

## SideWise

### Why install SideWise?

Cranes and hoists are only designed to withstand vertical loading. Out-of-vertical hoisting, commonly referred to as side-pulling, damages wire ropes and rope guides, because the wire jumps out of its grooves as it winds around the drum and rubs against itself or the drum. In more severe cases, side pulling causes derailment of the trolley or gantry or excessive lateral loads on the crane structure resulting in catastrophic beam failure. This may occur when moving loads far smaller than the SWL. For these reasons, side pulling is prohibited by AS2550.1-2011.

Operator training is not enough! There have been a number of significant incidents in Australia and worldwide over recent years attributed to side-pulling.

SideWise is a simple anti-side-pull system that ensures loads are only lifted vertically. It can easily be retrofitted to existing cranes and consists of a sensor unit mounted on the rope with a signal processing module in the hoist control box. Crane motion is disabled as soon as any long or cross-travel horizontal loads are detected.

### Technical Details



#### PHYSICAL

Sensor unit (HxWxD): 130x67x50mm  
Signal processor (HxWxD): 100x114x23mm  
Mounting (Processor): 30mm DIN Rail

#### ELECTRICAL

Supply voltage: 24-240V AC/DC  
Power: 100mW  
Outputs: 6 (SSR)

### About CASWA

CASWA is an Australian company that designs electronics and software for collecting, analysing and disseminating data to help asset owners and maintainers make better business decisions. A range of devices have been developed specifically to support the crane industry. CASWA's sister company, Sole Digital Pty Ltd, manufactures these products at a facility in Perth, Western Australia.

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