max	unit
	Zero Temperature	-40 ~+85 °C		±0,03		°C
	Housing size			66*45*50		mm
Cable length			5		meter	

DTIC-INC-01-BUS Dual Axis - Sensor		
OUTPUT	DC VOLTAGE	5V
	RATED CURRENT	1A
	CURRENT RANGE	0.3~1A
	RATED POWER	32W
INPUT	RIPPLE & NOISE	80mVp-p
	VOLTAGE RANGE	88~264VAC
	FREQUENCY RANGE	47~63Hz
	EFFICENCY (Typ.)	79,00 %
	AC CURRENT (Typ.)	0.8A/115VAC 0.55A/230VAC