

CABIN-2xB1SUMD

CRANE OVERLOAD PROTECTION ELECTRONICS FOR 2 CHANNELS + SUM

The CABIN-2IB1SUMD and CABIN-2DB1SUMD are crane overload protection systems designed to manage 2 hoisting devices as well as the sum of the loads.



CABIN-2xB1SUMD



Features

- x = input:
 - I: mV/V or
 - D: process input 4(0)...20 mA
- o Display of hoisted loads and input signals
- o Monitoring system of load cell integrity and electronics (fail safe)

Available option(s)

- analogue output 4(0)...20 mA or 0...10 V
- RS-232, RS-485, USB or fieldbus capabilities
- NEMA 4X /IP67 (transparent protection cover - option "COVER PAX")
- power supply: 48 VAC / 24 VDC (see CABIN-2xB1SUMD2 products)
- stainless steel cabinet

Application(s)

SENSY's CABIN-2xB1SUMD is perfectly designed for the following applications:

The 2IB1SUMD and 2DB1SUMD provide housing for integrating 2 x INDI-BOY or 2 x DISP-BOYP associated with 1 x DISP-SUMD. They are designed to ensure overload protection and slack rope detection of 2 independent hoists as well as the sum of these loads.

Function(s)

- Internal survey system of load cells 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
- Parameters and functions configurable at user level

Specifications	CABIN-2IB1SUMD	CABIN-2IB1SUMD12	CABIN-2DB1SUMD	CABIN-2DB1SUMD12	
Type	Load limiter for 2 load cells	Load limiter for 2 load cells	Load limiter for 2 load cells	Load limiter for 2 load cells	-
Input range	± 24 mVDC ± 240 mVDC	± 24 mVDC / ± 240 mVDC	20 mA (-2 to +26 mA)	20 mA (-2 to +26 mA)	-
Sensor excitation	10 VDC @ 125 mA (max)**	10 VDC @ 125 mA (max)**	24 VDC ± 5 % @ 50 mA (max)	24 VDC ± 5 % @ 50 mA (max)	-
Display	3 x 5 digits (14.2 mm)	3 x 5 digits (14.2 mm)	3 x 5 digits (14.2 mm)	3 x 5 digits (14.2 mm)	-
Accuracy	0.5	0.5	0.5	0.5	% 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 (45 VA)	11...36 VDC (33 W) 24 VAC (45 VA)***	85...250 VAC, 50/60 Hz (45 VA)	11...36 VDC (33 W) 24 VAC (45 VA)***	-
Qty of relay	2 x 3 + 4	2 x 3 + 4	2 x 3 + 4	2 x 3 + 4	-
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	3 A @ 250 VAC / 30 VDC	3 A @ 250 VAC / 30 VDC	3 A @ 250 VAC / 30 VDC	-
IP rating	IP54	IP54	IP54	IP54	-

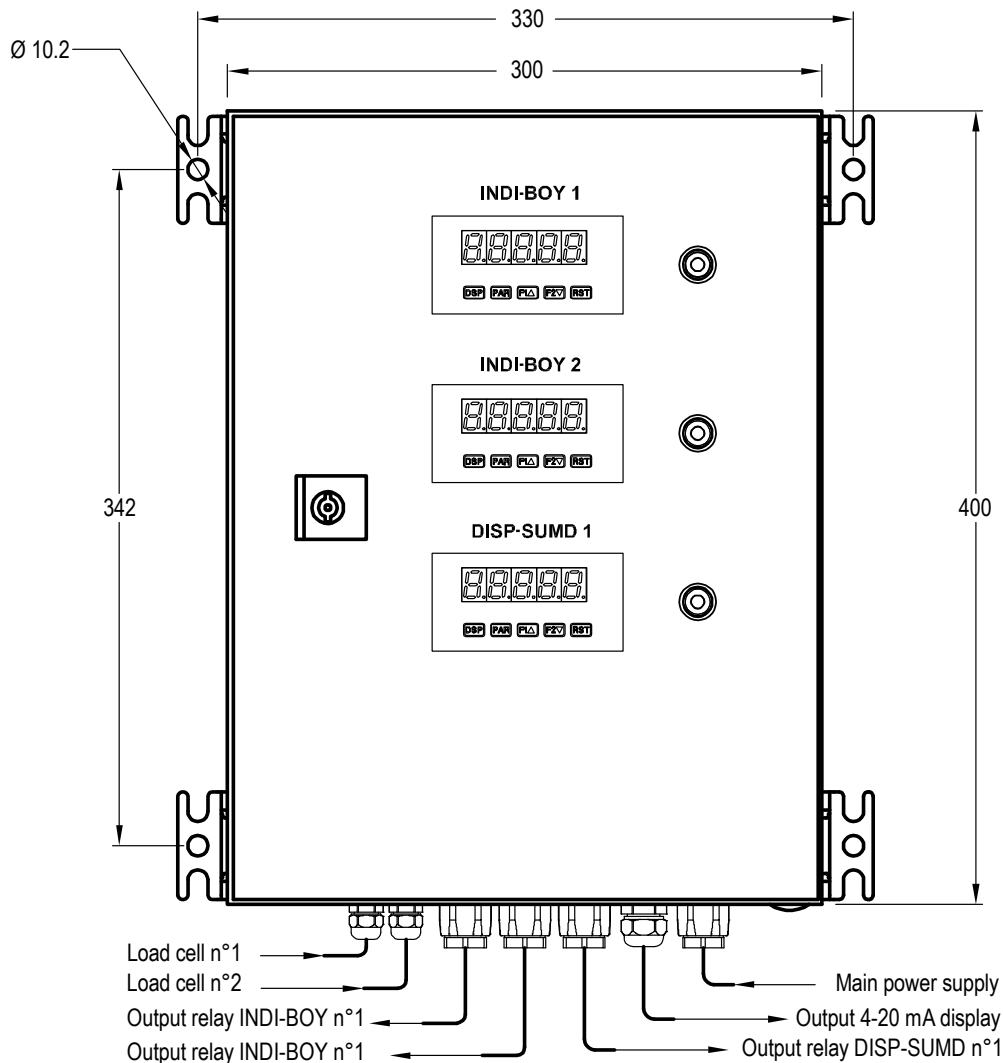
*F.S. : Full Scale.

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

*** : we recommend the CABIN-2xB1SUMD2 for use in 24 VDC.

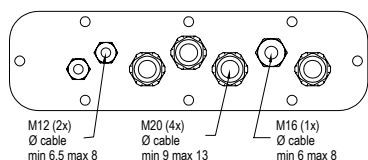
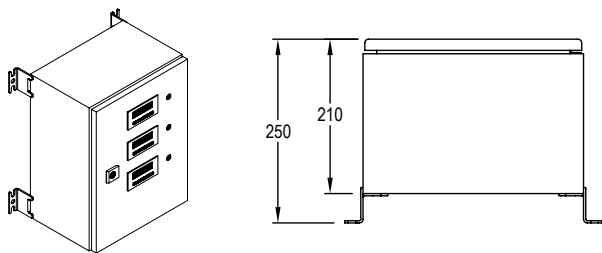
Specifications subject to change without notice.

CABIN-2xB1SUMD > STANDARD DIMENSIONS

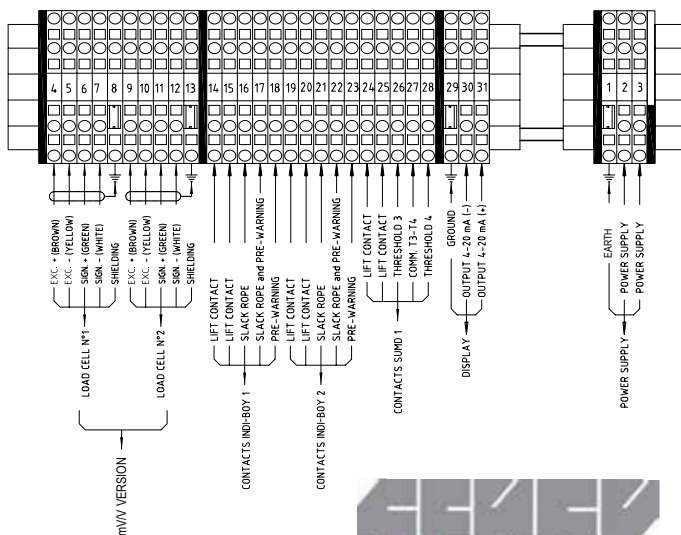


Dimensions in mm

Other views



Terminals



OPTIONAL CARDS

Communication cards (max. 1 choice)

CARD-CDC10

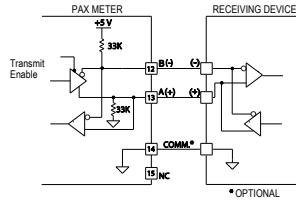


CARD-CDC1C

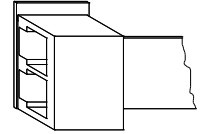
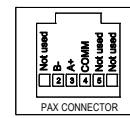


- RS-485 field bus communication interface

CARD-CDC10



CARD-CDC1C



CARD-CDC20

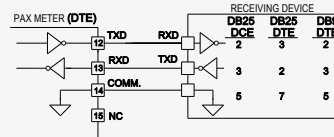


CARD-CDC2C

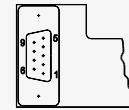


- RS-232 half-duplex communication interface
Available with crew terminals or DB9 connector

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.

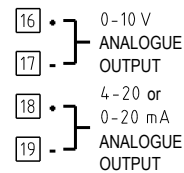
Analogue output card

CARD-CDL10



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

CARD-CDL10



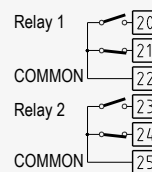
Relay cards (max. 1 choice)

CARD-CDS10 & CARD-CDS20

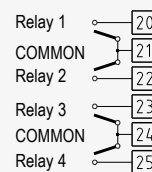


- 2 or 4 set-points activating each an independent relay

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.