

CRANE-SUMD2 DISP-SUMD2

CRANE OVERLOAD PROTECTION ELECTRONICS FOR THE SUM OF SEVERAL CHANNELS

CRANE-SUMD2 and DISP-SUMD2 are designed to limit the sum of the load of several hoisting devices already equipped with their own load limitation device.



CRANE-SUMD2 / DISP-SUMD2



Features

- o Type:
 - CRANE-SUMD2: with industrial metallic housing
 - DISP-SUMD2: to be installed on a front panel
- o Connected to the analogue output (4...20 mA) of the load limitation electronics BRIDGE-BOY, CRANE-BOY(2), INDI-BOY(2), DISP-BOYP(2), etc. (CARD-CDL10 option)
- o Easy and intuitive calibration
- o Display of hoisted load and input signal

Available option(s)

- analogue output 4(0)...20 mA / 0...10 V
- RS-232, RS-485 or fieldbus output
- stainless steel housing
- NEMA 4X / IP67 (transparent protection cover - Option "COVER PAX")
- rail DIN adaptor

Application(s)

SENSY's CRANE-SUMD2 and DISP-SUMD2 are perfectly designed for the following applications:

Overload protection of the sum of loads, up to 8 independent hoists (e.g.: 2 trolleys each limited to 10 t installed on an EOT crane limited to 15 t).

Function(s)

- Internal survey system of input signal and electronics (fail safe)
- "TEST" buttons 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

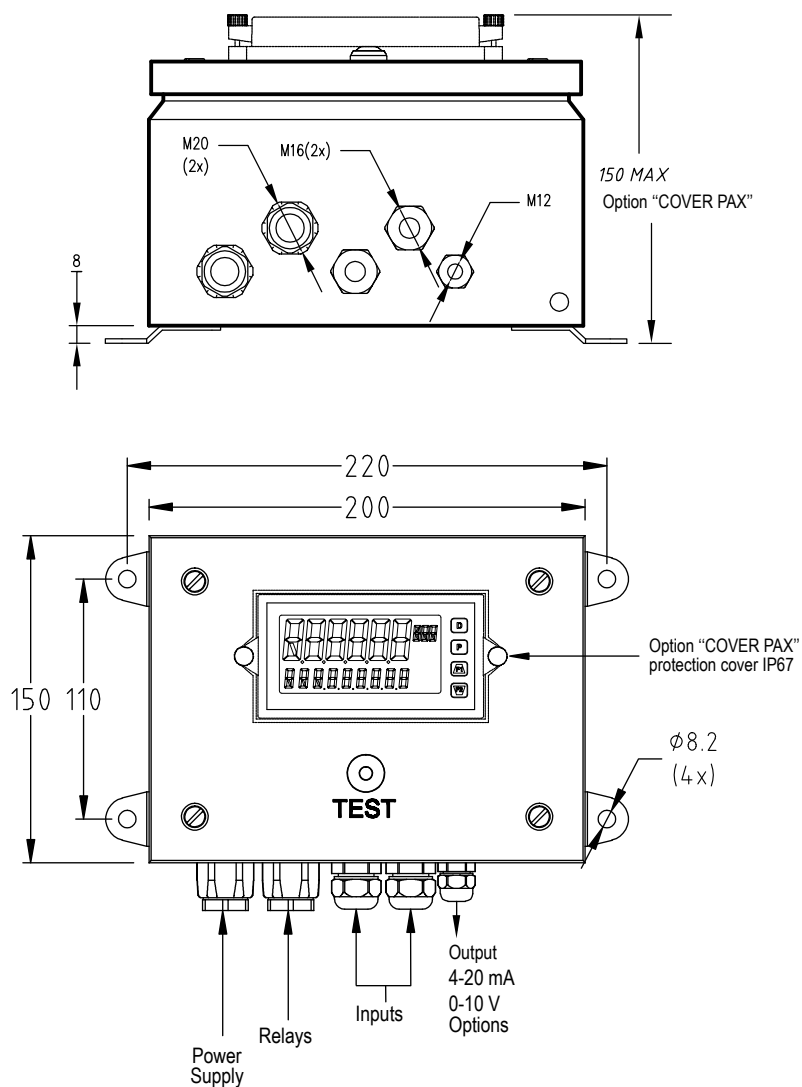
Specifications	CRANE-SUMD2	DISP-SUMD2	
Type	Load limiter of the sum	Load limiter of the sum	-
Input range	±200 mA	200 mA	-
Display	1st line : 6 digits (18 mm) / 2nd line : 9 digits (8,9 mm)	1st line : 6 digits (18 mm) / 2nd line : 9 digits (8,9 mm)	-
Accuracy	0.1	0.1	% F.S.*
A/D converter	24 bits	24 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)	-
Qty of relay	3	3	-
Relay type	"Form A"- potential free	Form A - potential free	-
Contact rating	3 A @ 250 VAC / 30 VDC	3 A @ 250 VAC or 30 VDC resistive load	-
IP rating	IP65	IP20 / IP65**	-

*F.S. : Full Scale.

** : IP rating for front panel only.

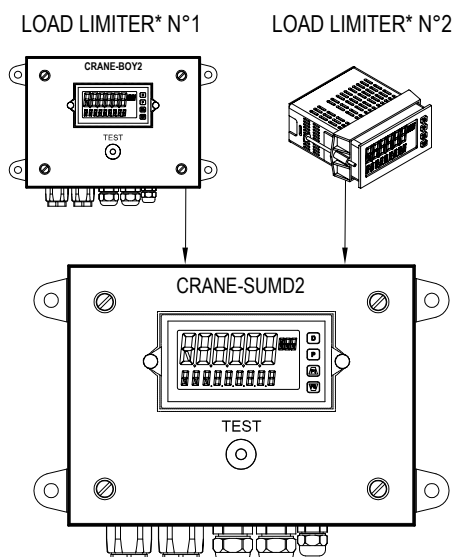
Specifications subject to change without notice.

CRANE-SUMD2 > STANDARD DIMENSIONS

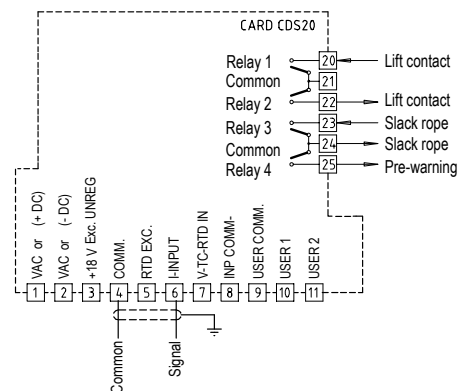


Dimensions in mm

Other view

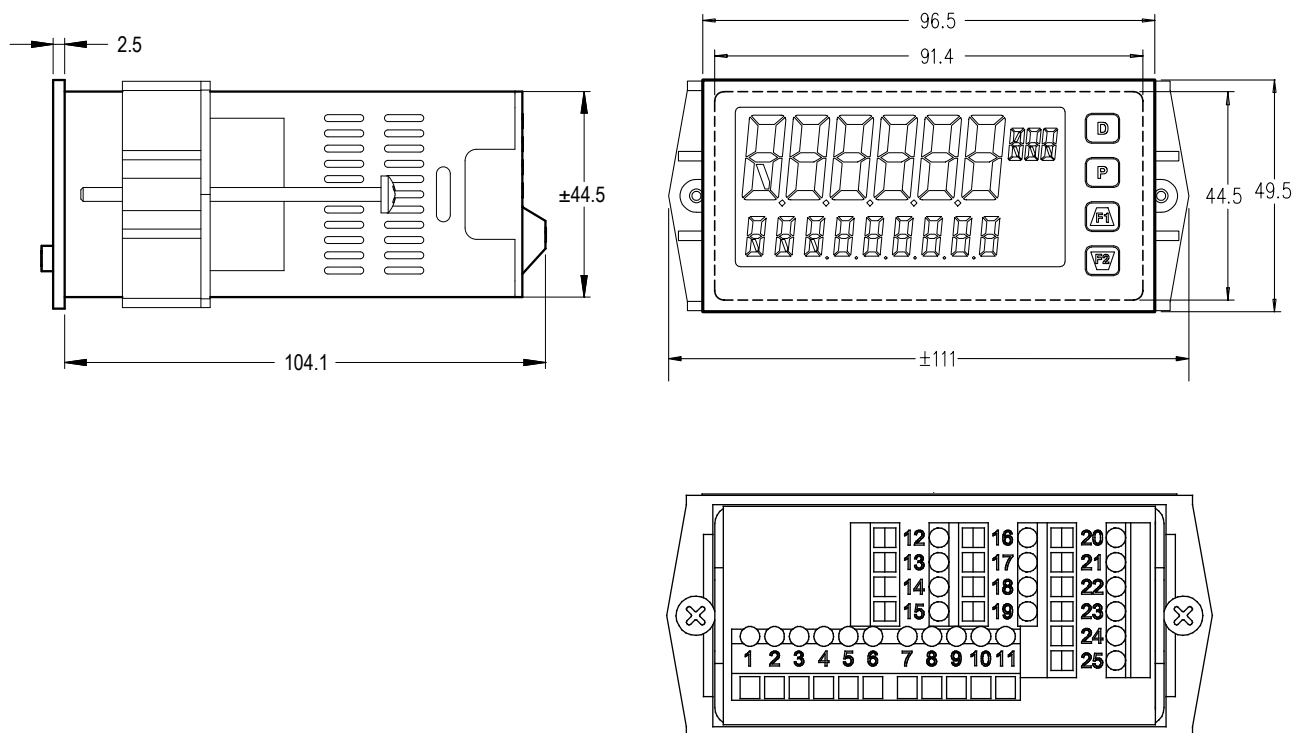


Terminals



*: INDI-BOY2, DISP-BOY2, CRANE-BOY2, ...

DISP-SUMD2 > STANDARD DIMENSIONS



Note: recommended min. clearance (behind the panel) for mounting is 140 mm deep and 53.4 mm high. Panel cut-out 92 mm (-0+0.8) 45 mm (-0+0.5)

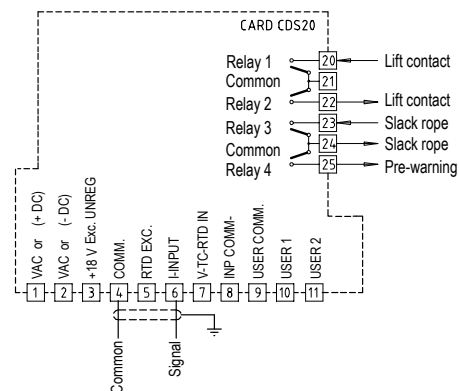
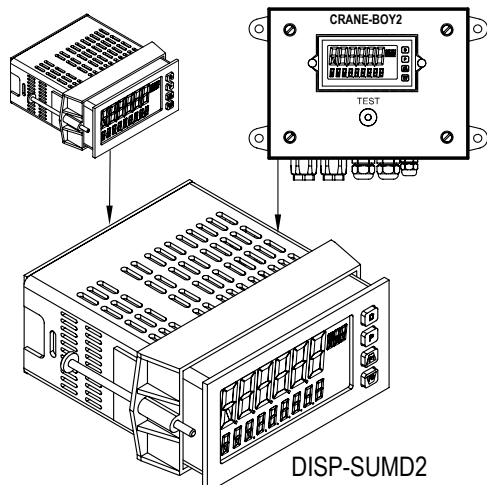
Dimensions in mm

Other view

Terminals

LOAD LIMITER* N°1

LOAD LIMITER* N°2



*: INDI-BOY2, DISP-BOY2, CRANE-BOY2, ...

OPTIONAL CARDS

Communication cards (max. 1 choice)

CARD-CDC10

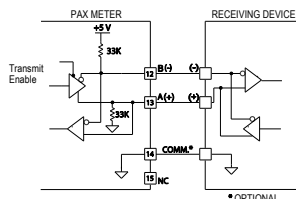


- RS-485 field bus communication interface

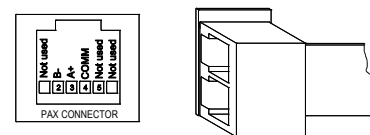
CARD-CDC1C



CARD-CDC10



CARD-CDC1C



CARD-CDC20

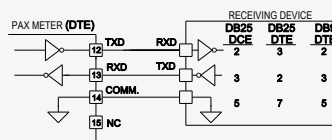


- RS-232 half-duplex communication interface
Available with crew terminals or DB9 connector

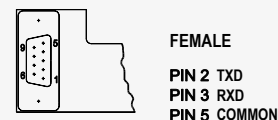
CARD-CDC2C



CARD-CDC20



CARD-CDC2C



CARD-CDC30



- DeviceNet communication interface

CARD-CDC40



- 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.

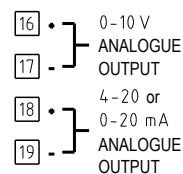
Analogue output card

CARD-CDL10



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

CARD-CDL10



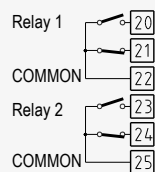
Relay cards (max. 1 choice)

CARD-CDS10 & CARD-CDS20

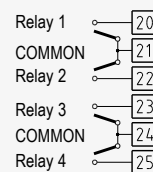


- 2 or 4 set-points activating each an independent relay

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.