

DISP-BOYDP CRANE-BOYDP

LOAD LIMITATION ELECTRONICS FOR 2 HOISTING DEVICES

Electronics ensuring the individual limitation of loads lifted by 2 hoisting systems and also the limitation of a function of these loads (sum, difference, multiplication, ratio)

DISP-BOYDP



Features

- o Easy and intuitive calibration
- o Display of hoisted loads and input signals
- o Internal monitoring system of the integrity of the load cells and the load limitation electronic (positive safety)
- o TEST button on front cover
- o Options
 - 4(0)...20mA or 0...10V analog output
 - RS232, RS485, USB or fieldbus capabilities
 - NEMA 4X/IP65
 - Rail DIN adaptor
 - Power supply : 48VAC (only for 85...230 VAC version)
 - Also available with industrial metallic housing --> see CRANE-BOYDP products

Applications

Load limitation on

- overhead cranes
- container cranes
- gantry cranes

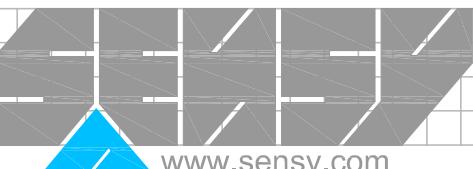
Functions

- Internal survey system of the load cell and the electronic (positive safety)
- TEST button in order to check the good working of the detection system.
- Secret code prohibiting programming by unauthorized persons.
- Intelligent filter with quick reaction to quick overload while not reacting on transitory non significant overload.
- Maximum and minimum memories, Smart filter,
- A math function (+, -, * or %) can be performed on the two signals.

Specifications	DISP-BOYDP	DISP-BOYDP-24	CRANE-BOYDP	CRANE-BOYDP-2
Type	Load limiter for dual 4..20mA load cell			
Input range	2 x 4...20mA	2 x 4...20mA	2 x 4...20mA	2 x 4...20mA
Sensor excitation	18VDC ± 20% @70mA max. per input channel	18VDC ± 20% @70mA max. per input channel	18VDC ± 20% @70mA max. per input channel	18VDC ± 20% @70mA max. per input channel
Display	5 digits (14.2 mm)			
Accuracy	0.1	0.1	0.1	0.1
A/D converter	16 bit	16 bit	16 bit	16 bit
Converter rate	Up to 20 readings /s			
Service temperature range	0...+50	0...+50	0...+50	0...+50
Storage temperature range	-40...+60	-40...+60	-40...+60	-40...+60
Power supply	85...250 VAC (21VA)	18...36 VDC (13W), 24VAC (16VA)	85...250 VAC (15VA)	18...36 VDC (13W), 24VAC (16VA)
IP Rating	IP54*	IP54*	IP54	IP54
Qty of relay	3	3	3	3
Relay type	Form A - potential free			
Breaking capacity relays	3A @250VAC or 30VDC			

* : IP rating for front panel only

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



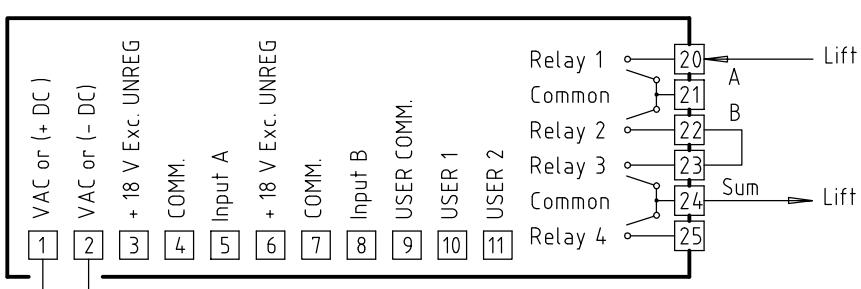
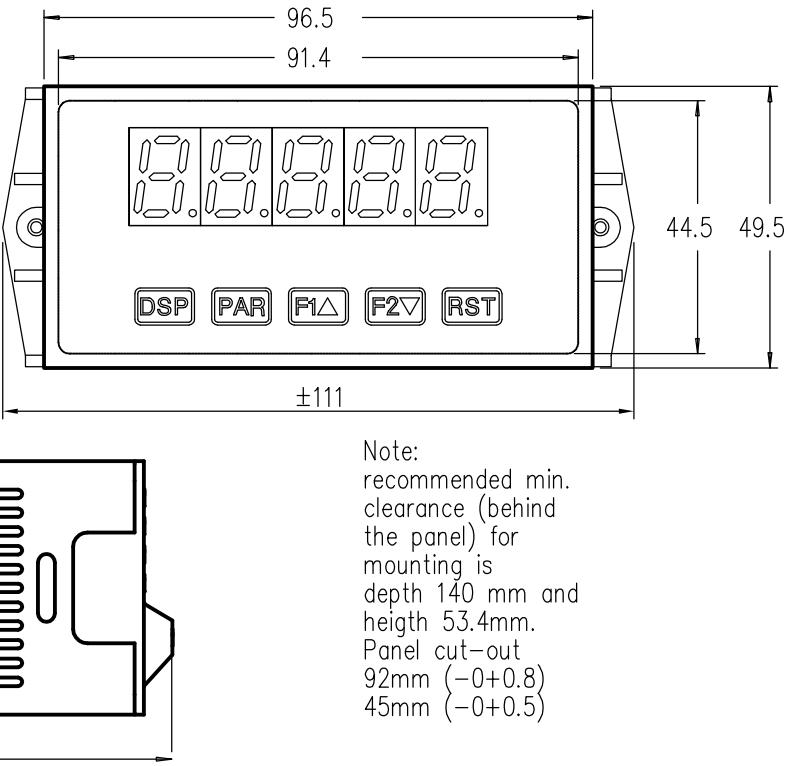
LOAD LIMITER

model DISP-BOYDP

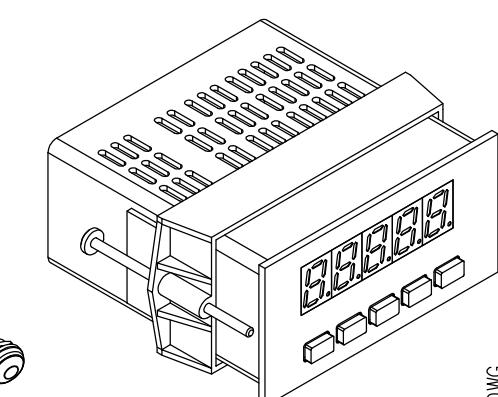
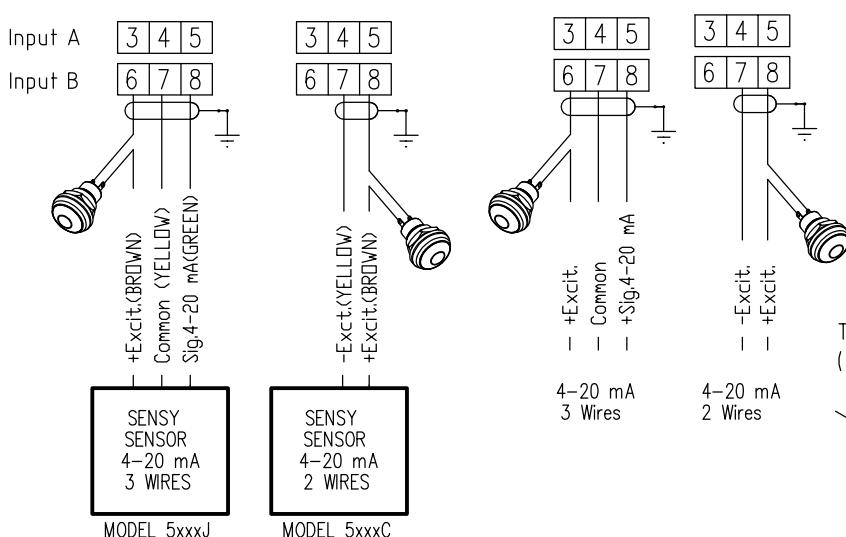


Power supply : 85 to 250 VAC / 10-30 VDC IP54
 DISP PAXDP : 85 to 250 VAC - Input 4-20 mA - 0/10 V - Ohms
 " " PAXDP-DC: 10-30 VDC - "

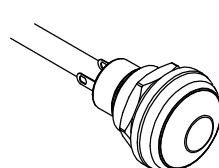
Options :
 CARD CDL10 = 4-20 mA / 0-10 V output
 CARD CDC20 = RS232 output
 CARD CDC10 = RS485 output
 CARD CDS20 = 4 Relays output
 CARD CDS10 = 2 Relays output
 F= Splashproof Cover IP 65

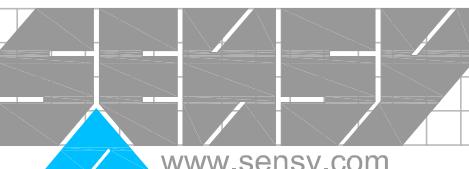


Relay 1= Overload set point A
 Relay 2= Overload set point B
 Relay 3= Overload set point A+B (Sum)
 Relay 4= Not Applied



TEST BUTTON (delivered)
(NC Contact)





LOAD LIMITER

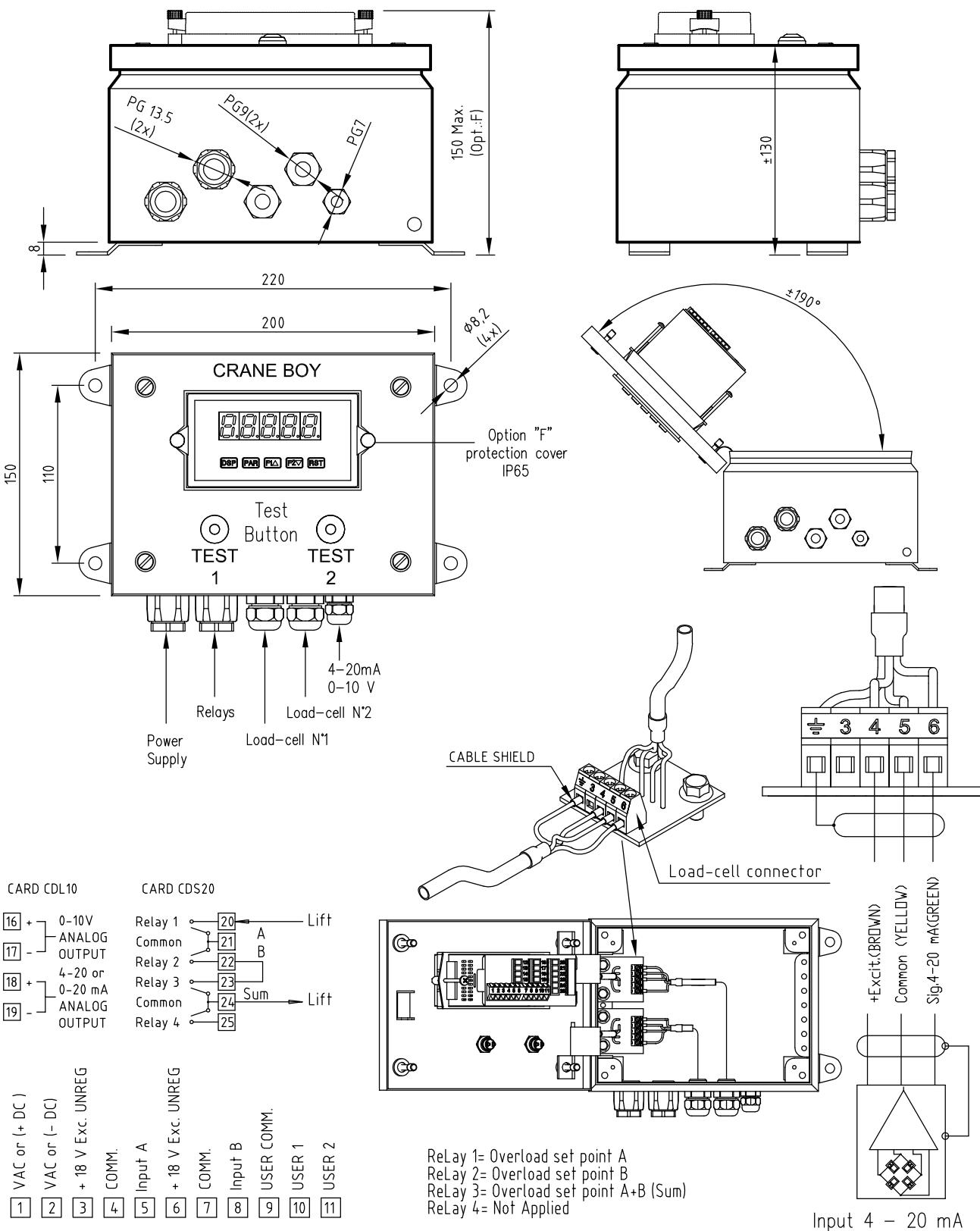
model CRANE-BOYDP



Power supply : 48 to 250 VAC / 24 VAC / 10-30 VDC IP54

CRANE BOY : 48 to 250 VAC - Strain gages input
 " " BOY-24: 24 VAC - " "
 " " BOY-DC: 10-30 VDC - " "
 " " BOYP : 48 a 250 VAC - 4-20 mA input
 " " BOYP24: 24 VAC - " "
 " " BOYPD: 10-30 VDC - " "

Options :
 CARD CDL10 = 4-20 mA / 0-10 V output
 CARD CDC20 = RS232 output
 CARD CDC10 = RS485 output
 F= Splashproof Cover IP 65





CARD-CDC10

- RS485 field bus communication interface
- Available with crew terminals or DB9 connector



CARD-CDC20

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



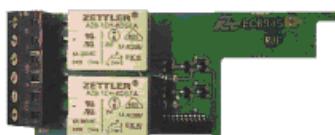
CARD-CDC50

- Profibus-DP (EN 50170) communication interface



CARD-CDL10

- Analog output signal: 0-20 mA, 4-20 mA, or 0-10 VDC (*)



CARD-CDS10

& CARD-CDS20 (already included in load limitation electronics)

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



It is possible to install up to 3 different option cards in the same panel meter. These options have to be of different type.

Ex. : CARD-CDS-20 + CARD-CDL10 + CARD-CDC20 is available

CARD-CDS20 + CARD-CDS10 or CARD-CDC10 + CARD-CDC20 is not available

Full technical documentation available on request