

## CRANE-SUMD DISP-SUMD

## CRANE OVERLOAD PROTECTION ELECTRONICS FOR THE SUM OF SEVERAL CHANNELS

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



CRANE-SUMD / DISP-SUMD



### Features

- o Type:
  - CRANE-SUMD: with industrial metallic housing
  - DISP-SUMD: to be installed on the front panel
- o Connected to the analogue output (4...20 mA) of the load limitation electronics BRIDGE-BOY, CRANE-BOY, INDI-BOY, DISP-BOYP, 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
- power supply: 48 VAC / 24 VDC (see CRANE-SUMD2 and DISP-SUMD2 products)
- stainless steel housing
- NEMA 4X / IP67 (transparent protection cover - Option "COVER PAX")
- rail DIN adaptor

### Application(s)

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

- CRANE-SUMD and DISP-SUMD are designed to overload protection of the sum of loads, of 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

Specifications	CRANE-SUMD	CRANE-SUMD12	DISP-SUMD	DISP-SUMD12	
Type	Load limiter of the sum	Load limiter of the sum	Load limiter of the sum	Load limiter of the sum	-
Input range	±20 mA, ±200 mA	±20 mA, ±200 mA	±20 mA, ±200 mA	±20 mA, ±200 mA	-
Display	5 digits (14.2 mm)	5 digits (14.2 mm)	5 digits (14.2 mm)	5 digits (14.2 mm)	-
Accuracy	0.1	0.1	0.1	0.1	% F.S.*
Service temperature range	0...+50	0...+50	0...+50	0...+50	°C
Storage temperature range	-40...+60	-40...+60	-40...+60	-40...+60	°C
Power supply	85...250 VAC, 50/60 Hz (15 VA)	11...36 VDC (11 W) 24 VAC (15 VA)***	85...250 VAC, 50/60 Hz (15 VA)	11...36 VDC (11 W) 24 VAC (15 VA)***	-
Qty of relay	3	3	3	3	-
Relay type	Form A - potential free	Form A - potential free	Form A - potential free	Form A - potential free	-
Contact rating	3 A @ 250 VAC / 30 VDC Resistive load	3 A @ 250 VAC / 30 VDC Resistive load	3 A @ 250 VAC or 30 VDC Resistive load	3 A @ 250 VAC or 30 VDC Resistive load	-
IP rating	IP54	IP54	IP54**	IP54**	-

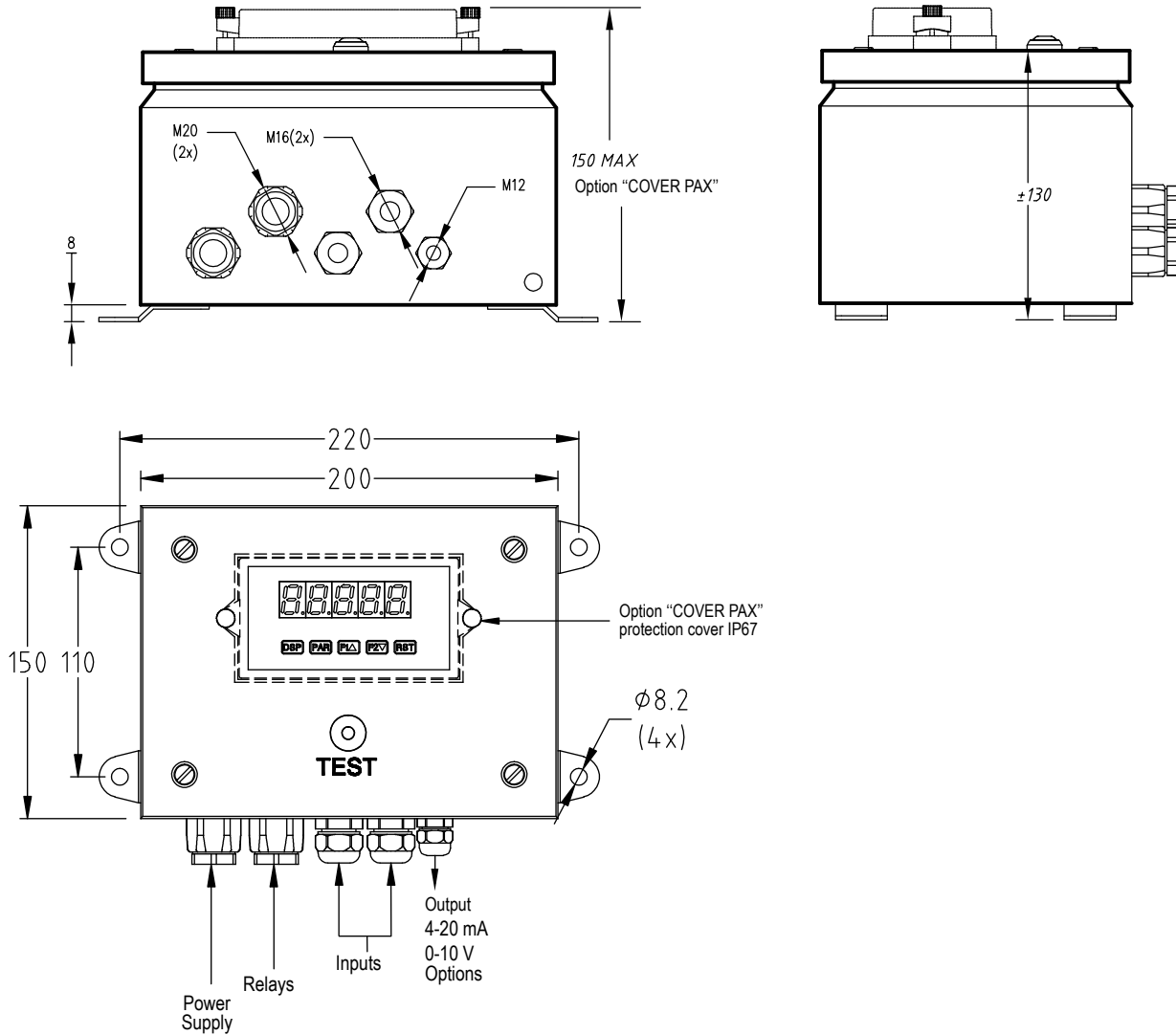
\*F.S. : Full Scale.

\*\* : IP rating for front panel only.

\*\*\* : we recommend the CRANE-SUMD2 and DISP-SUMD2 for use in 24 VDC.

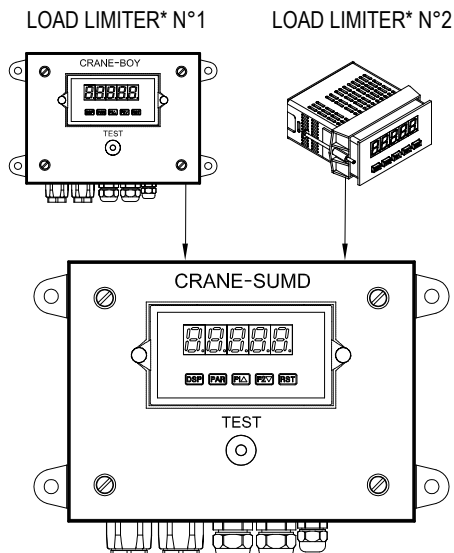
Specifications subject to change without notice.

CRANE-SUMD > STANDARD DIMENSIONS

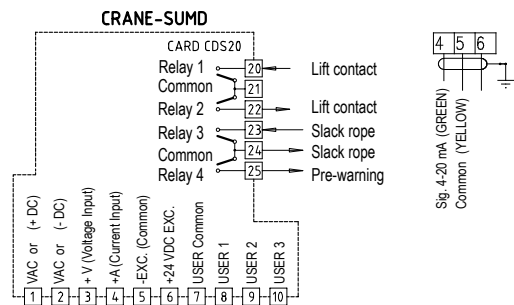


Dimensions in mm

Other view

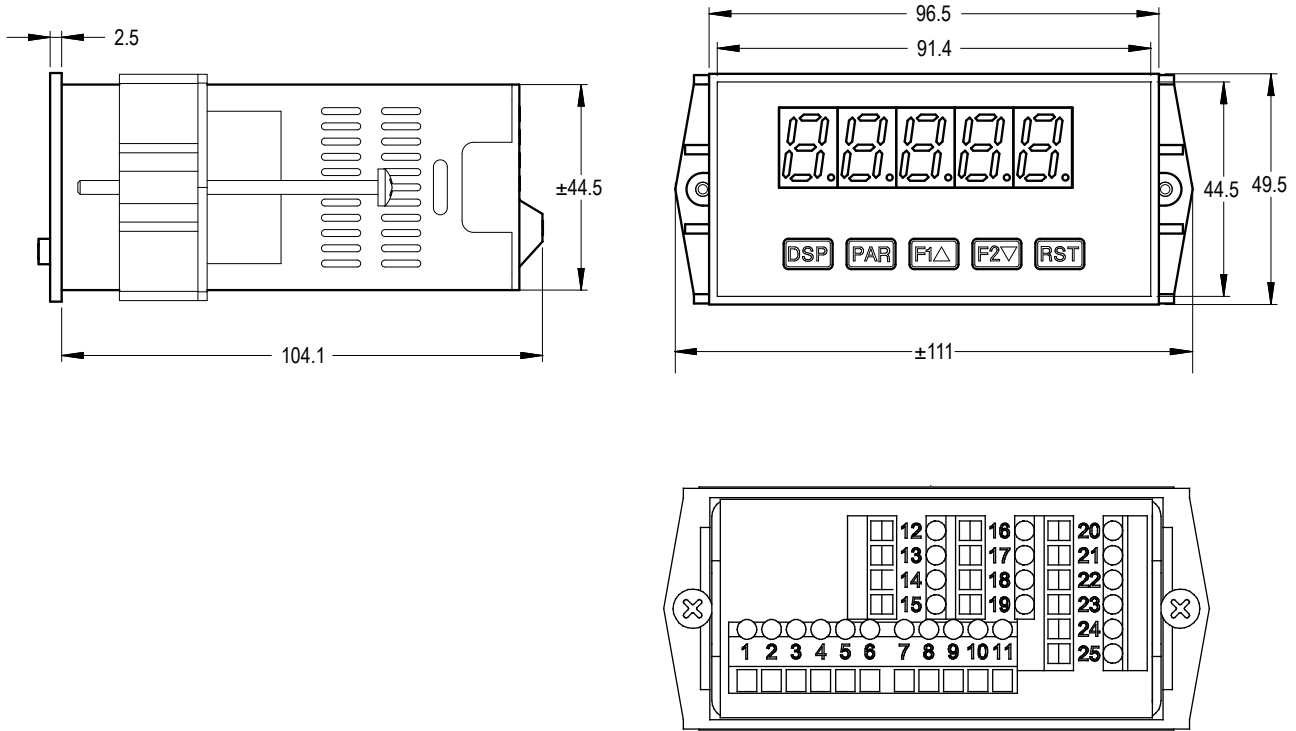


Terminals



\*: INDI-BOY, DISP-BOY, CRANE-BOY, ...

↳ DISP-SUMD > 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)

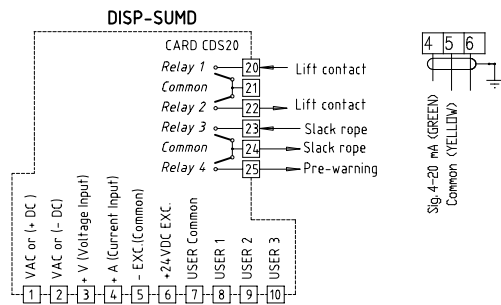
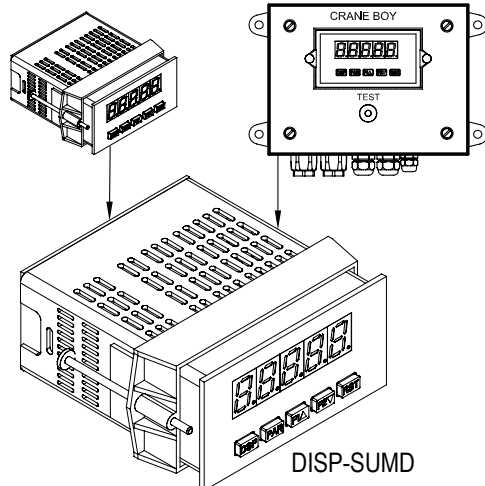
Dimensions in mm

Other view

Terminals

LOAD LIMITER\* N°1

LOAD LIMITER\* N°2

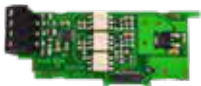


\*: INDI-BOY, DISP-BOY, CRANE-BOY, ...

# OPTIONAL CARDS

## Communication cards (max. 1 choice)

### CARD-CDC10

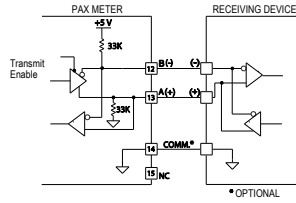


### CARD-CDC1C

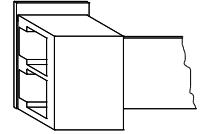
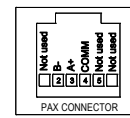


- RS-485 field bus communication interface

### CARD-CDC10



### CARD-CDC1C



### CARD-CDC20

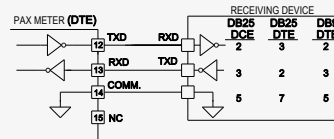


### CARD-CDC2C

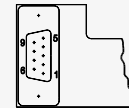


- RS-232 half-duplex communication interface  
Available with crew terminals or DB9 connector

### 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.

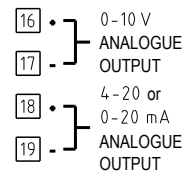
## Analogue output card

### CARD-CDL10



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

### CARD-CDL10



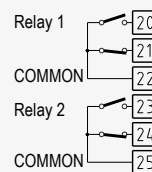
## Relay cards (max. 1 choice)

### CARD-CDS10 & CARD-CDS20

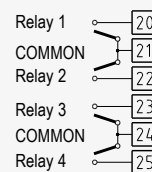


- 2 or 4 set-points activating each an independent relay

### 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.