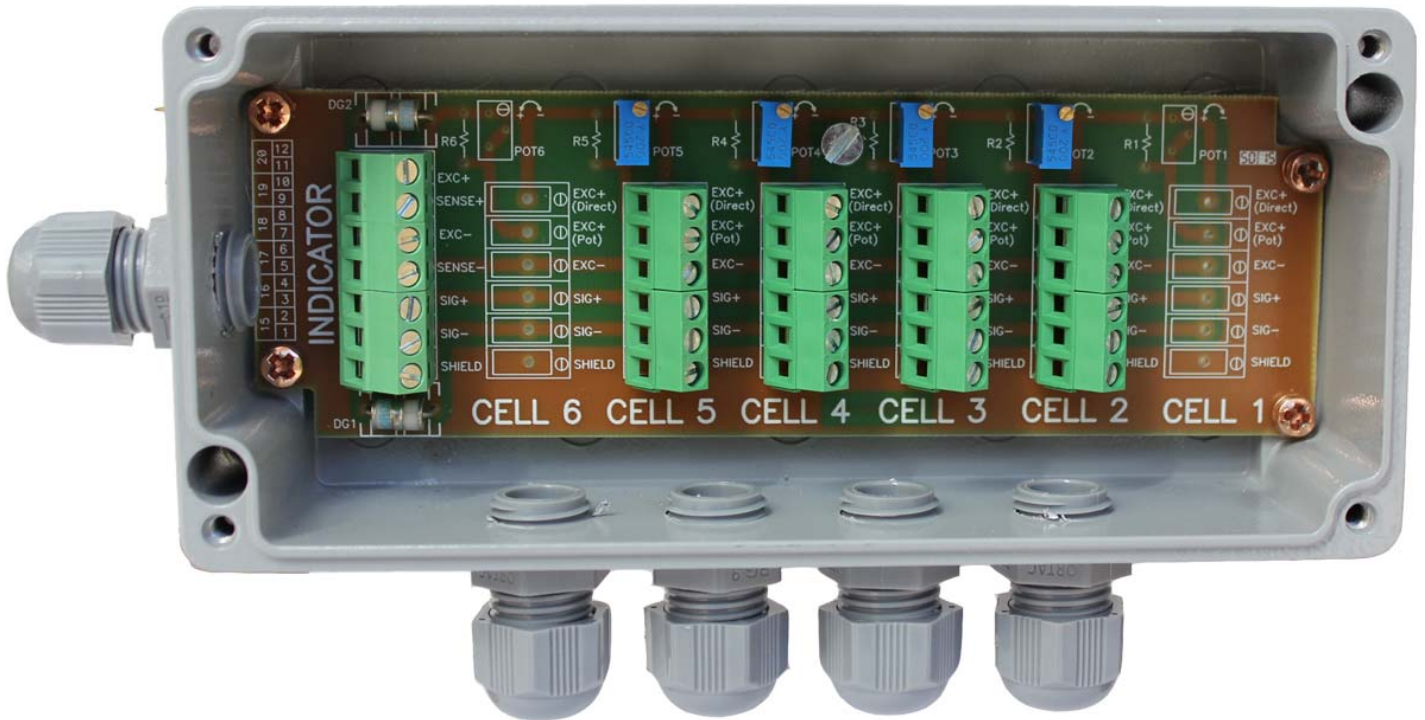


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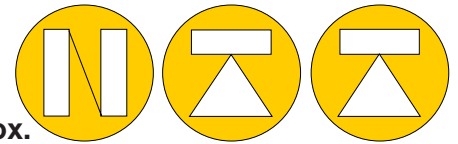
Page 1

CAJA/N-RA 4-8 Load cells Junction in aluminium, in IP67 protection Box.



Alternative is **CAJA-A-PLG**
made of High Resistant ABS PLAST IP68 protection.

CAJA/N-RA 4-8 Load cells Junction in aluminium, in IP67 protection Box.



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2 gas protection fuses for safety protection of high supply voltage at Power input.



At larger distances Sense+ og Sense- til monterings af forsynings ledningerne fra instrumentet.

At larger distances (approx. +15m depending on shift in temperature during time) 6 wire with Sense + & Sense - can be used with good result to compensate for change in power supply during larger temperature changes, during time.

The main wire will be the + supply to be send back from the load cell to + Sense at the Instrument input, if not possible to do the same with minus supply ! then just connect this at the instrument input to Sense -, this will have same effect when + come return from the load cell, look page 4

EXC+ (Direct). Use this for high quality Load Cells where there are no need to corner correct anything at all.

EXC - (Pot) Use this on low cost cells so the Potentiometers can be used for corner corrections.

CAJA/N-RA J BOX description inside the box.

Power supply + to load cell = EXC+

Power Supply - to Load Cell = EXC-

Signal + from Load Cell = SIG+

Signal - from Load Cell = SIG-

At 6 wire load Cell cable, connect + Sense wire to EXC+

And Sense- to EXC- on instrument.

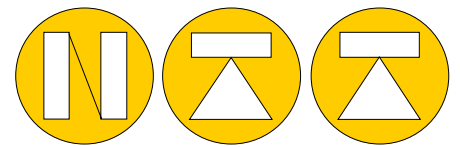
Can also be delivered as ATEX approved CE Certificate LOM 12ATEX2029 X

ATEX Class is:

Ex II 1GD

Ex ia III 85 °C Da // Ex ia T4..T6 Ga

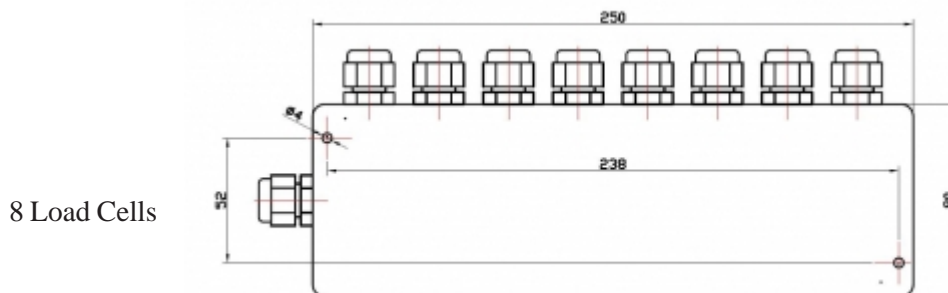
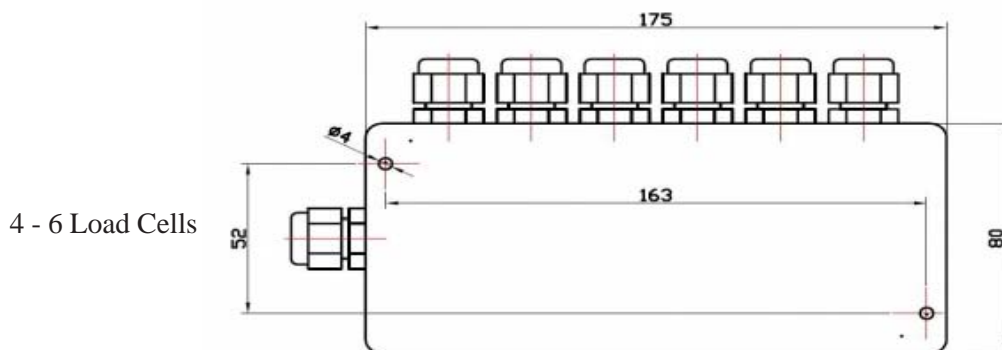
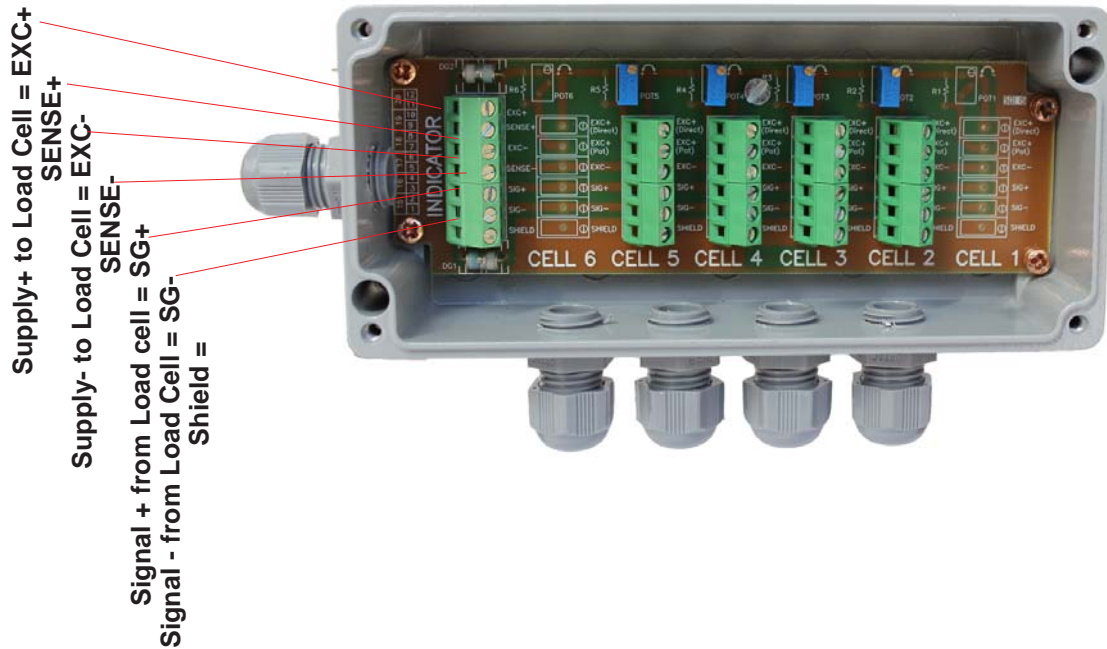




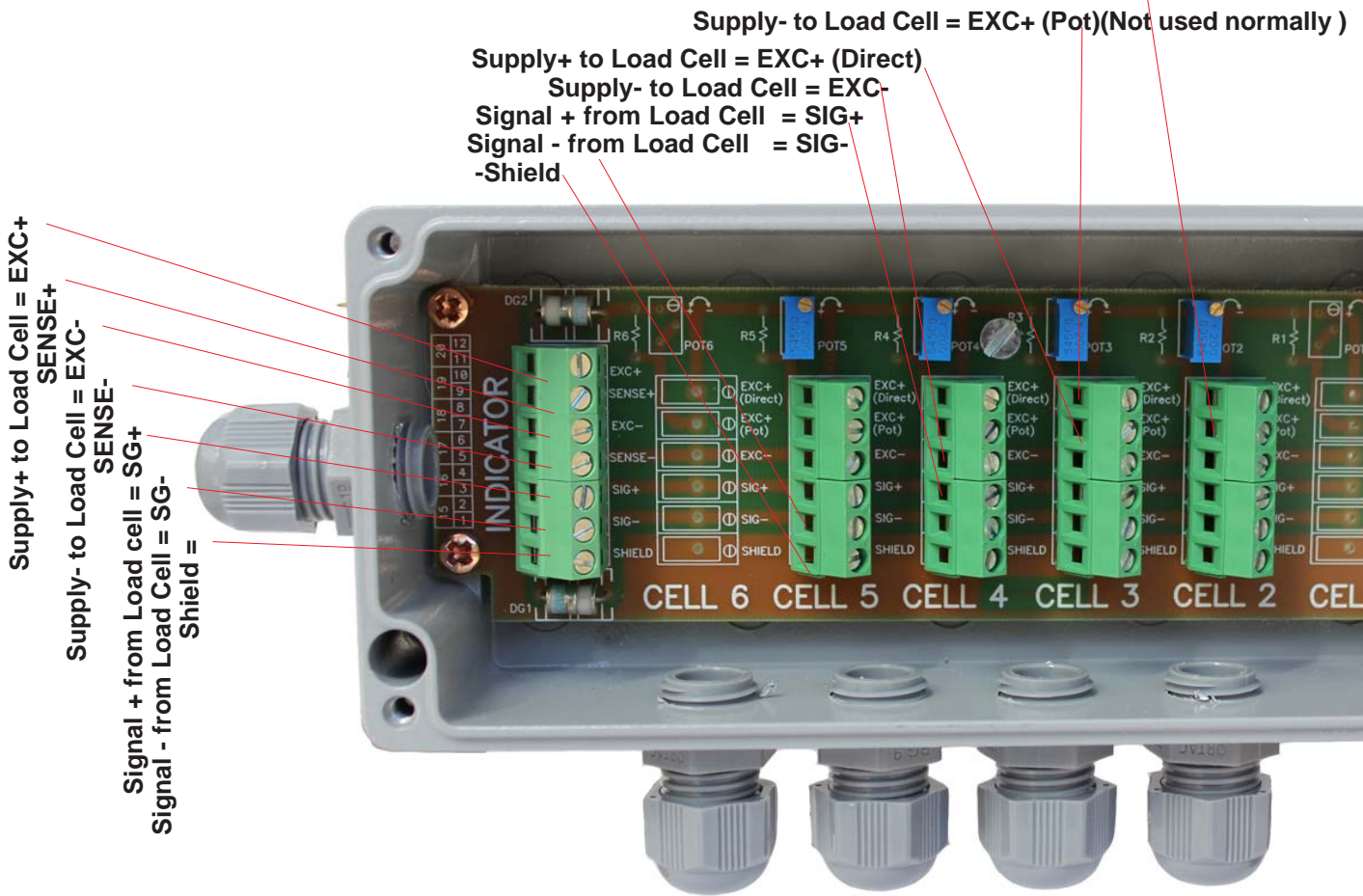
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CAJA/N-RA 4-8 Load cells Junction in aluminium, in IP67 protection Box.

Page 3



EXC+ (Direct) used normally for NTT Load Cells



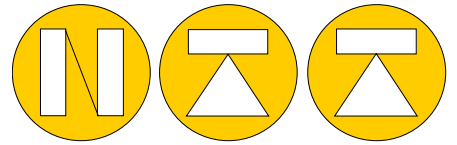
Longer cable than 8-10 meter Please use SENSE wiring then !

If the instrument do have Sense + & - terminals normally these has to be used then. You can the use UNITRONIC FD P PLUS 5x0,34 cable (PUR) where we only use + terminal

SENSE/REF minus do connect to EXC- on the instrument
 SENSE + wire do then go to SENSE + on CAJA J-box (SENSE also called REF ++)
 The 4 others will then be used for EXC +/- & signal +/-
 SHEILD to shield connection.
 The load cell it self do connect to the SHIELD in the J-Box, c shield on load cell cable is NOT connected to Load Cell body !!



Color codes for load cell supplied by **NTT from 2023**



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Page 5

Names for load cell wires:

Power Supply +/- to the load cell can be named with many different names as:
+/- Excitation, Exc., Exct., Excitat., In +/-, Input +/- (to the cell)

Signal from the load cell can be named as: Signal +/-, out +/-, output +/-

Sense will normally be named Sense or Sen +/-

Do you have an instrument and load cell with 6 wires then please use all 6, if only 4 wire load cell Sense + shall be connected to Exc.+ and Sense - to Exc. - via a jump wire

Vishay Revere Transducers

| | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|---------------|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | <u>sense+</u> | <u>sense-</u> |
| Green | black | white | red | yellow | blue |

Relevant for : V-RTE model: ACB - HCB - HPS- SHB 6 wire

| | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|---------------|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | <u>sense+</u> | <u>sense-</u> |
| Green | black | white | red | | |

Relevant for: V-RTE, ASC - ALC - BSP- SHB 4 wire

| | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|---------------|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | <u>sense+</u> | <u>sense-</u> |
| Red | black | green | white | blue | brown |

Relevant for: V-RTE, 642C - 652 - & VTH 3410

| | | | | | |
|----------------|----------------|-----------------|-----------------|--|--|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | | |
| Red | black | green | white | | |

Relevant for: V-RTE Model: 363 - 9363 - 5123 - 9123 - 4158 -5102 - 9102-9103

| | | | | | |
|----------------|----------------|-----------------|-----------------|--|--|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | | |
| Pink | grey | brown | white | | |

Relevant for: Vishay / Revere Model: RLC

Vishay Tedea Huntleigh

| | | | | | |
|----------------|----------------|-----------------|-----------------|--|--|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | | |
| Green | black | red | white | | |

Relevant for: V-TH model:-1004

| | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|------------------------|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | <u>sense+</u> | <u>sense-</u> |
| Green | black | red | white | blue | brown or yellow |

Relevant for: V-TH model: 1010/1015

| | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|---------------|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | <u>sense+</u> | <u>sense-</u> |
| Green | black | red | white | blue | brown |

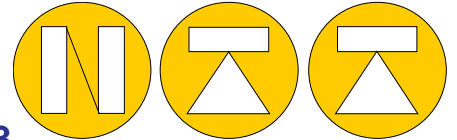
Relevant for: VTH model: 1042, 1130, 1140, 1241/42, 1250, 1252, 1260, 1320, 1410, 1510, 240, 606, 615/16 9010

| | | | | | |
|----------------|----------------|-----------------|-----------------|---------------|---------------|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | <u>sense+</u> | <u>sense-</u> |
| Blue | black | white | red | green | gray |

Relevant for: VTH Model -220, 343, 355, 3510

| | | | | | |
|----------------|----------------|-----------------|-----------------|--|--|
| <u>Exct. +</u> | <u>Exct. -</u> | <u>signal +</u> | <u>signal -</u> | | |
| Red | blue | green | yellow | | |

Relevant for: VTH-Model: 601



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Page 6

Color codes for load cell supplied by **NTT from 2023**

Names for load cell wires:

Supply to the load cell can be named +/- -Excitation, Exc., Exct., In +/-, Input m.m.

Signal from the load cell can be named: Signal +/-, out +/-, output +/-

Sense will normally be named Sense or Sen +/-

Do you have an instrument and load cell with 6 wires then please use all 6, if only 4 wire load cell Sense + shall be connected to Exc.+ and Sense - to Exc. -

Nordic Transducer / Nordisk Transducer Teknik

| | | | | |
|------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|
| <u>Exct. +</u> Red | <u>Exct. -</u> black | <u>signal +</u> green | <u>signal -</u> white | <u>shield</u> yellow |
|------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|

Relevant for: NTT model. BBS-D4 - ET-3 - ET-4 - GY-2 - MS-1 - 9212 - 9223 - 9223W, TCS-9310 - TCSW-9310, TCTN-9110 - PE-1/ 2

| | | | |
|------------------------------|--------------------------------|---------------------------------|----------------------------------|
| <u>Exct. +</u> Red | <u>Exct. -</u> black | <u>signal +</u> white | <u>signal -</u> yellow |
|------------------------------|--------------------------------|---------------------------------|----------------------------------|

Relevant for: NTT, C2S, C8S, CBS, CM35, D100, D200, TC4, TS, TCS, T-20,

| | | | | | |
|------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|------------------------------|
| <u>Exct. +</u> Red | <u>Exct. -</u> black | <u>signal +</u> green | <u>signal -</u> white | <u>sense+</u> yellow | <u>sense-</u> blue |
|------------------------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|------------------------------|

Relevant for:

NTT & all Sensocar Models.

AC1, AC2, AC3, BL- BLC, CS-A, DCO-2, 3, 4, PL.50, BS-1-2, FX-1, FX-2, CO-1, CO-2, TA-1, S-1, S2, SP-A, TR-1, TR-2,

| | | | | | |
|-------------------------------|--------------------------------|---------------------------------|-------------------------------|-------------------------------|------------------------------|
| <u>Exct. +</u> Blue | <u>Exct. -</u> black | <u>signal +</u> white | <u>signal -</u> red | <u>sense+</u> green | <u>sense-</u> gray |
|-------------------------------|--------------------------------|---------------------------------|-------------------------------|-------------------------------|------------------------------|

Relevant for: NTT model A-SBT10 & 3510



Please also control that there is no mixe of load cells which look similar but do have different ohm values & mV/V output

REMEMBER TO MOUNT THE LOAD CELLS IN A MANNER SO THEY DOGIVE A POSITIVE OUTPUT SIGNAL AT THESE CONNECTIONS.