



SAFE LOAD INDICATOR
KNUCKLE BOOM CRANE
(About, Offerings and Capabilities)

Company Introduction

Incepted in the year 2010 at Delhi, India, We **Saras Equipments Pvt. Ltd.** are an ISO 9001:2015 company and distinguished Manufacturer and Supplier of Load Indicator and Measurements Products. Apart from this, we are also renowned as the Service Provider covering areas like Construction & Manufacturing Industries. Our product and service range comprises Automatic Safe Load Indicator parts, Customized Software Development, Digital Indicator, Universal Testing Machine, Impact Testing Machine, Torsion Testing Machines, Shear Beam Load Cells and Shank Hook. Our organization has years of experience in providing load indicator, measurements products & services. We are an ISO 9001:2015 company with World-Class standards such as complete integrated solution approach, Quality Management Systems for all processes and experienced, skill based technical resources & trainers.

SARAS
EQUIPMENTS

your safety our surety.....

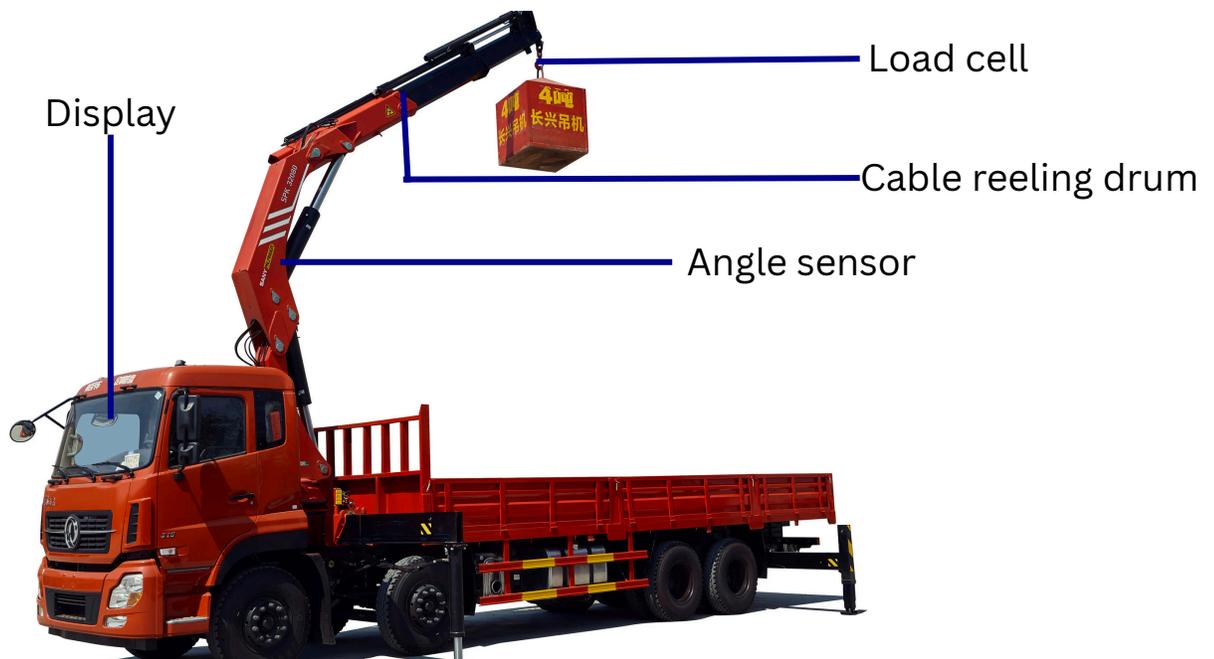
INTRODUCTION OF SAFE LOAD INDICATOR

Our Safe Load Indicator (SLI) system for Knuckle boom cranes is a crucial safety solution designed to monitor and control lifting operations in construction. It continuously measures load, boom angle, and working radius, providing real-time data to the operator to prevent overloading and unsafe conditions.

Engineered to withstand rugged job site conditions, this SLI system includes:

Features

- Real-time load monitoring
- Visual and audible overload alarms
- Boom angle and radius sensors
- Relay cut-off for automatic safety lock
- Weatherproof (IP65-rated) design



Products Information

Automatic Safe Load Indicator

Crane Safe Load Indicator with Touchscreen Display for Knuckle Boom Crane is a smart safety solution designed for tower cranes to ensure safe and controlled lifting operations. It continuously monitors real-time load, radius, and operating conditions, and displays accurate data on a high-resolution, user-friendly touchscreen. The system provides instant visual and audible alerts in case of overload or unsafe operation, helping to prevent accidents, equipment damage, and downtime. Reliable, accurate, and easy to operate, this device enhances site safety, crane performance, and operational efficiency.



Parameters

- High-resolution touchscreen digital display
- Real-time load and radius monitoring
- Audio & visual overload warnings
- Accurate sensor-based measurement
- Easy installation and calibration
- Weather-resistant and durable design
- Compatible with most tower crane model
- Prevents crane overloading and accidents
- Improves operator confidence and safety

Dimension

L*B*H = (205*55*145)mm

Angle Sensor

Angle Sensor for Pipe Layer Cranes is equipped with inbuilt sensor for accurate measurement of boom angle. It is an essential component for crane safety systems such as Load Moment Indicators (LMI) and Safe Load Indicators (SLI).

Manufactured using high-grade raw materials sourced from reliable vendors, the cable reeling drum is designed to deliver high performance, reliability, and trouble-free operation even in demanding working conditions. Its robust construction ensures long service life, minimal maintenance, and consistent accuracy during crane operations.



Parameters

- Material of Construction: MS Iron Box
- Mounting: Direct on Boom
- Wire Diameter: As req,
- Boom Angle Sensor: Inbuilt
- Maximum Cable Length: NA
- Linearity: $\pm 2\%$ of Full Scale
- Operating Temperature: 0°C to 60°C
- Ingress Protection: IP67
- Service Life: 5 Years

Load Cell

S-Type Load Cell is a highly accurate and durable force-measurement device designed for both tension and compression applications. Its distinctive S-shaped construction allows easy installation and reliable performance, making it suitable for a wide range of industrial weighing and load-monitoring systems.

The S-Type Load Cell offers excellent resistance to corrosion, vibration, and harsh environmental conditions. It delivers consistent and precise output, ensuring dependable operation in demanding industrial environments.



Parameters

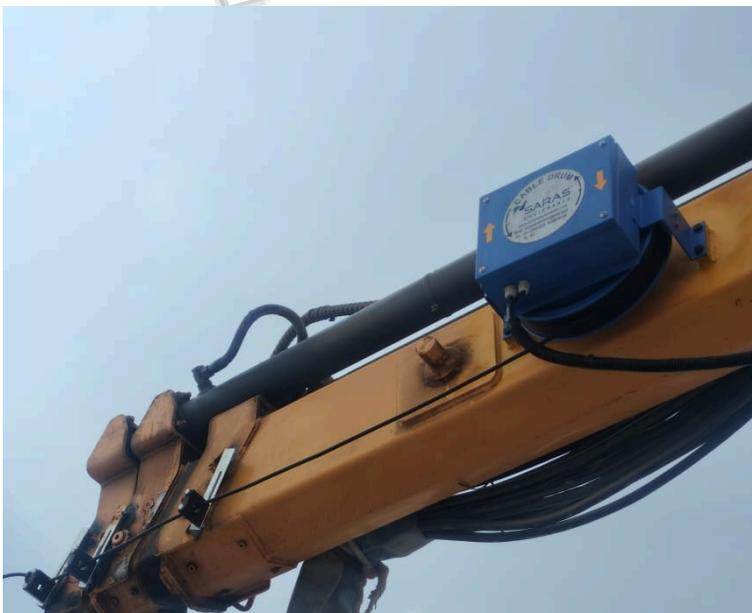
- Accuracy Class: C2 & C3
- Rated Output: 2.0 ± 0.004 mV/V
- Comprehensive Error (% F.S): ± 0.03 & ± 0.02
- Creep (% F.S / 30 min): \pm Compensated
- Temperature Range: -10°C to $+40^{\circ}\text{C}$
- 0.024 & ± 0.016
- Zero Balance (% F.S): ± 1.0
- Input Resistance: 350 ± 5 Ω
- Output Resistance: 350 ± 3 Ω
- Insulation Resistance: ≥ 5000 M Ω (100 VDC)
- Temperature Effect on Span (% F.S / 10°C): ± 0.017 & ± 0.011
- Temperature Effect on Zero (% F.S / 10°C): ± 0.023 & ± 0.015



Cable Reeling Drum

Cable Reeling Drum for Knuckle Boom Cranes is equipped with dual inbuilt sensors for accurate measurement of boom angle and boom length. It is an essential component for crane safety systems such as Load Moment Indicators (LMI) and Safe Load Indicators (SLI).

Manufactured using high-grade raw materials sourced from reliable vendors, the cable reeling drum is designed to deliver high performance, reliability, and trouble-free operation even in demanding working conditions. Its robust construction ensures long service life, minimal maintenance, and consistent accuracy during crane operations.



Parameters

- Material of Construction: MS 31
- Mounting: Direct on Boom
- Clutch Wire Diameter: 3 mm
- Boom Length Sensor: Inbuilt
- Boom Angle Sensor: Inbuilt
- Maximum Cable Length: As Required
- Linearity: $\pm 2\%$ of Full Scale
- Operating Temperature: 0°C to 60°C
- Ingress Protection: IP67
- Service Life: 5 Years

Thank You

SARAS EQUIPMENTS PRIVATE LIMITED

(AN ISO CERTIFIED 9001:2015)

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WE CARE FOR EVERY CUSTOMER

