

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 signals

Available option(s)

- analogue output 4(0)...20 mA / 0...10 V
- RS-232, RS-485 or fieldbus output
- stainless steel housing
- NEMA 4X/IP65 (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

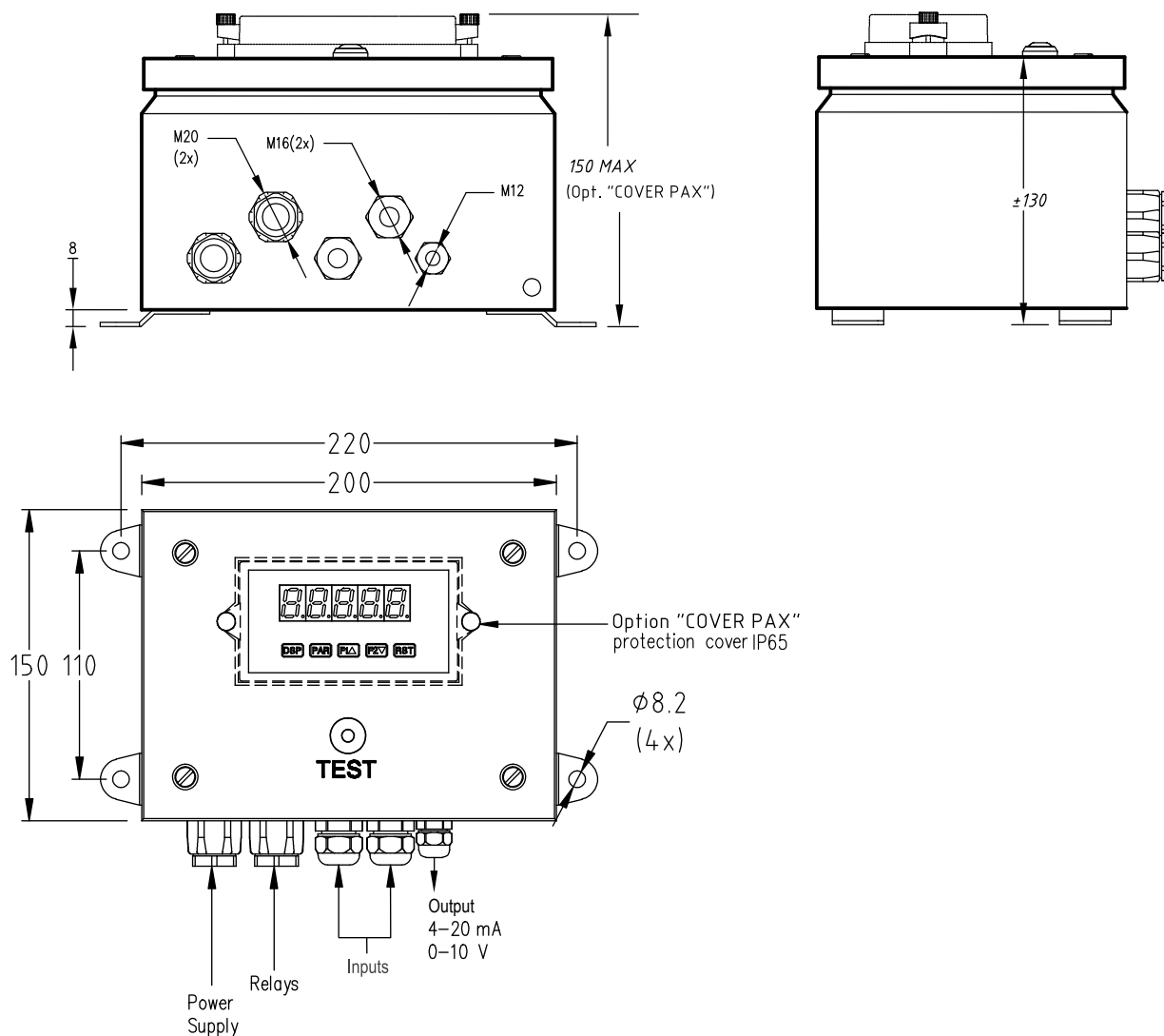
Specifications	CRANE-SUMD	CRANE-SUMD24	DISP-SUMD	DISP-SUMD24	
Type	Load limiter of the sum	Load limiter of the sum	Load limiter of the sum	Load limiter of the sum	-
Input range	±20 mA, ±200 mA	±20 mA, ±200 mA	±20 mA, ±200 mA	±20 mA, ±200 mA	-
Display	5 digits (14.2 mm)	5 digits (14.2 mm)	5 digits (14.2 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	3A @ 250VAC or 30 VDC Resistive load	-
IP rating	IP54	IP54	IP54**	IP54**	-

*F.S. : Full Scale.

** : IP rating for front panel only.

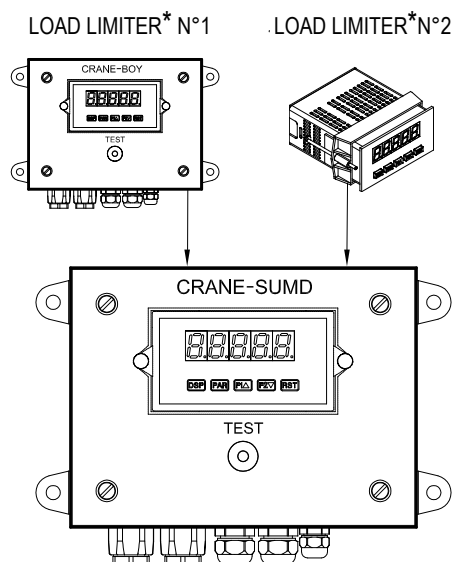
Specifications subject to change without notice.

CRANE-SUMD > STANDARD DIMENSIONS

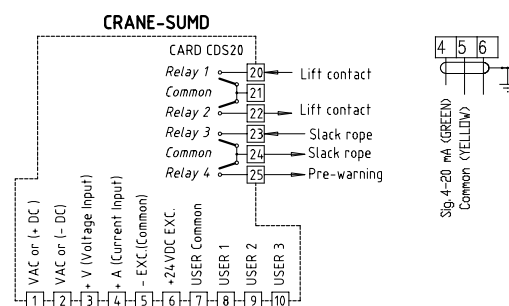


Dimensions in mm

Other view

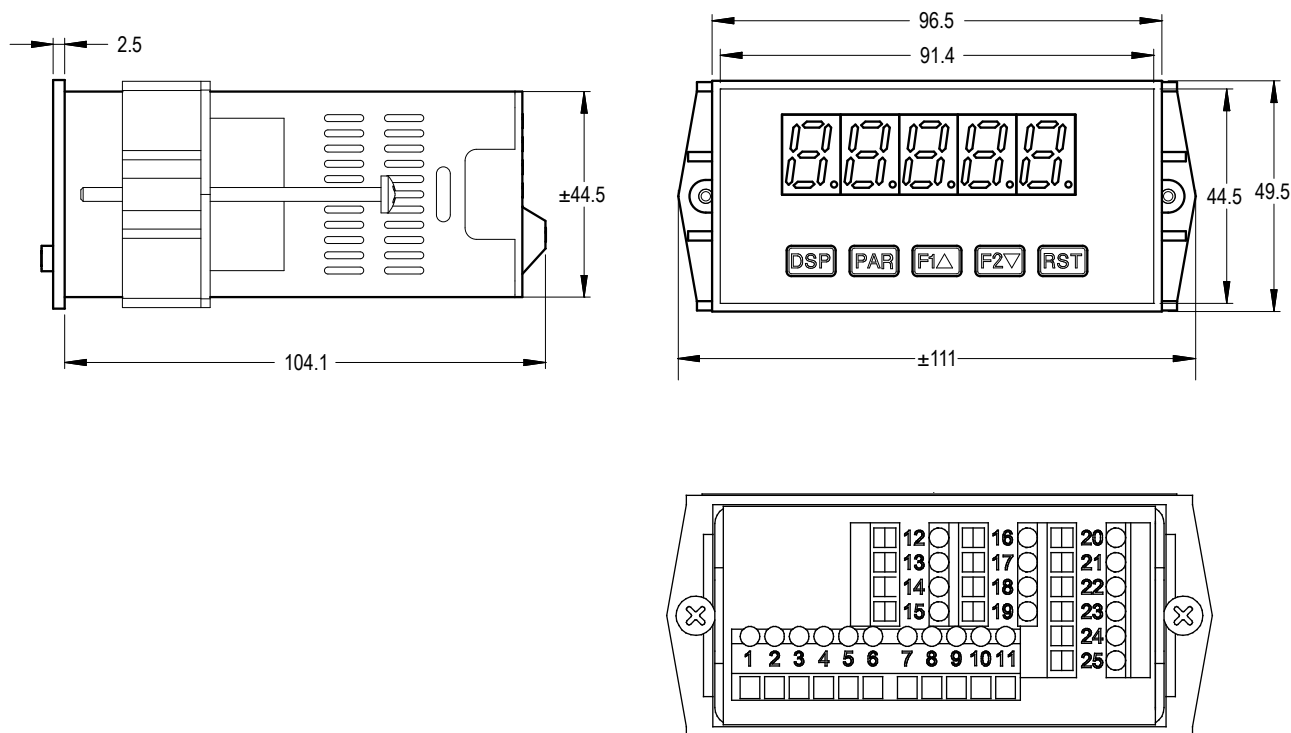


Terminals



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

DISP-SUMD > STANDARD DIMENSIONS



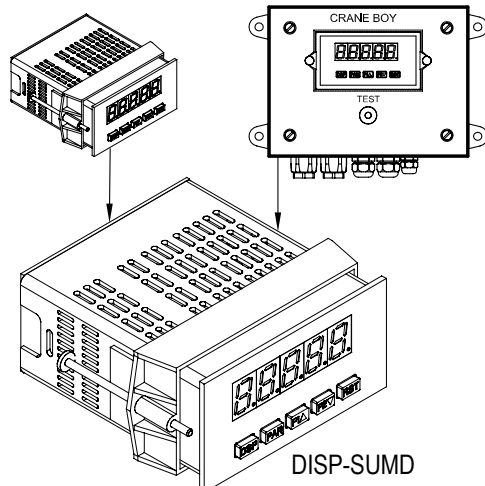
Note: recommended min. clearance (behind the panel) for mounting is 140 mm deep and 53.4 mm high. Panel cut-out 92 mm (-0+0.8) 45 mm (-0+0.5)

Dimensions in mm

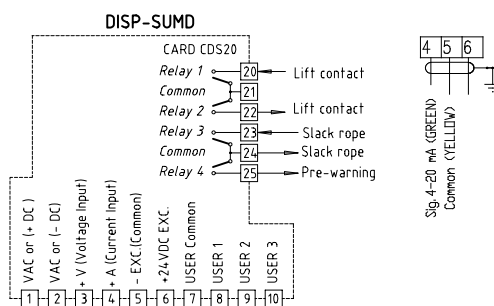
Other view

LOAD LIMITER* N°1

LOAD LIMITER* N°2



Terminals



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

OPTION CARDS

Communication cards (max. 1 choice)

CARD-CDC10

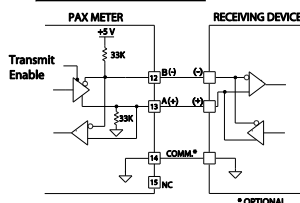


CARD-CDC1C

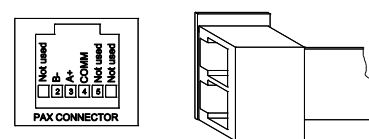


- RS-485 field bus communication interface
Available with crew terminals or DB9 connector

CARD-CDC10



CARD-CDC1C



CARD-CDC20

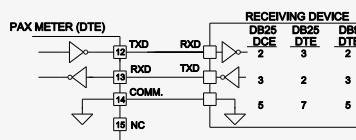


CARD-CDC2C

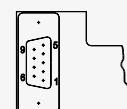


- RS-232 half-duplex communication interface
Available with crew terminals or DB9 connector

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-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 inserted between the front of the electronics and the housing.

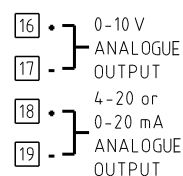
Analogue output card

CARD-CDL10



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

CARD-CDL10



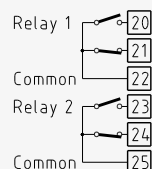
Relay cards (max. 1 choice)

CARD-CDS10 & CARD-CDS20

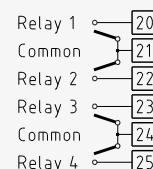


- 2 or 4 set-points activating each an independent relay

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.