BD|SENSORS
pressure measurement

KL 1

Terminal Box

Aluminium

Product characteristics

- ► aluminium die cast case
- ► for connecting 2-wire submersible transmitters
- ► integrated pressure balance item
- ► overvoltage protection with nominal discharge current of 10 kA

The terminal box KL 1 is intended for the professional electrical connection of 2-wire transmitters.

It offers integrated atmospheric pressure compensation also overvoltage protection and can be used for BD|SENSORS transmitters.
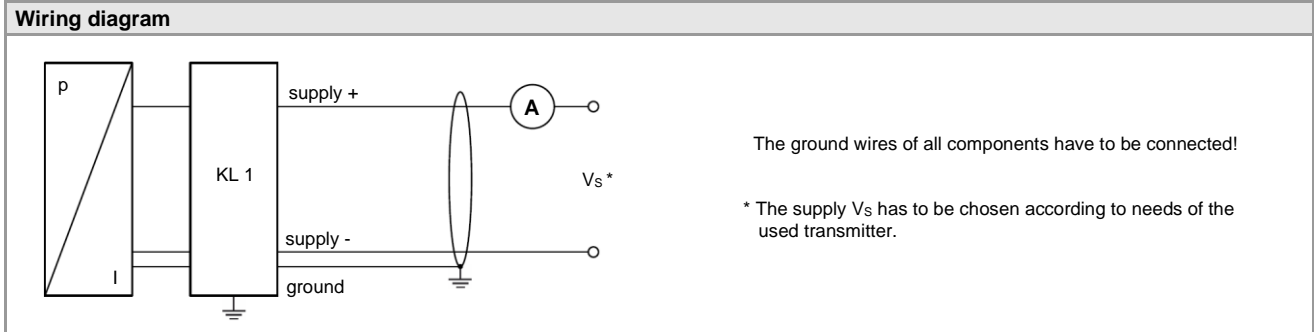
The terminal box KL 1 is equipped with a pressure balance item for equalization of atmospheric reference, therefore a cable without ventilation tube can be used on the supply side.

Vertical terminal clamps enable easy connection of cables inside. The terminal box has to be mounted with two fastening screws.
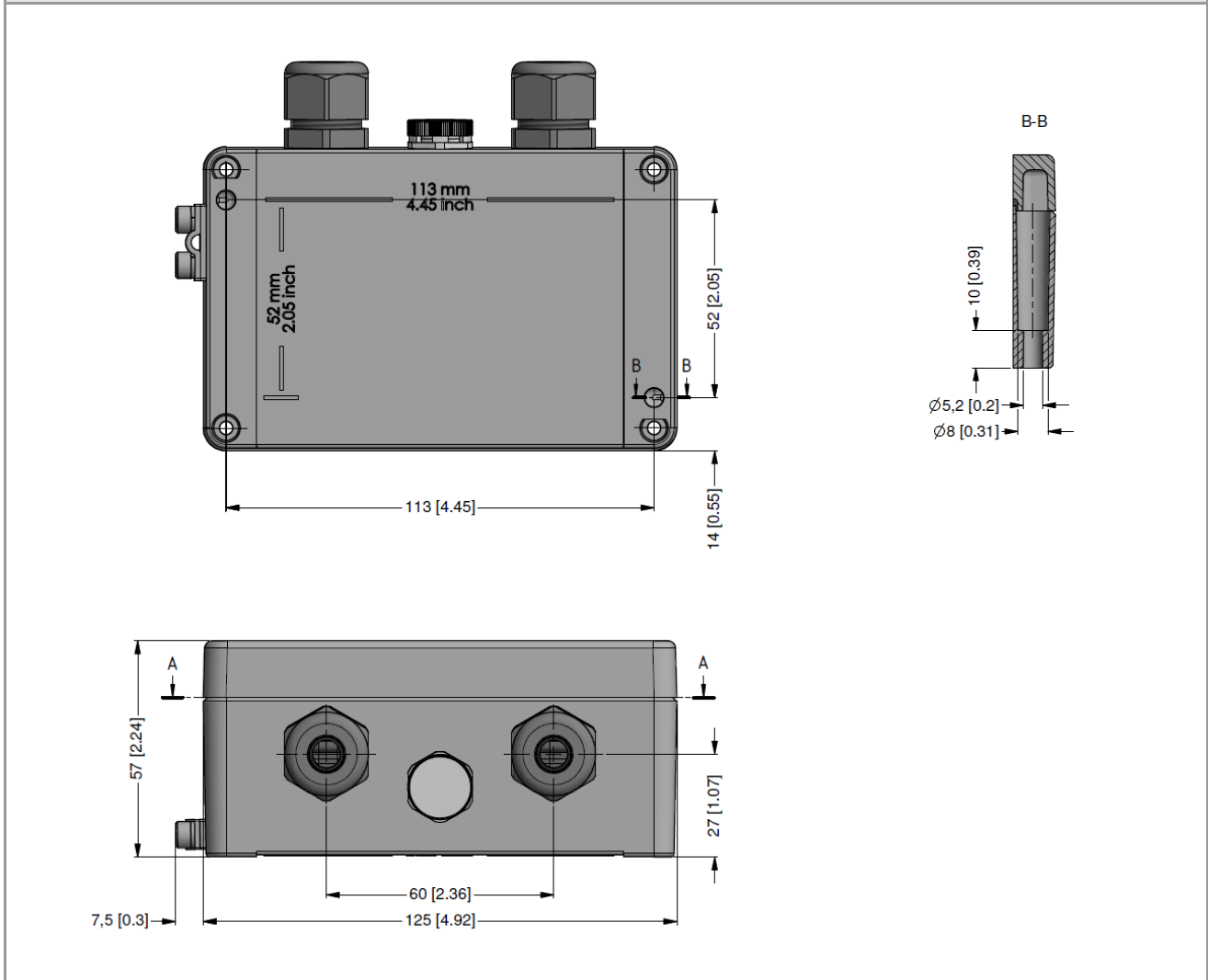
CE RoHS REACH

General specifications

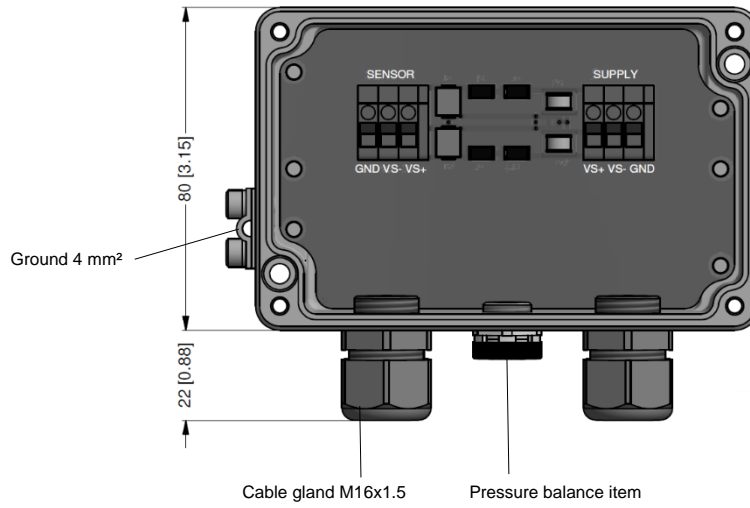|	
Number of signal lines	2-wire: 4 ... 20 mA
Housing	aluminium die cast case, grey powder-coating
Ingress protection	IP 66
Cable entries	cable gland: M16x1.5 Polyamide, seal NBR, IP 68, diameter range: standard Ø 5 ... 10 mm (others on request)
Atmospheric pressure compensation	pressure balance item with PTFE filter
Terminal clamps	vertical clamps for stranded and solid wires up to 2.5 mm^2
Weight	approx. 550 g

Overvoltage protection

Series resistance	10 Ω for each wire
Nominal discharge current	20 kA (8/20 µs)
Max. rated current	30 mA

Wiring diagram

The ground wires of all components have to be connected!

* The supply V_S has to be chosen according to needs of the used transmitter.

Dimensions (mm / in)

Sectional view A-A

80 [3.15]

22 [0.88]

SENSOR

SUPPLY

GND VS- VS+

VS+ VS- GND

Ground 4 mm²

Cable gland M16x1.5

Pressure balance item

KL1_E_300622

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pressure measurement

KL 1 - ZB.601 - ☐☐☐ **-** ☐☐☐

Version								
standard	1	0	0					
customer	9	9	9					consult

Special version								
standard				0	0	0		
customer				9	9	9		consult

01.04.2022