



JBOX-LCI

# SMART JUNCTION BOX WITH MONITORING OF THE INTEGRITY OF THE LOAD CELLS

Smart junction box designed for parallel connecting of 2 to 4 load cells to a measurement electronics and ensuring the monitoring of their proper functioning.

ROX-I C



## Features

#### o Control of

- Load Cell out of preset balance range
- Load Cell out of preset operating range
- Low/high excitation
- Open circuit to any load cell on each connection
- Short circuit on any load cell connection
- Internal load cell fault (bridge imbalance)
- o Ensure the positive safety for load-limitation systems based on multiple load cells parallel connected (hoisting devices)
- o Options
  - ABS housing available with Din rail mounting accessories
  - PCB available without ABS housing

## **Applications**

- Load limitation for hoisting equipment based on several load cells
- Industrial weighing with improved reliability

#### **Functions**

- Easy calibration by keys and 4 digits display
- Indication of the signal (mV) of each sensor, the average signal and error message (nr of sensor and type of error)
- Relay normally energized
- Protection of parameters by secret code

Specifications	JBOX-LCI	
Туре	Smart junction box	-
Input range	15mV/V	-
Sensor excitation	10 VDC ± 20%*	-
Display	4 digits	-
Linearity error	< ± 0.0015	% F.S.
Temperature coefficient of zero signal	< ± 0.005	% F.S./10 C
Temperature coefficient of the sensitivity	< ± 0.005	% F.S./10 C
Service temperature range	-40+85	С
Storage temperature range	-40+95	С
Power supply	8.210 VDC	-
IP Rating	IP65	-
Qty of relay	1	-
Relay type	SPCO relay	-
Breaking capacity relay	0.5A / 50 VDC max.	-

<sup>\*:</sup> Provided by measurement electronics / 52 mA (except the consumption of the sensors)

F.S.: full scale - Specifications subject to change without notice

FP-JBOX-LCI\_EN.pdf rev. : 17/07/2014



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