

CRANE-BOY2 CRANE-BOYP2

CRANE OVERLOAD PROTECTION ELECTRONICS

Crane overload protection electronics with 3 set-points and display



CRANE-BOY2 CRANE-BOYP2



Features

- o Easy and intuitive calibration
- o Display of hoisted load
- o Internal monitoring system of load cell integrity and load limitation electronics (fail safe)
- o Test button on front cover
- o Also available without industrial metallic housing (see specific data sheet INDI-BOY2, DISP-BOYP2)

Available option(s)

- Analogue output 4 (0)...20 mA or 0...10 V
- RS-232, RS-485 or fieldbus capabilities
- NEMA 4X / IP67 (transparent protection cover + Option "COVER PAX")
- Stainless steel housing

Application(s) SENSY's CRANE-BOY2 and CRANE-BOYP2 are perfectly designed for the following applications:

- Overload protection and slack rope detection of: overhead cranes, container cranes, gantry cranes.

Function(s)

- Internal survey system of the load cell and electronics (fail safe)
- "TEST" button to check the correct working of the detection system
- Secret code prohibiting programming by unauthorised users
- Intelligent filter with quick reaction to overload while not reacting to transitory non-significant overload,
- Maximum and minimum memories, with reading on 2nd display

Specifications	CRANE-BOY2	CRANE-BOYP2	
Type	Load limiter for single load cell	Load limiter for single load cell	-
Input range	± 24 mVDC / ± 240 mVDC	20 mA (± 25 mA)	-
Sensor excitation	10 VDC @ 125 mA max**	18 VDC @ 50 mA max.	-
Display	1st line : 6 digits (18 mm) / 2nd line : 9 digits (8,9 mm)	1st line : 6 digits (18 mm) / 2nd line : 9 digits (8,9 mm)	-
Accuracy	0.1	0.1	% F.S.*
A/D converter	24 bits	24 bits	-
Converter rate	Up to 160 readings /s	Up to 160 readings /s	-
Service temperature range	0...+50	0...+50	°C
Storage temperature range	-40...+60	-40...+60	°C
Power supply	40...250 VAC, 50/60 Hz (20 VA), 21.6...250 VDC (8 W)	40...250 VAC, 50/60 Hz (20 VA), 21.6...250 VDC (8 W)	-
IP rating	IP65	IP65	-

*F.S. : Full Scale.

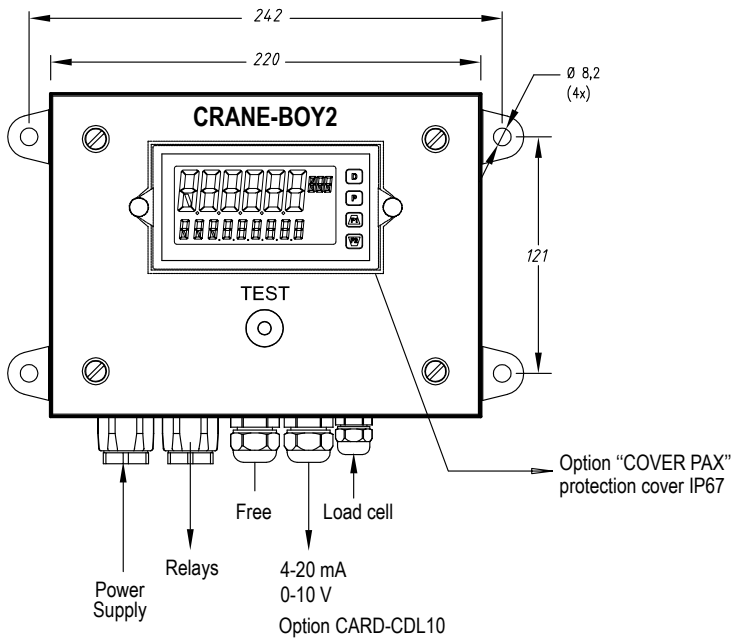
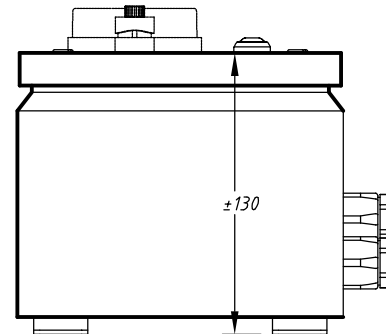
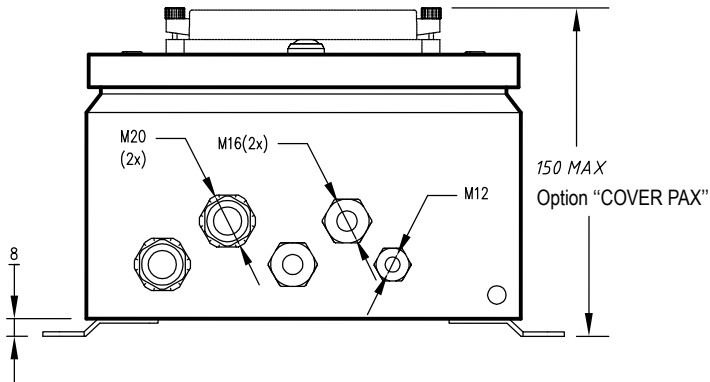
** : 5 VDC @ 65 mA max (jumper selectable).

Specifications subject to change without notice.



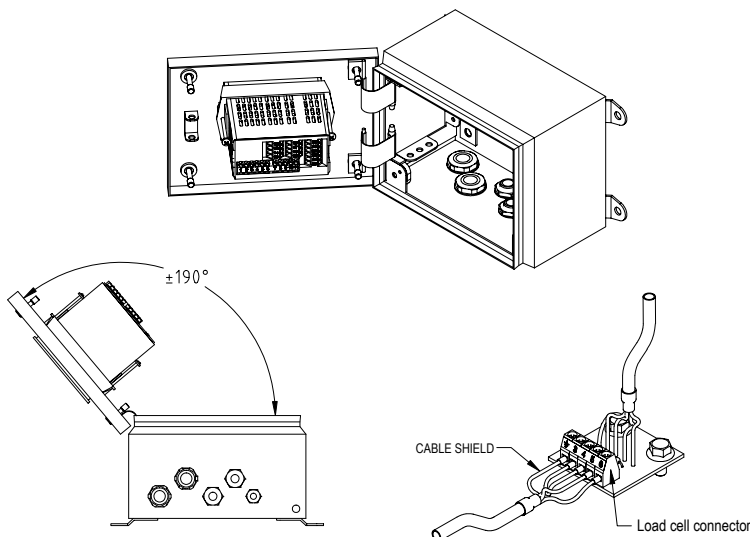
ISO 9001 certified

CRANE-BOY2 > STANDARD DIMENSIONS

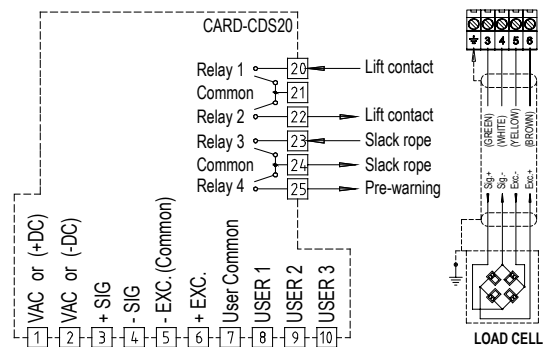


Dimensions in mm

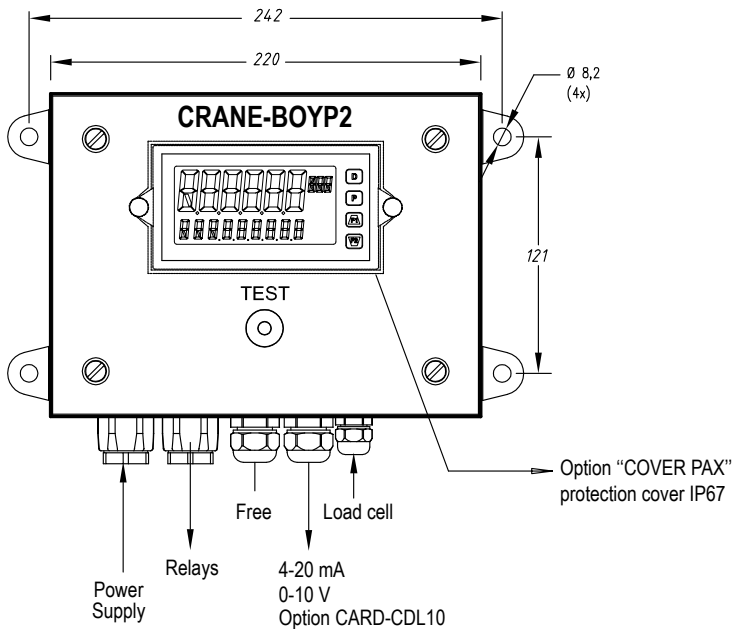
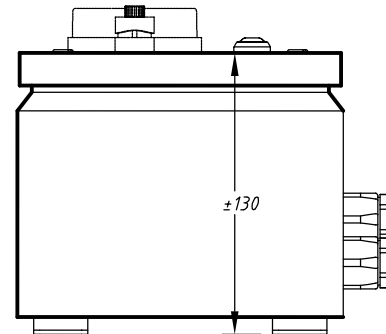
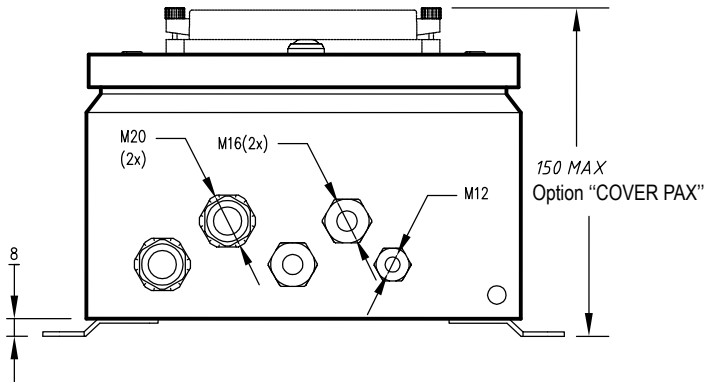
Other views



Terminals

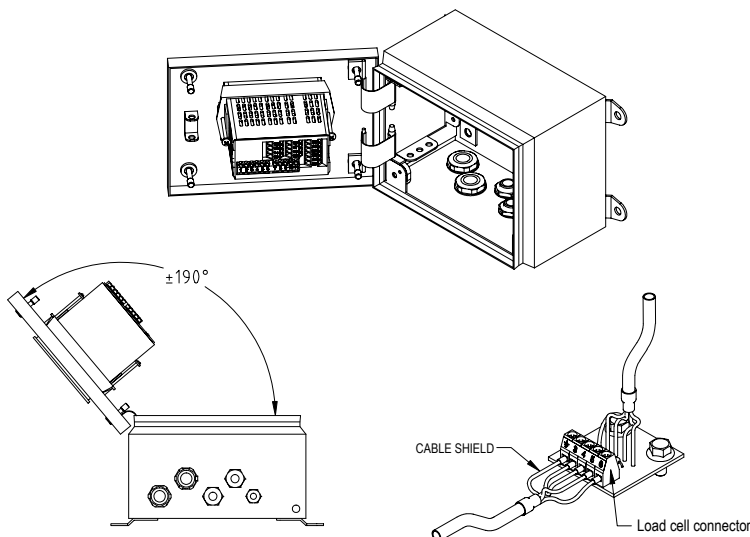


CRANE-BOYP2 > STANDARD DIMENSIONS

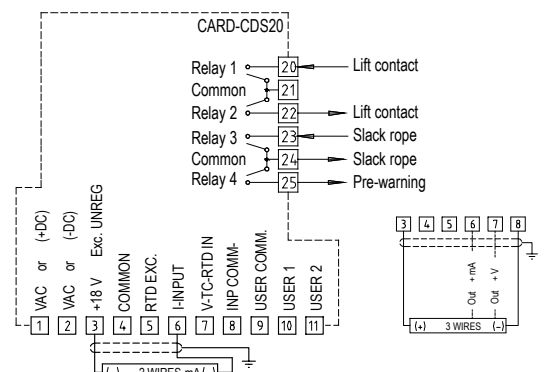


Dimensions in mm

Other views



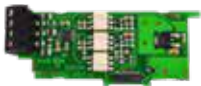
Terminals



OPTIONAL CARDS

Communication cards (max. 1 choice)

CARD-CDC10

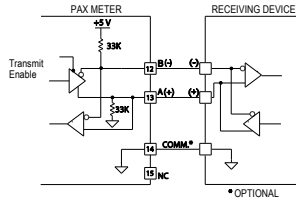


CARD-CDC1C

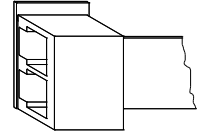
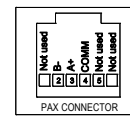


- RS-485 field bus communication interface

CARD-CDC10



CARD-CDC1C



CARD-CDC20

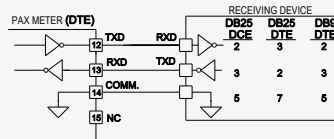


CARD-CDC2C

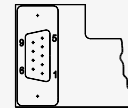


- RS-232 half-duplex communication interface
Available with crew terminals or DB9 connector

CARD-CDC20



CARD-CDC2C



FEMALE
PIN 2 TXD
PIN 3 RXD
PIN 5 COMMON

CARD-CDC30



CARD-CDC40



- DeviceNet communication interface
- Modbus communication interface

CARD-CDC40 is not necessary for models:

INDI-PAXS2 DISP-PAXx2
INDI-BOYS2 DISP-BOYP2
CRANE-BOYS2 CRANE-BOYP2
CRANE-SUMD2 DISP-SUMD2
DISP-PAXDP, DISP-BOYDP, CRANE-BOYDP

CARD-CDC50 / CARD-CDC50-CRANE*



- Profibus-DP (EN 50170) communication interface

* As the CARD-CDC50 is too long for the housing of the CRANE-BOY, the CARD-CDC50-CRANE is supplied with a spacer to be insert between the front of the electronics and the housing.

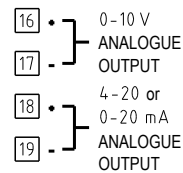
Analogue output card

CARD-CDL10



- Analogue output signal: 0-20 mA, 4-20 mA, 0-10 VDC

CARD-CDL10



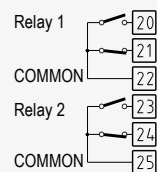
Relay cards (max. 1 choice)

CARD-CDS10 & CARD-CDS20

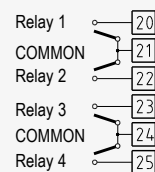


- 2 or 4 set-points activating each an independent relay

CARD-CDS10



CARD-CDS20



Cards already included

- Analogue output card:

CARD-CDL10

- Relay card:

CARD-CDS20 (4 set-points)

- Models:

CABIN-2xB1SUMD; CABIN-4xB1SUMD

- Models:

INDI-BOY DISP-BOYP; CRANE-BOY CRANE-BOYP; DISP-BOYDP
CRANE-BOYDP; CRANE-SUMD DISP-SUMD; CRANE-BOY-Exd;
CABIN-2xB1SUMD; CABIN-4xB1SUMD.