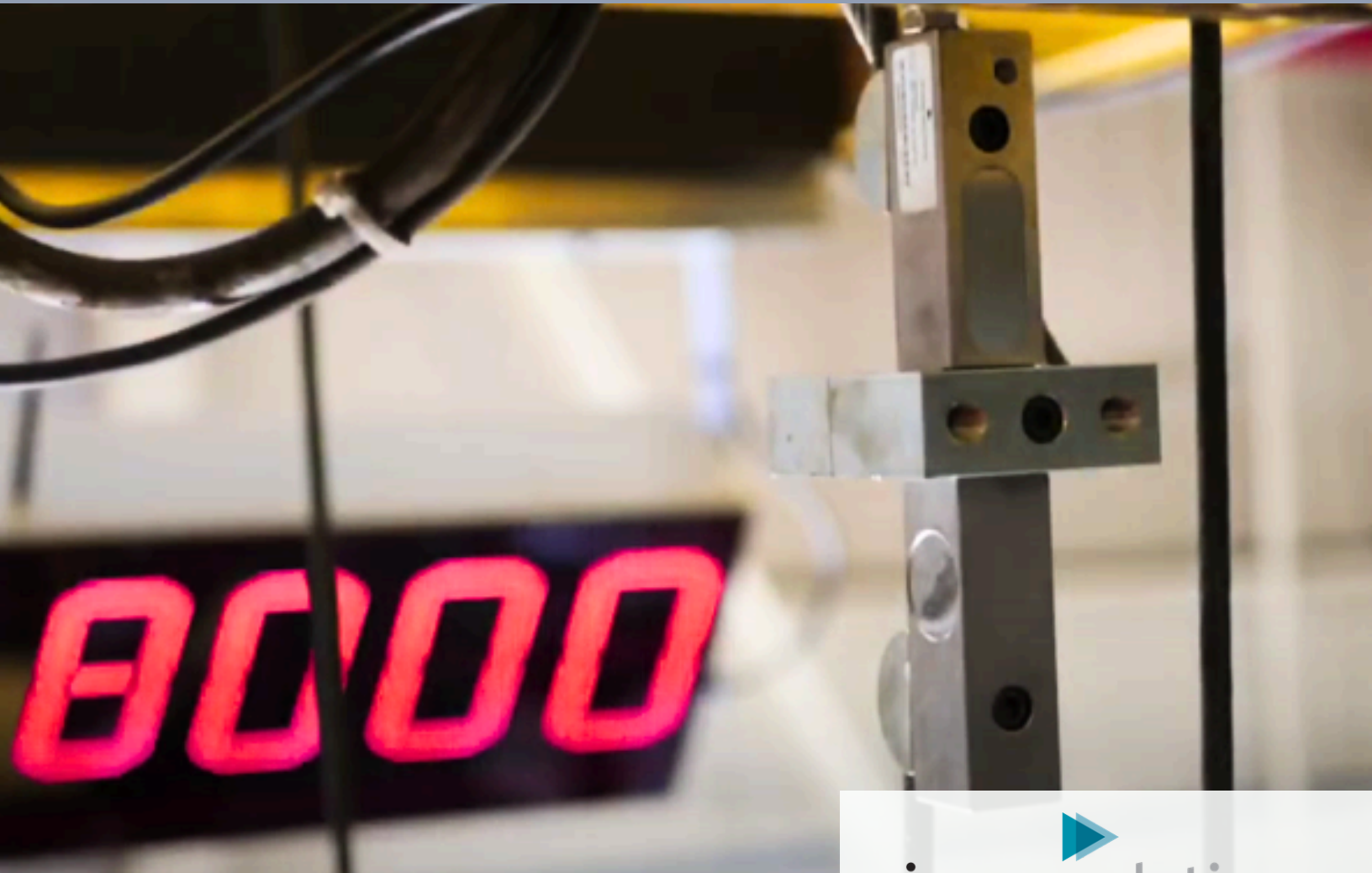


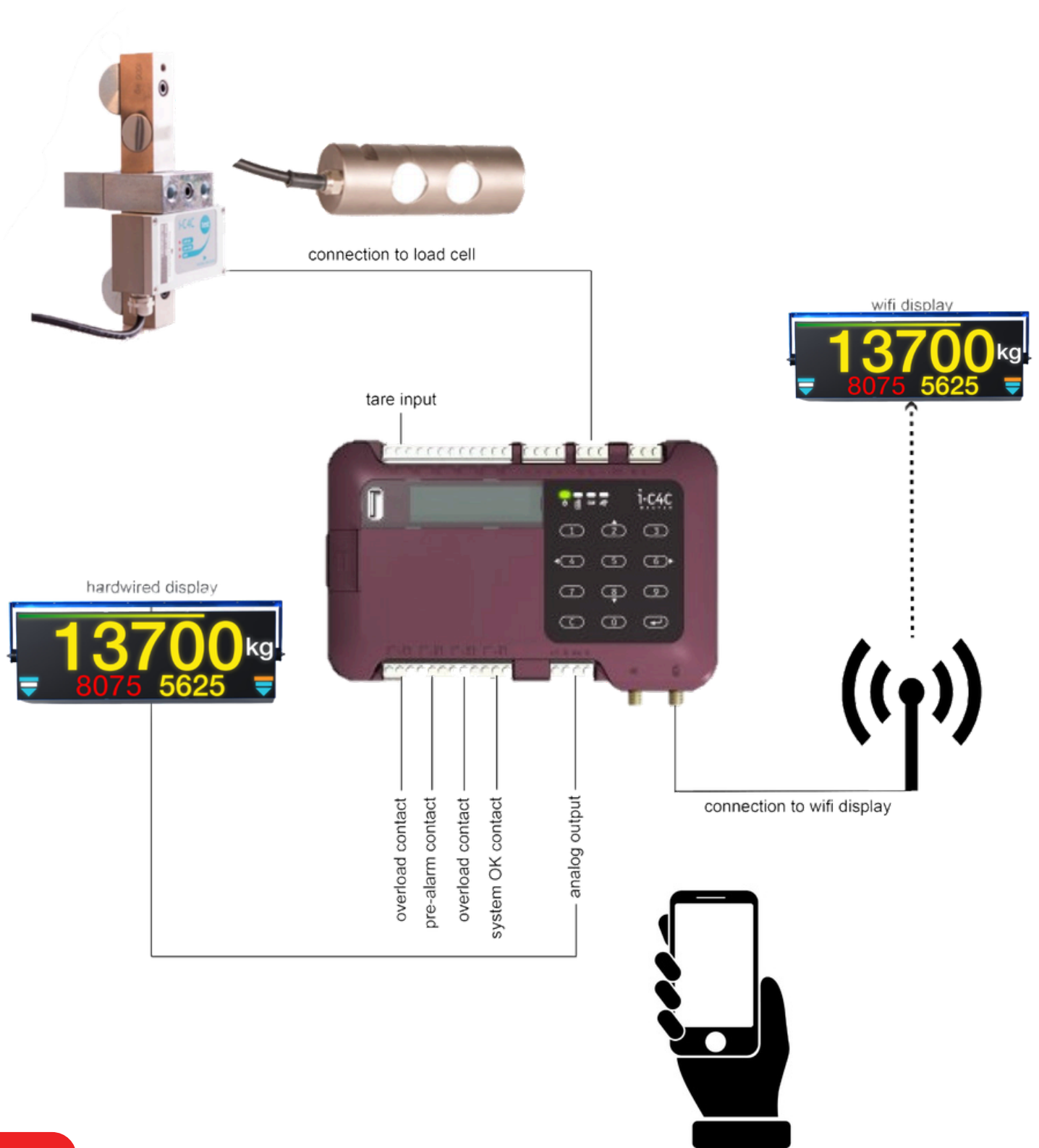


 incosa solutions

LOAD CELL SYSTEMS FOR WIRE ROPE HOISTS

Overload protection, weigh indication with
scoreboards, slack rope prevention, load spectrum
monitoring, data logging, and more

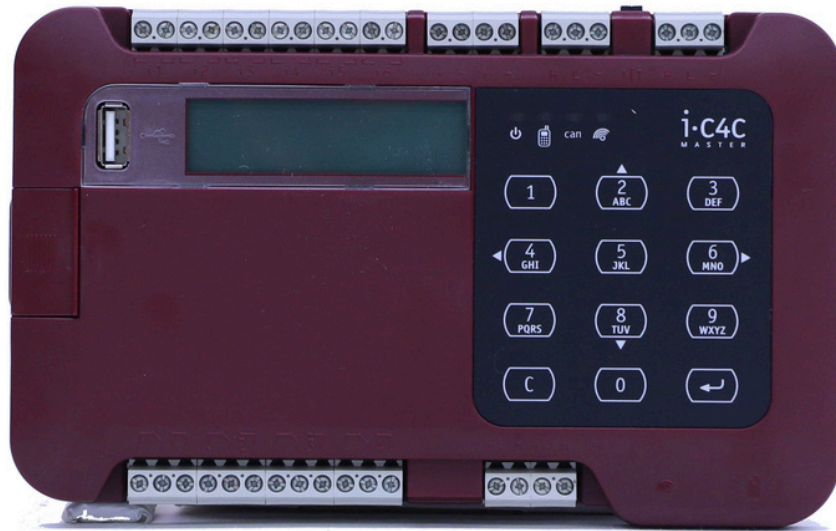
DIAGRAM OF A TYPICAL INCOSA IC4C LOAD CELL SYSTEM



Installation Video

Programmable from any
Wi-Fi enabled mobile device

IC4C CONTROLLER



FEATURES AND BENEFITS:

- **THREE LEVELS OF PROTECTION - OVERLOAD PRE-ALARM, OVERLOAD PREVENTION, AND SLACK ROPE PREVENTION**
 - REDUCES COSTLY MAINTENANCE AND DOWNTIME OF EQUIPMENT
- **CANBUS COMMUNICATION BETWEEN LOAD CELL AND IC4C CONTROLLER**
 - ONLY KNOWN WEIGHT (VERSUS FULL CAPACITY WEIGHT) IS NECESSARY TO SETUP AND CALIBRATE THE SYSTEM
 - CANBUS DIGITAL SIGNAL IS RESISTANT TO INTERFERENCE WHEN IN PROXIMITY TO HIGH VOLTAGE LINES
- **BUILT IN WIFI CAPABILITY**
 - SYSTEM CAN BE SETUP AND ADJUSTED FROM THE GROUND ON ANY WIFI ENABLED MOBILE DEVICE
 - WIRELESS COMMUNICATION BETWEEN MULTIPLE IC4C UNITS FOR LOAD SUMMING AND CRANE TO CRANE COMMUNICATION
 - WIRELESS COMMUNICATION BETWEEN IC4C AND SCOREBOARDS ELIMINATES THE NEED FOR CABLED CONNECTION TO SCOREBOARDS
- **OPTIONAL MONITORING AND DATA LOGGING SOFTWARE**
 - LOGS OVERLOAD EVENTS AND LOAD SPECTRUM
 - OPTIONAL GSM CARD FOR PUSHING ALERTS TO PERSONNEL
- **OPTIONAL CLOUD CONNECTION**
 - REMOTE ACCESS FOR MONITORING, REPORTING, AND TROUBLESHOOTING

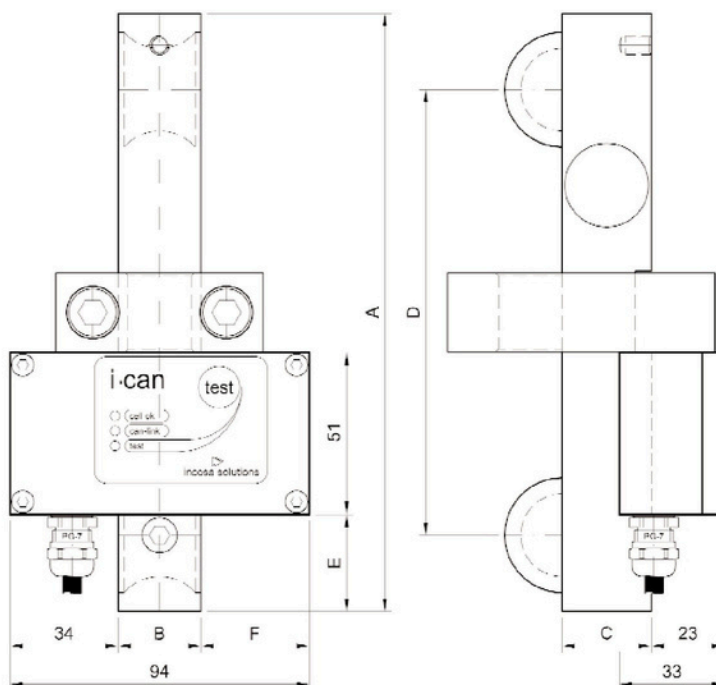
CLAMP ON LOAD CELL DETAILS

CAPACITIES

**1000, 3500, 7000, 10000
and 15000 kg**



- Load cells specially designed for measuring the load in steel cables.
- Manufactured in alloy steel or stainless steel.
- Anti-corrosion treatment of chemical nickel (Alloy steel).
- Load cell with CANOpen interface to connect to the I-CAN load limiter of INCOSA.



Cod.	Cap. (kg.)	A	B	C	D	E	F
003307	1000	188	26	28	140	30	34
000420	3500						
005387	7000						
000422	10000	322	36	32	260	89	24
000248	15000						

CAN- CONNECTOR

TYPE 1 AND TYPE 2

5 WIRES

CAN-H	GREEN
CAN-L	WHITE
SUPPLY +	RED
SUPPLY -	BLACK
EARTH	SHIELD

TECHNICAL CHARACTERISTICS

Sensibility	2mV/V	Temp. effect on zero	<0.024%/5°C
Tolerance adjust sensibility	5%	Compensated margin of temperature	-10°C/+40°C
Tolerance adjust on zero	10% F.S.	Input resistance	350Ω±3Ω
Tension of excitation	≤ 12V	Output resistance	350Ω±1.5Ω
Non Linearity	<0.034% F.S.	Insulation resistance (V.Test=100V)	>5000 10 ⁹ Ω
Non Repeatability	<0.034% F.S.	Maximum work load	150% F.S.
Combined error	<0.07% F.S.	Load limit without loss of characteristics	200% F.S.
Hysteresis	<0.07% F.S.	Break load	>300% F.S.
Creep in 30 minutes	<0.037% F.S.	Cable	Flexible 4x0.25mm
Temp. effect on sensibility	<0.05%	Protection	IP 66

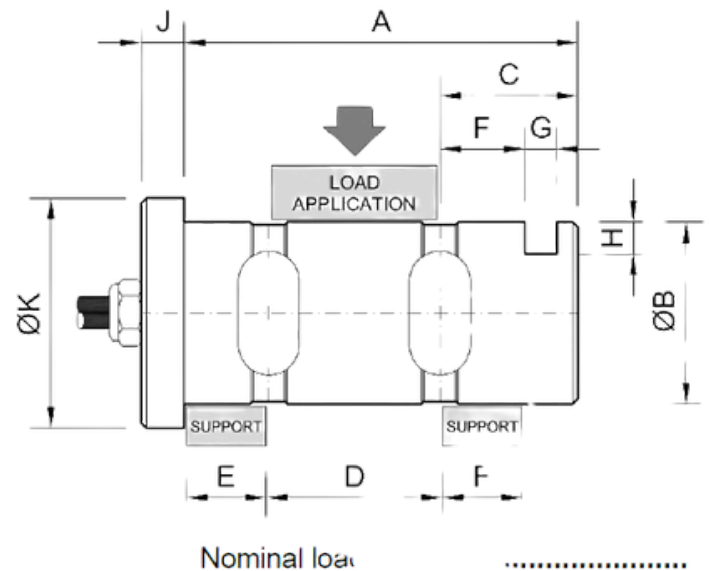
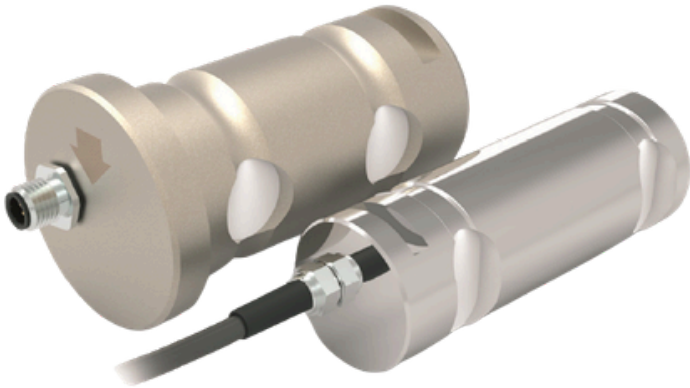
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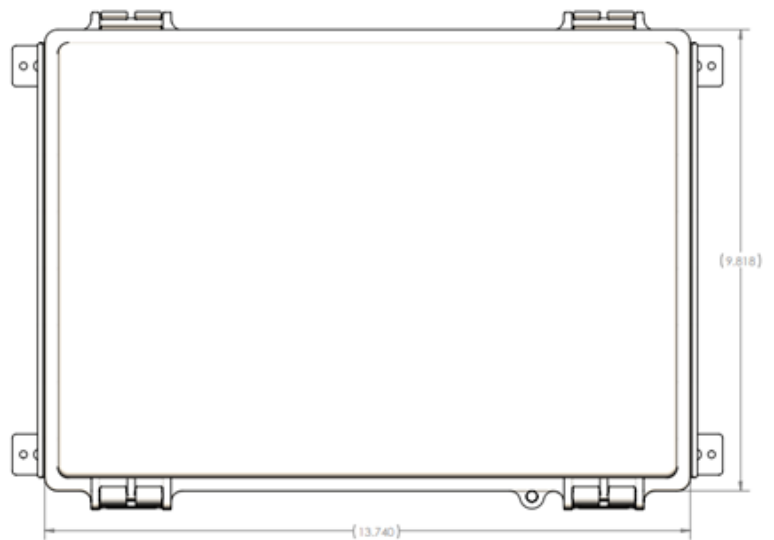
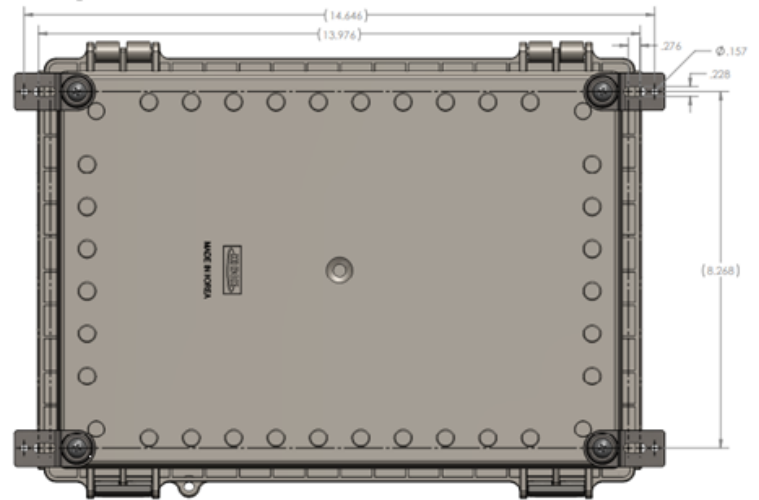
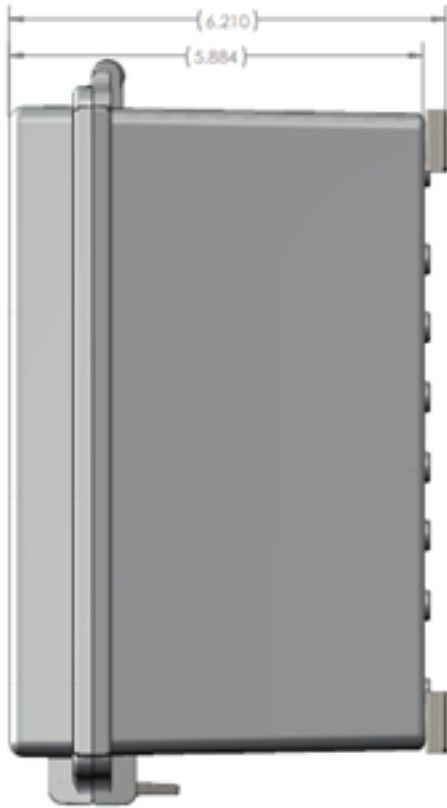
LOAD PIN DETAILS



Required Dimensions	Dimensions in mm									
	A	ØB	C	D	E	F	G	H	J	ØK

Technical Characteristics			
Accuracy	0,2 %	Maximum Working Load	150 % F.S.
Hysteresis	< 0,07 % F.S.	Break Load	>300 % F.S.
Creep (over 30 minutes)	0,01 % F.S.	Load Limit Without Loss of Characteristics	200 % F.S.
Temperature effect on sensitivity	0,044 % / 10°C	Protection class	IP 65
Temperature effect on zero	0,035 % / 5°C	Cable type	4x0,22 mm ² Ø6
Compensated temperature range	-10 ... 40 °C	Cable length	5m.
Service temperature range	-20 ... 60 °C	Material	Alloy steel
Insulation Resistance (V. Test = 100V)	4 GΩ / 100 V		Stainless steel

IC4C STANDARD PANEL DETAILS



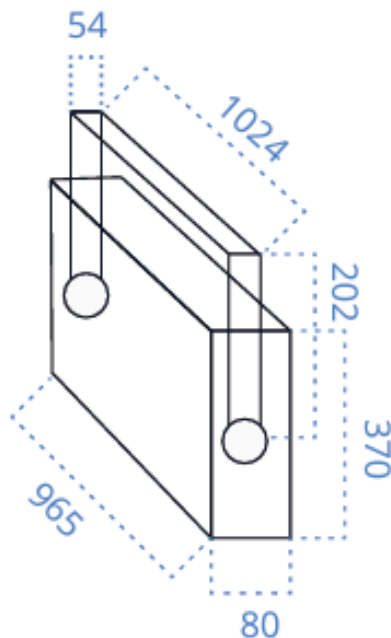
IC4C WIFI DISPLAY

inVision Digital Display

- Full LED Matrix: Displays clear, dynamic symbols and guidance in real time.
- RGB Color Spectrum: Enables color-coded messaging and alerts for enhanced situational awareness.
- Customizable Metrics: Operators can switch between preferred metric displays with a single button press.
- Direct WiFi Control: Seamlessly integrates with the i-C4C ecosystem for real-time data exchange via the i-C4C app.



	inVision
POWER SUPPLY	90-240 VAC - 30W
RESOLUTION	96 x 32 pixels
WEIGHT	14,4 kg / 31,75 lbs
DIMENSIONS HOUSING	1050 x 370 x 80 mm
DIMENSIONS DISPLAY	960 x 320 mm
WORKING TEMPERATURE	-20 °C to +70°C
COMMUNICATION	WIFI / CAN / Ethernet
HOUSING MATERIALS	• Powder coated steel • Water resistant epoxy



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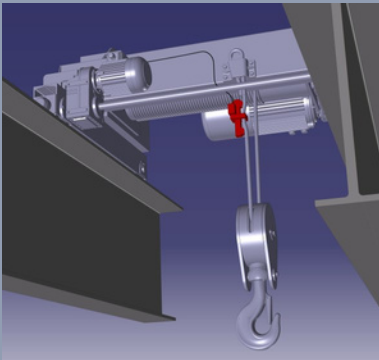
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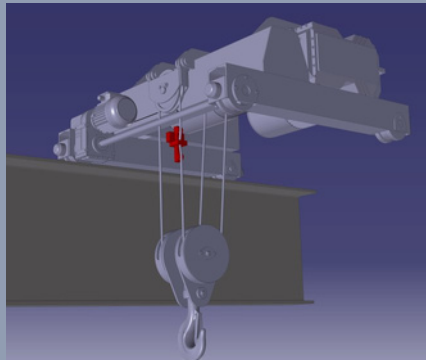
RFQ FORM

Incosa IC4C Load Cell Systems for Wire Rope Hoists

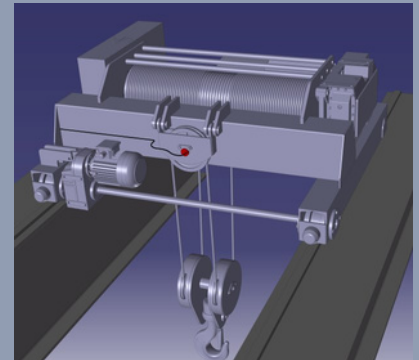
Date: Customer: Contact: Project Ref:	Application notes:
Single hoist or dual hoists: Hoist 1 Capacity (tons): Hoist 1 Reeving (E.g. 4/1, 8/2): Load Cell Type clamp on or load pin: • If clamp on - wire rope diameter: • If load pin - pin diameter and length: Scoreboard required: Y/N	Hoist 2 Capacity (tons): Hoist 1 Reeving (E.g. 4/1,8/2): Load Cell Type: Clamp on or load pin • If clamp on - wire rope diameter: • If load pin - pin diameter and length: Summing required: Y/N



Single Reeved Hoist with
Clamp On Load Cell on Dead
End



Double Reeved Hoist with Clamp
On Load Cell Next to Equalizer
Sheave



Double Reeved Hoist with
Load Pin in Equalizer Sheave



Clamp on load
cell with
integrated CAN
converter



Load pin with
integrated
CAN converter



IC4C panel with
power supply,
terminal strip, plug
and play load cell
connection



Full LED matrix
indoor and outdoor Wi-Fi
scoreboards