

## Connection box for high voltage (HV) modules

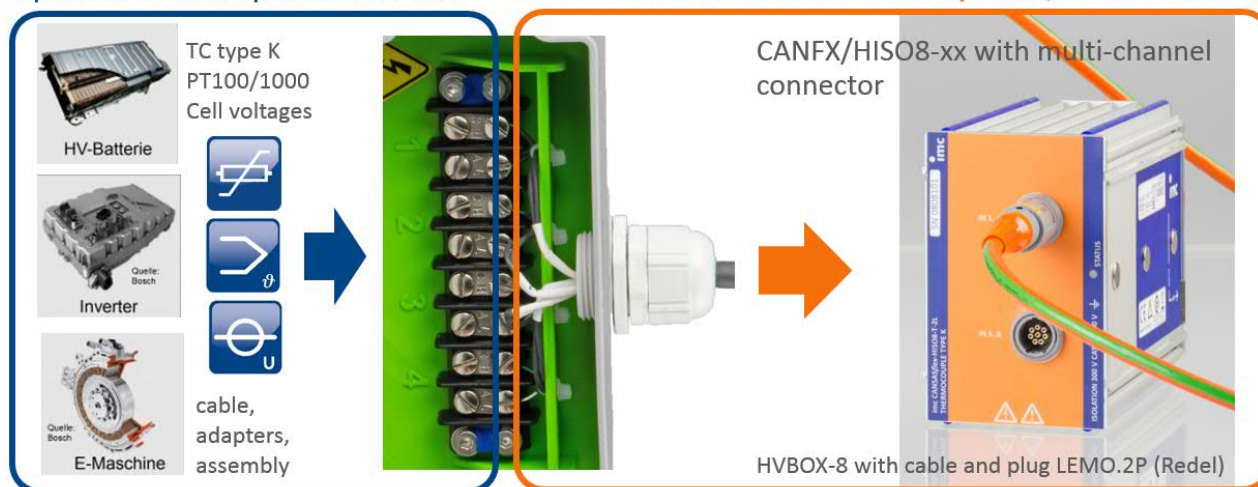


### External HV connection box

- with 10 m special HV cable via LEMO.2P (Redel)
- isolated screw terminals in polymer box
- sensor cable entry via cable gland (PG)
- serves as flexible and safe cabling interface to any arbitrary user cable
- clear division between fully specified, HV-rated measurement module and suited HV-rated connectors on one side – and custom and application specific cables and sensors on the other side - that might comply with differing rules or regulations, under exclusive responsibility of the user

### Specimen and special sensors

### HV-rated safe measurement system/connection scheme



### Overview of the available variants

Order Code	LEMO.2P connection box for high voltage (HV) modules	article no.
ACC/HVBOX-8-T-10M	<b>4-channel HV connection box for thermocouple type K</b> high isolating box with 8 screw terminals, for four thermocouples with 10 m HV compatible cable and plug LEMO.2P (Redel) 8-pin, e.g. for CRFX/HISO-8-T-2L, CANFX/HISO8-T-2L	1350353
ACC/HVBOX-8-10M	<b>2-channel HV-connection box for voltage or PT100/PT1000</b> high isolating box with 8 screw terminals, for e.g. two PT100 sensors with 10 m HV compatible cable and plug LEMO.2P (Redel) 8-pin, e.g. for CANFX/HISO8-4L modules	1350354

### Technical Specs

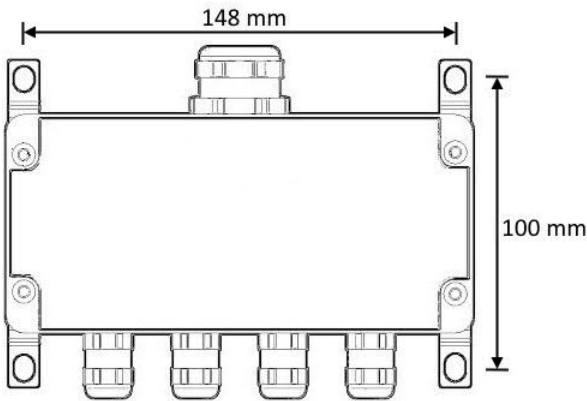
Input / Output		
Parameter	Value	Remarks
Inputs HVBOX-8-10M	terminals (Cu) for two sensors (PT100/1000) or voltage signals	
Inputs HVBOX-8-T-10M	terminals for 4 thermocouple type K	labelling in the box: CH = green wire = + AL = white wire = -
Output Connector plug	1x 8-pin LEMO.2P (Redel)	for CRFX/HISO-8-T-2L, CANFX/HISO8-T-2L, CANFX/HISO8-4L
Cable length	10 m	HV rated

Isolation		
Parameter	Value	Remarks
Isolation against accessible parts (case)	300 V CAT II 800 V CAT 0	reinforced isolation
Isolation of the measurement channels against each other (sensors)	300 V CAT II 800 V CAT 0	basic isolation
Isolation test voltage	AC 3000 V	1 min.
Operating temperature range	-20 °C to +80 °C	
Ingress protection class	IP65	only when the box is closed and when all gable glands properly sealed with cables

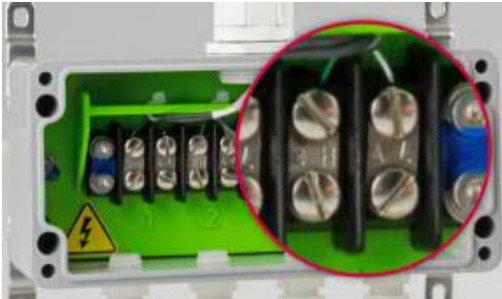
Dimensions, Weight		
Parameter	Value	Remarks
External dimensions, W x H x D	160 x 75 x 77 mm	w/o screwings, w/o cable
Weight	1.2 kg	



### Mechanical drawings with dimensions



### Interior view



for the thermocouple variant: HVBOX-8-T-10M  
 as an example, two wires are enlarged  
 (+) left and (-) right  
 for the fourth thermocouple

Terminal		Cable (Color Code)	
Signal / Material	Label	IEC 585-3	ANSI
(+) Ni-Cr	CH	green	yellow
(-) Ni or Ni-Al	AL	white	red

### Symbols



Attention! Risk of electric shock. Dangerous voltages from the measuring sources may be applied to the terminals (HV on-board). Please observe the rated values!