

Why Hoist Side Pull Detection?

Capable of detecting excessive side pull on a wire rope hoist and alert the operator of the condition or disable functions.



Three Reasons to Consider Side Pull Detection

01

Damage to Hoist

Most standard hoists are not engineered to handle side pull load

02

Personnel Injury

Injury is possible if the load shifts once it is lifted from its resting place on the floor or a staging fixture

03

Damage to Equipment

Damage to nearby equipment is possible once the load shifts after it is lifted



Our Solution

- ⊕ Solid state side pull detection system consists of an assembly that mounts to the wire rope
- ⊕ Mount assembly to the dead end (fixed end) or around the equalizer sheath
- ⊕ Install on single or double reeved hoists
- ⊕ Adapts to a range of wire rope diameters
- ⊕ Controls mount to the hoist or trolley and provide an intuitive menu driven interface
- ⊕ One button zero feature
- ⊕ Set limits, timing, hysteresis
- ⊕ Built in error logging (time and date); last 5 events

SOLUTION

Why use Crane Sentry Hoist Side Pull Solutions?

Usage of hoists for lifting loads in industrial applications has inherent risk, requiring the need for safety precautions. If a load is not lifted directly vertical and is permitted to side load a hoist, damage to the hoist, injury to personnel, and/or damage to nearby equipment can result. This is referred to as "side pulling" a hoist. Detection of potential side pull conditions can be tied into hoist controls to not permit a lift under this condition.

When a large load, such as a stamping die, injection mold, or a container is not lifted with the hoist centered, the risk of injury or damage increases. Side pulling a hoist is not permitted by OSHA regulations under most conditions. Many hoists installed in industry do not have any form of side pull protection installed.

CRANE SENTRY HOIST SIDE PULL SPECIFICATIONS

CONTROL SPECIFICATIONS	
Power Requirement	0.5 A @ 110 VAC
Number of Outputs	2
Relay Output Type	SPST NO/NC; rated for 100k operations at max load
Rated Current	8A max per output
Rated Voltage	250 VAC
Graphic Display Type	STN LCD, Backlight Illumination, 2 line display
Operating Temp (Control Box)	0°C to 50°C
Storage Temp	-20°C to 60°C
Memory Backup	7 years typical at 25°C
Ingress Protection	IP65
Enclosure Material	Polycarbonate
SENSOR SPECIFICATIONS	
Max Measuring Range	+/- 90° per axis
Measuring Axis	X,Y
Operating Temp	-40°C to 85°C
Ingress Protection	IP67
Sensor Assembly	Fits wire ropes sizes 5-12mm "B1" / 12-20mm "B2"

Models Available

- ⊖ Single axis
- ⊖ Dual axis (X,Y)
- ⊖ Omni-directional (combination of X and Y)

