

Savira Lift One Model (Eco series)

- ❖ Our extensive range of **savira LiftOne** i.e **Industrial Lifting Equipment** is developed in accordance with DSP technology and widely utilized in industrial material handling equipment.
- ❖ These Load Limiter are used For **EOT Crane Load Limiter**.
- ❖ It is an innovative approach towards **Crane** safe guard instrumentation. These are enabled with electronic sensor which senses the **Crane** loading, therefore automatically trips the up motion under overload condition. As the overload condition is removed, the up motion restores back.
- ❖ We design our range in various customized forms at economical prices without compromising on **Crane** safety.
- ❖ **These are highly acknowledged in heavy duty engineering industries as these comprise the following:**
 - ♦ Audio visual annunciation with the help of ultra bright led lamps and loud electronic hooter clear indication of operating zones and helps in judging the difficult lifts
- ❖ **Moreover, we test our range on the following parameters:**
 - ♦ Humidity, temperature and vibration
 - ♦ Extensive transient protection testing has been performed to ensure faultless operation even under severe climatic conditions such as lightning
- ❖ **Applications of EOT Crane Load Limiter:**
 - ♦ Eot Crane, Gantry Crane, Hoist













❖ Features of savira Lift One Model (Eco series)

- ♦ Rugged design tropicalised for Indian conditions
- ♦ Economical even for small capacity **Crane**
- ♦ User settable multiple alarm zones
- ♦ Various sensor options for different applications
- ♦ Quick and easy installation as well as calibration
- ♦ Self-diagnostics system warns the operator of any type of system failure
- ♦ Designed for ease of operation and service
- ♦ Compact, powerful computing
- ♦ Plug-in cables
- ♦ System purpose-designed for long life in crange environment
- ♦ Minimal number of moving parts with solid-state circuitry, hence long uninterrupted service

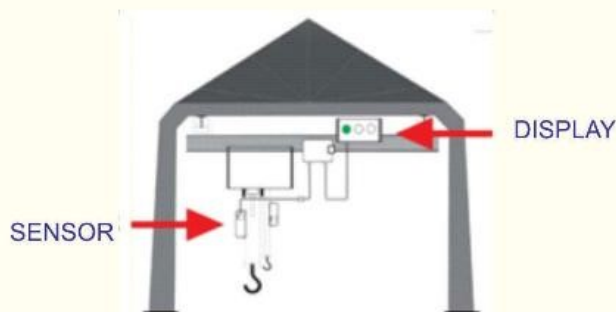
Benefits of EOT Crane Load Limiter:

- Audio / visual indication for overload conditions
- Ultra bright led lamps make reading from a distance easy under any ambient lighting conditions
- Potential free contact for motion cut control action
- Wide operating voltage range (85vac to 265vac)
- Accuracy is better than +/-2 %
- Capable of handling dynamic loading without giving false alarm

ZONES	SET LIMITS	VISUAL INDICATION	HOOTER	RELAY1	RELAY2
Safe	0 - 80 %			X	X
Approach	80 - 90 %			X	X
Alert	90 - 100 %			X	X
Alarm	100 - 110%			YES	X
Cutoff	>110 %			YES	YES

TECHINCAL SHEET

Typical System Precision	± 2% at maximum rated capacity (depending on crane condition and operating environment).
Control Circuit	DSP Microcontroller based fully digital circuitry.
Operating Temperature	0° to 70° C
Supply Voltage	Universal AC voltage of 85 to 265 VAC.
I/Os	2 analog current Inputs. 2 digital Inputs. 2 relay Outputs.
Relay Outputs	2NO/NC rated @ 6A



INSTALLATION DIAGRAM

Savira Smart Lift Inspiron

- ❖ Load indicating system for Industrial material handling equipment's.
- ❖ The large ultra bright 5,10 or 12 inch high, 7 segments Led Display along with the led Annunciator clearly displays the Load lifted along with all error messages.
- ❖ It senses and monitors the crane loading and automatically trips the UP motion under overload condition. The UP motion is restored automatically once the overload condition is removed.
- ❖ It also monitors the wire rope slack condition and automatically trips the DOWN motion under wire rope slack condition..**
- ❖ Simultaneous smart monitoring of both main and Aux hoists and tandem load lifting.
- ❖ The system can be configured, calibrated, and operated from a distance by using radio linked Remote control.
- ❖ Extremely flexible, this system can be customized to meet your most demanding requirement
- ❖ **Applications** EOT Cranes Gantry Cranes.Hoist.
- ** Optional function. Hook weight should be sufficient to be detected by select



Features

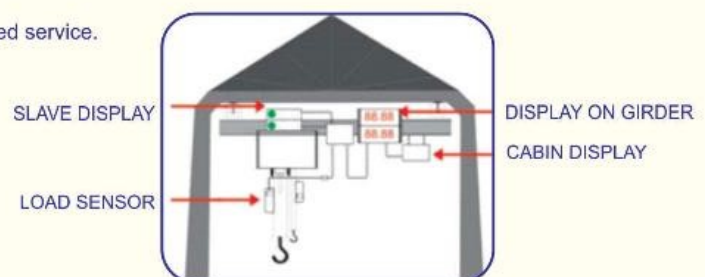
- ◆ Large 5,8 or 12 inch high, ultra-bright LED Display made of 135° viewing angle LEDs similar to railways passenger information display boards. This allows for ease of reading from any angle and long distances.
- ◆ Advanced 32 bit DSP microcontroller technology. Various Sensor Options for different applications. Audio / visual indication for below fault conditions:
- ◆ Hook overload conditions trips hook up motion
- ◆ Wire rope slack condition trips hook down motion.
- ◆ ** Hook over hoist condition trips hook up motion ,
- ◆ Radio frequency remote for functions like TARE, MUTE CALIBRATION, etc.
- ◆ Potential free contact for overload motion cut control action.
- ◆ Accuracy is better than +/-1
- ◆ User settable multiple alarm zones.
- ◆ Factory pre calibration of sensors. Option of selecting between factory and on site calibration at site. Also capable of multipoint calibration for more accuracy.
- ◆ Capable of handling dynamic loading without giving false alarm.
- ◆ Quick and easy installation as well as calibration.
- ◆ Self diagnostics system warns the operator of any type of system failure.
- ◆ Wide operating voltage range (85Vac to 265Vac).Fully tested against humidity, temperature and vibration.
- ◆ Extensive transient protection testing has been performed to ensure faultless operation even under severe climatic conditions such as lightning.
- ◆ System purpose designed for long life in crange environment.
- ◆ Minimal number of moving parts with solid state circuitry. Hence long uninterrupted service.

Savira Smart Lift Inspiron Sensors

- ◆ The, SMART LIFT Inspiron series of load indicators offer various sensor options to users.
- ◆ The Line rider and Wire rope clamp are easy to install to existing cranes. They can be clamped to the non rotating wire rope of the crane.
- ◆ For accuracies of better than +/- 1 % of FS. We can offer customized load pin or direct loading Tensile load cell.
- ◆ All sensors have an inbuilt pre amplifier which converts the sensor signal to 420mA current signal which is transmitted to the control unit.
- ◆ These sensors are rugged and highly reliable with inbuilt temperature compensation.
- ◆ We also offer extended temperature sensors up to 120 deg C operating temperature.



ZONES	SET LIMITS	VISUAL INDICATION	HOOTER	MESSAGE DISPLAYED	RELAY1	RELAY2
Safe	0 - 80 %			-----	X	X
Approach	80 - 90 %			Alm	X	X
Alert	90 - 100 %			Alrt	X	X
Alarm	100 - 110%			Alrn	YES	X
Cutoff	>110 %			Stop	YES	YES



TECHINCAL SHEET

Typical System Precision	± 2% at maximum rated capacity (depending on crane condition and operating environment).
Control Circuit	DSP Microcontroller based fully digital circuitry.
Operating Temperature	0° to 70° C
Supply Voltage	Universal AC voltage of 85 to 265 VAC.
I/Os	2 analog current Inputs. 2 digital Inputs. 2 relay Outputs.
Relay Outputs	2NO/NC rated @ 6A
Peripheral Communication Port	RS 232 NON ISOLATED

Note:- The indicated figure is for safety purpose only and not to be used as a measurement of the load.