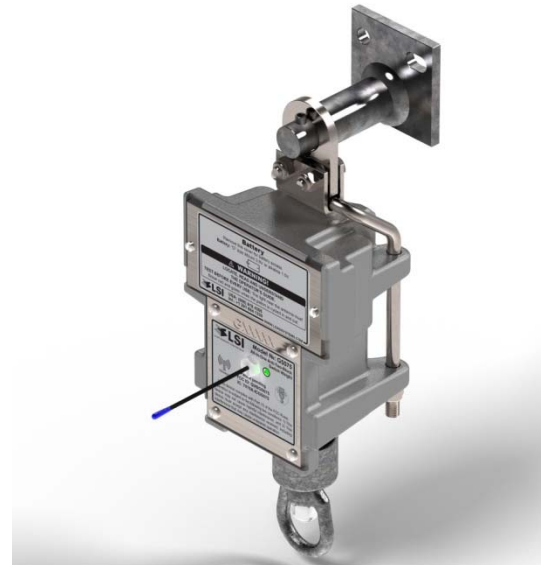


Crane Anti-Two-Block sensor

Features:

- Anti-Two-Block Switch
- Sealed switch mechanism
- Mechanism life over 250,000 cycles
- Malleable cast iron and stainless steel enclosure
- Line of sight radio range of 4000 ft (1300m)
- Two ways radio communications
- Operates from one 'D' cell battery lithium 3.6V or alkaline 1.5V.
- 3 to 4 years battery life for typical applications
- ISM License free band with wavelength and modulation optimized for radio communication in industrial environment.
- Temperature range: -40°C to 65°C (-40°F to 150°F)
- Potted electronics for increase water proof protection
- Class 1 division 1 option available



Anti-Two-Block switch P/N:GS075B

Applications:

- Anti-two-block limit switch.

General Description:

The anti-two-block switch comprises of the radio transmitter, battery and switch mechanism. The switch mounts at the boom tip. A weight and chain assembly is attached to the bottom eyebolt of the A2B switch. When the weight assembly is lifted by the ball/block, the internal switch in the A2B will trip an alarm, warning the operator of a two-block event.

The switch mounting bracket design allows the switch to rotate in two axis. The quick slip design of the mounting bracket allows the switch to easily be added or removed from the switch mounting bracket without the need for tools.

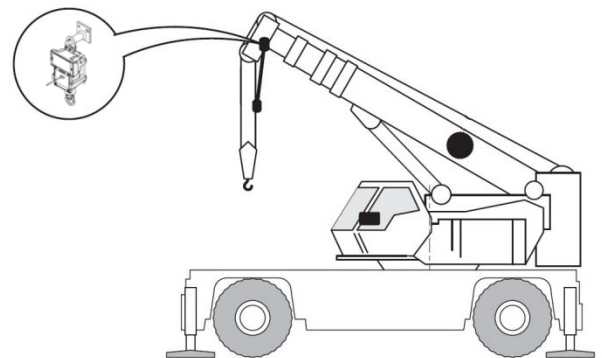


Figure: GS075B installation on the main boom to limit the height of the hook block

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Ordering information

Model	Description
GS075B	Anti-Two-Block Switch
GS075B-CE	868MHz frequency band
GS075-CSA	Class 1 Division 1 version of the GS075B. Intrinsically safe, temperature code T4.
TA011	Replacement sensor antenna
LB011	Anti-Two-Block Switch Mounting Bracket (ordered separately)
LB010	Weight & Chain Assembly
LB012A	Fastline Weight & Chain Assembly
TB021	Spare 'D' cell lithium battery 3.6V
TB015	Spare 'D' cell lithium battery 3.6V for class 1 division 1 version

GS075B

Specifications

Parameter	Test Condition	Min	Typ	Max	Unit
Switch travel Length			3/8 (9.5)		In (cm)
Radio Power					
	GS075B (all versions)	0.013 11	0.016 12	0.020 13	Watts dBm
Radio Frequency					
North American version	GS075B (and CSA)	902	916	928	MHz
European version	GS075B-CE	868	869	870	MHz
Battery life					
	'D' cell battery life depends on usage	12	24	28	Months
	'D' cell alkaline battery	8	12	16	Months
Other					
Weight	GS075B		10 (4.6)		lbs (kg)

Absolute maximum ratings

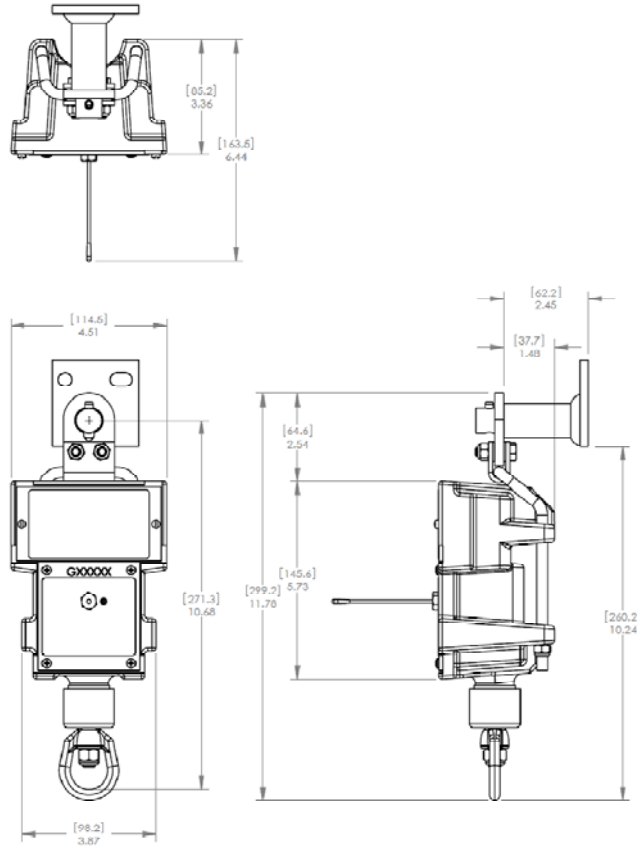
Parameter	Test Condition	Min	Typ	Max	Unit
Temperature range	Operating	-40		+65	°C
		-40		+150	°F

Certifications

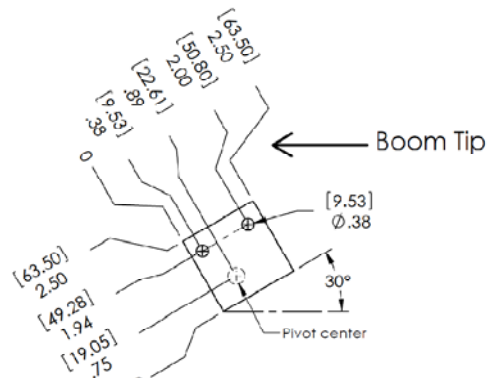
FCC / IC / CE certification

CSA option: class 1 division 1, Groups A, B, C and D, EXIA Intrinsically Safe, Temperature Code: T4

Dimensions and installation



A2B Switch (not to scale)



LB011 footing (not to scale)

Units are in inches [millimeters]

Position the sensor mounting bracket (LB011). To ensure that the sensor can pivot securely on the mounting bracket throughout the full range of boom angle, the mounting bracket must be positioned at a 30° from horizontal with the boom parallel to the ground and such that the locking pin of the mounting bracket points up.

Install the GS075B on the LB011 (switch bracket) already installed on the crane boom, with the antenna pointing away from the boom. Install a weight and chain assembly to the eye nut. The weight and chain assembly can either be supplied by LSI (as an option) or the original assembly supplied with the crane. If the original assembly is to be used, its total weight must not be more than 13lb.