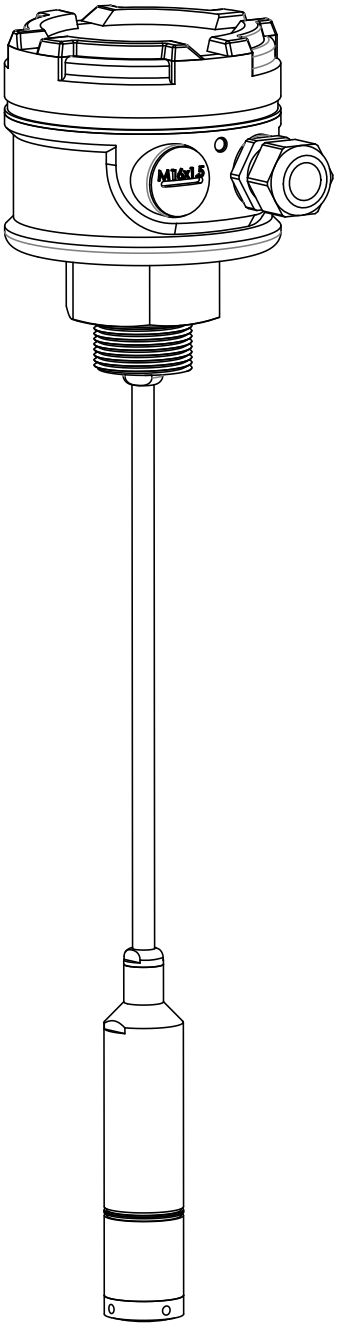
KPL

hydrostatic head level transmitters



technical documentation EN Rev. of 13/01/2023

sgm lektra

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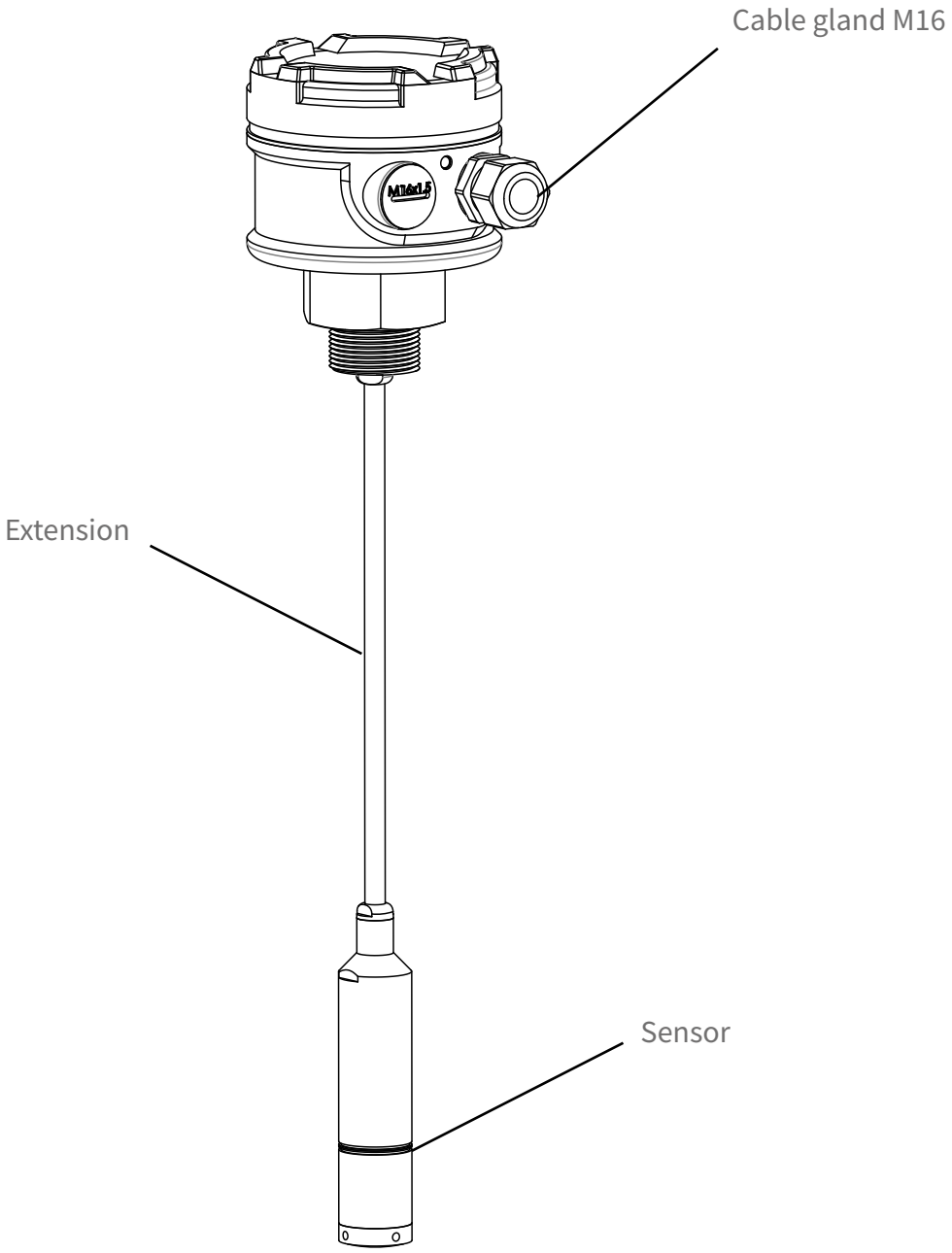
1-WARRANTY

Products supplied by SGM LEKTRA are guaranteed for a period of 12 (twelve) months from delivery date according to the conditions specifi ed in our sale conditions document.
SGM LEKTRA can choose to repair or replace the Product.
If the Product is repaired it will maintain the original warranty terms, whereas if the Product is replaced it will have 12 (twelve) months of warranty.
The warranty will be null if the Client modifi es, repair or uses the Products for other purposes than the normal conditions foreseen by instructions or Contract.
In no circumstances shall SGM LEKTRA be liable for direct, indirect or consequential or other loss or damage whether caused by negligence on the part of the company or its employees or otherwise howsoever arising out of defective goods.

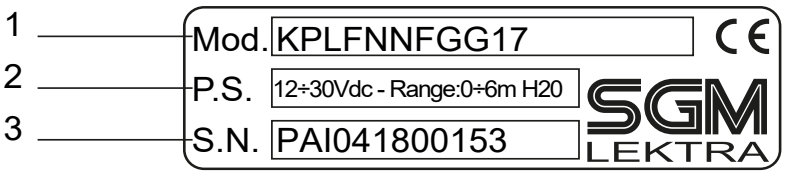
2- PRODUCT

The absence of a separating liquid between membrane and pressure sensor (“Dry-Pressure” measurement technology), provides superior technological performance with regard to overpressure, small thermal drift, high stability and accuracy. These features make it an ideal tool in process automation for hydrostatic head level measurement.



2.1 IDENTIFICATION

Each instrument has an adhesive identification plate on which the main instrument data are reported.
The following image describes the information and data on the plate.



1. Model
2. Power supply / Range
3. Serial number

3-TECHNICAL SPECIFICATIONS

Measurement range
from 1m H2O to 200 m H2O

Accuracy
0,5% FS

Typical stability
< ±0.1% FS / Year

Power supply
10-36 V DC (2-wire)

Output
4...20mA

Room temperature
-20 ÷ +70°C

Product temperature
-15°C ÷ +60°C KPLC/KPLE /KPLD /KPLF
-20°C ÷ +60°C KPLG / KPLR

Storage temperature
-40° ÷ +80°C

Relative humidity
0÷95%RH

Atmospheric pressure
86 ÷ 108KPa

Submerged probe protection
IP68

Housing (KPLC, KPLE)
epoxy-painted aluminium

Housing protection
IP67

J-BOX
Polycarbonate

J-BOX protection
IP65

Membrane
SS316L

Sealing gasket
Fluorinated elastomer FPM (Viton); SS316 Fully sealed for KPLE / KPLF

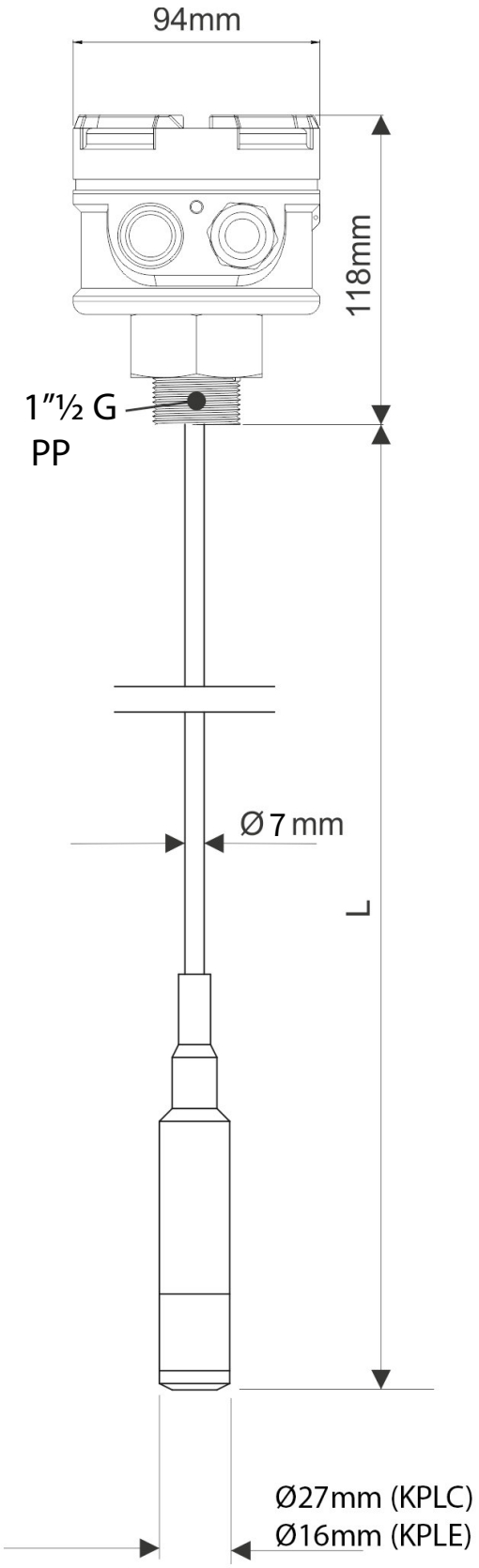
Cable (KPLC, KPLD, KPLE, KPLF)
PU (polyurethane) Ø7mm

Submerged probe
SS316L

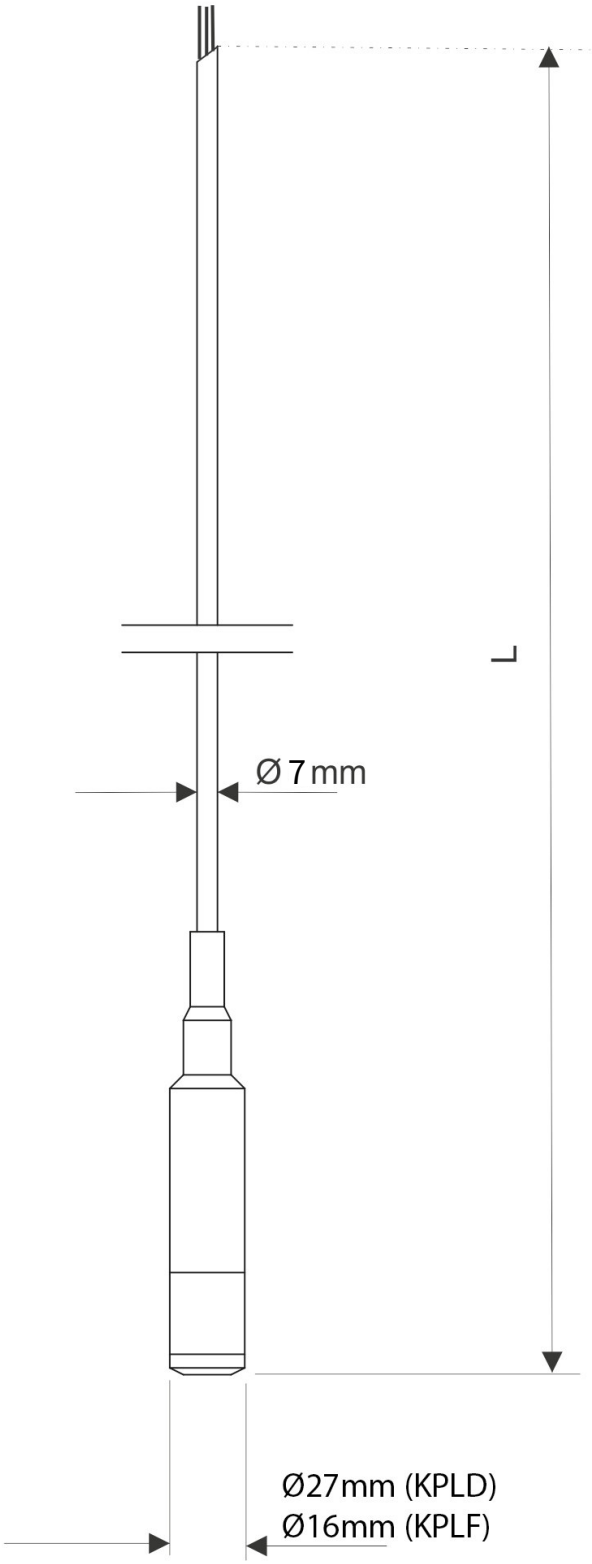
Process connection
Threaded G 1" SS304 (KPLC)
Suspended with PU-compensated cable (KPLD / KPLF)
self-supporting fastening hook (optional accessory code 835A001A, for KPLD / KPLF)

4-DIMENSIONS

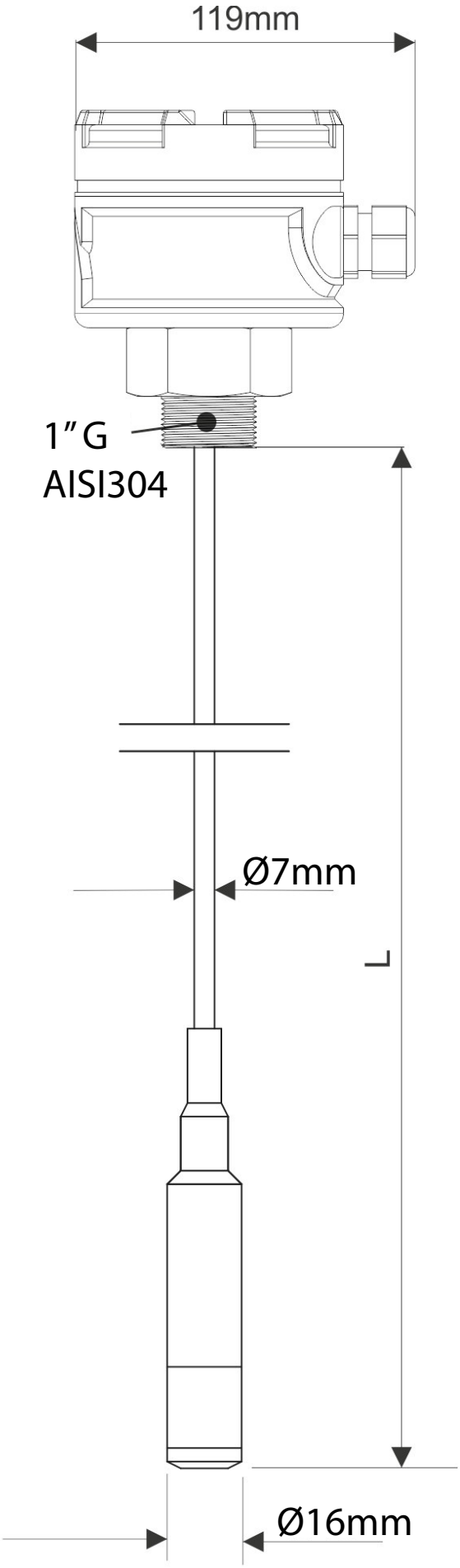
4.1 PHYSICAL DIMENSIONS



Vers. **KPLC/KPLE**
threaded connection



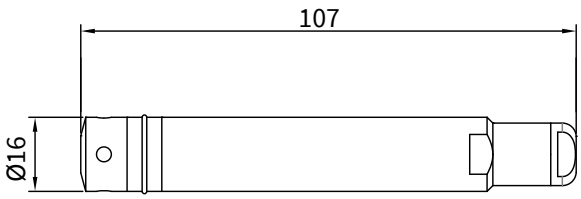
Vers. **KPLD/KPLF**
suspension type



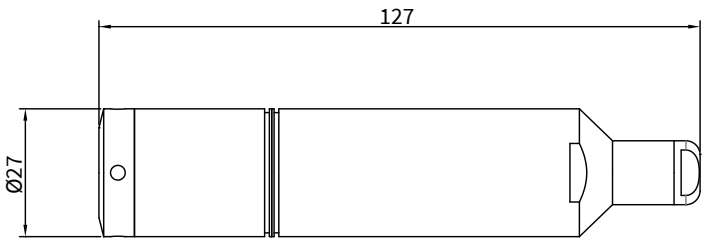
Vers. **KPLE**
threaded connection

4.2 SENSORS DIMENSION

"E/F" VCERSION

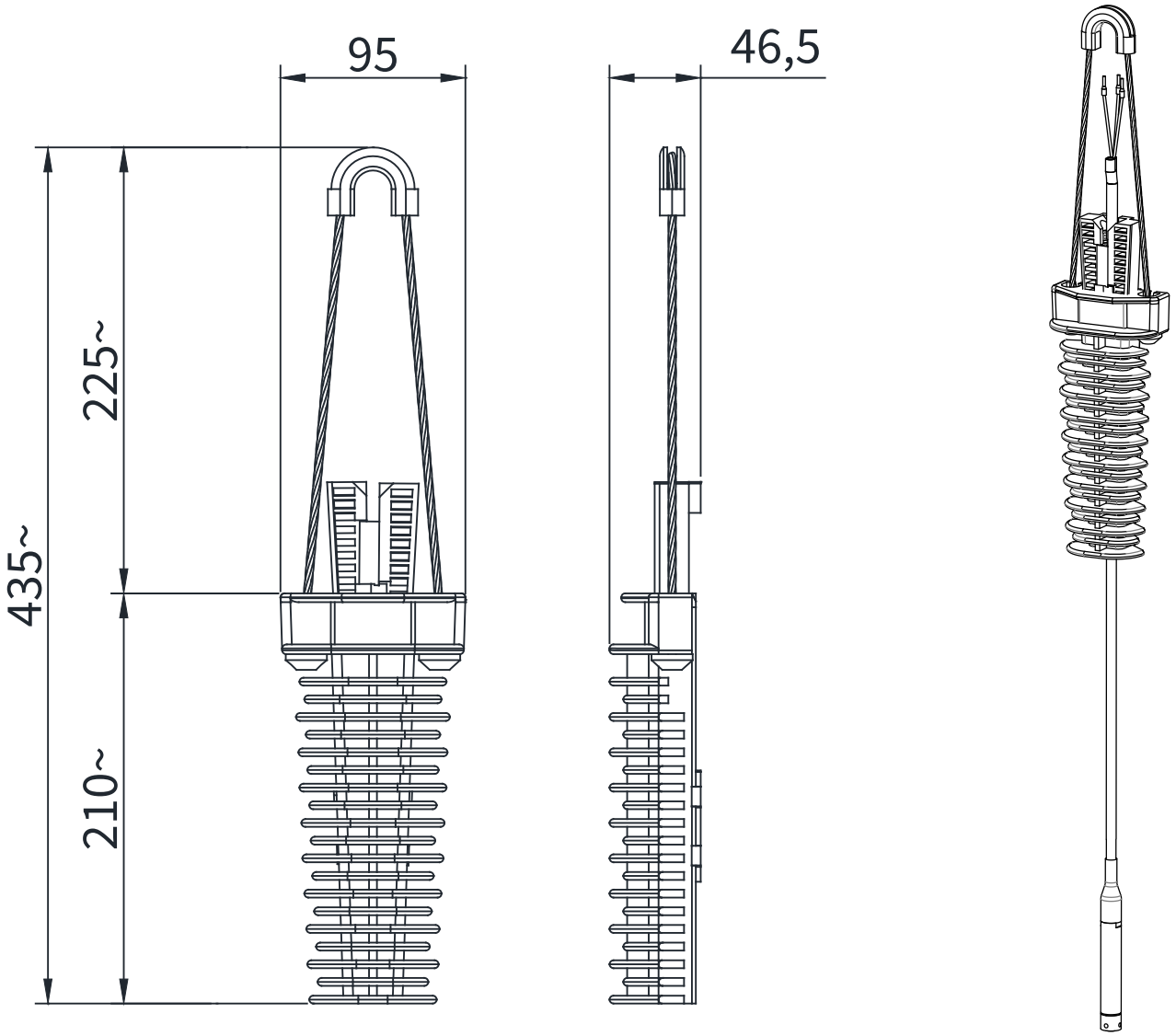


"C/D/H" VERSION

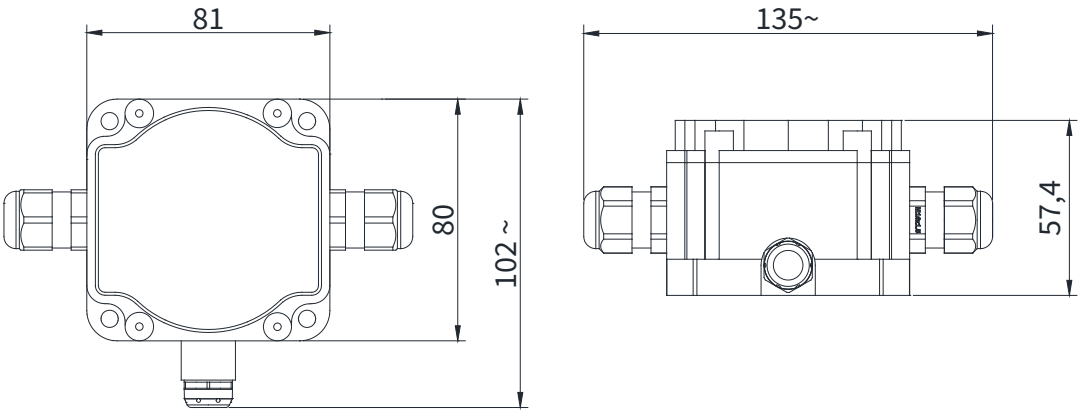


4.3 SELF-SUPPORTING FASTENING HOOK FOR KPLD / KPLF

A quick and effective solution to secure the measuring device for tank edge or well applications uses a self-locking system for the suspended cable (optional accessory).
Ordering code 835A001A.



4.4 DIMENSIONS J-BOX



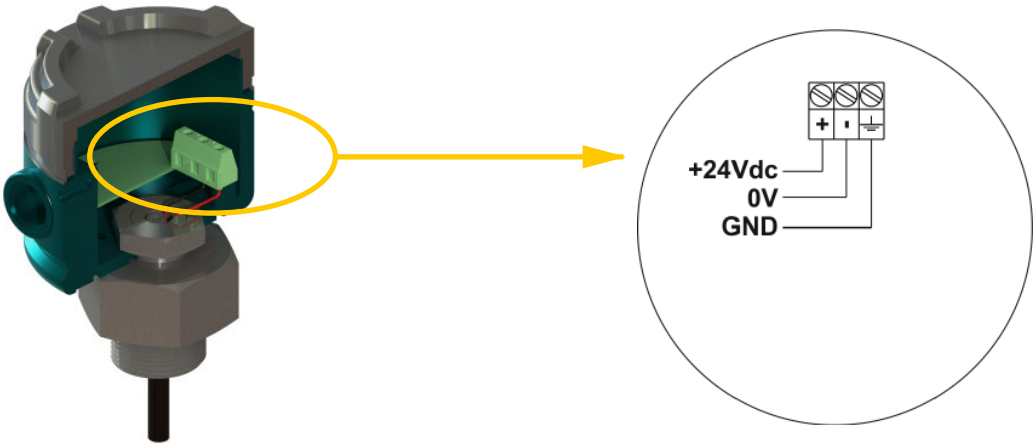
5-ELECTRICAL CONNECTIONS

KPL transmitters must be installed at a connection point that allows them to correctly detect the pressure at the base of a tank.

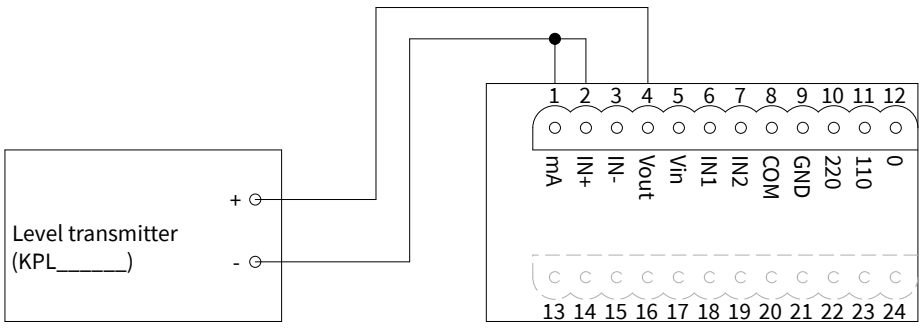
5.1 KPLD - KPLF MODEL

Functions	Wire
+24	Red
0 V	Black
GND	Yellow/Green

5.2 KPLC - KPLE - KPLG - KPLR MODELS

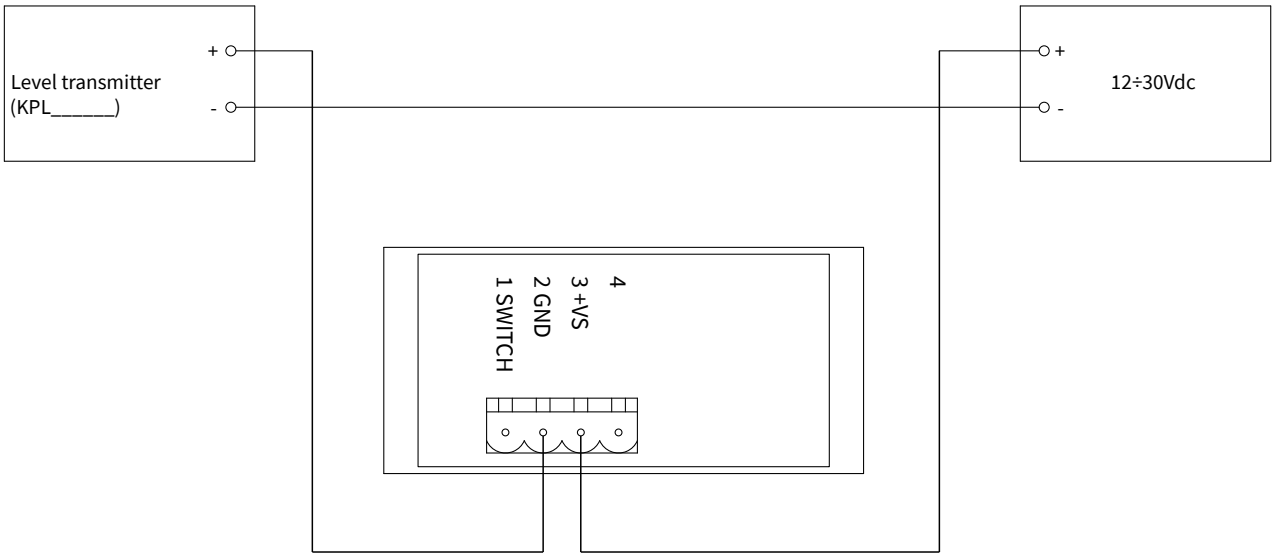


5.3 SYSTEM WITH DISPLAY / CONTROL UNIT



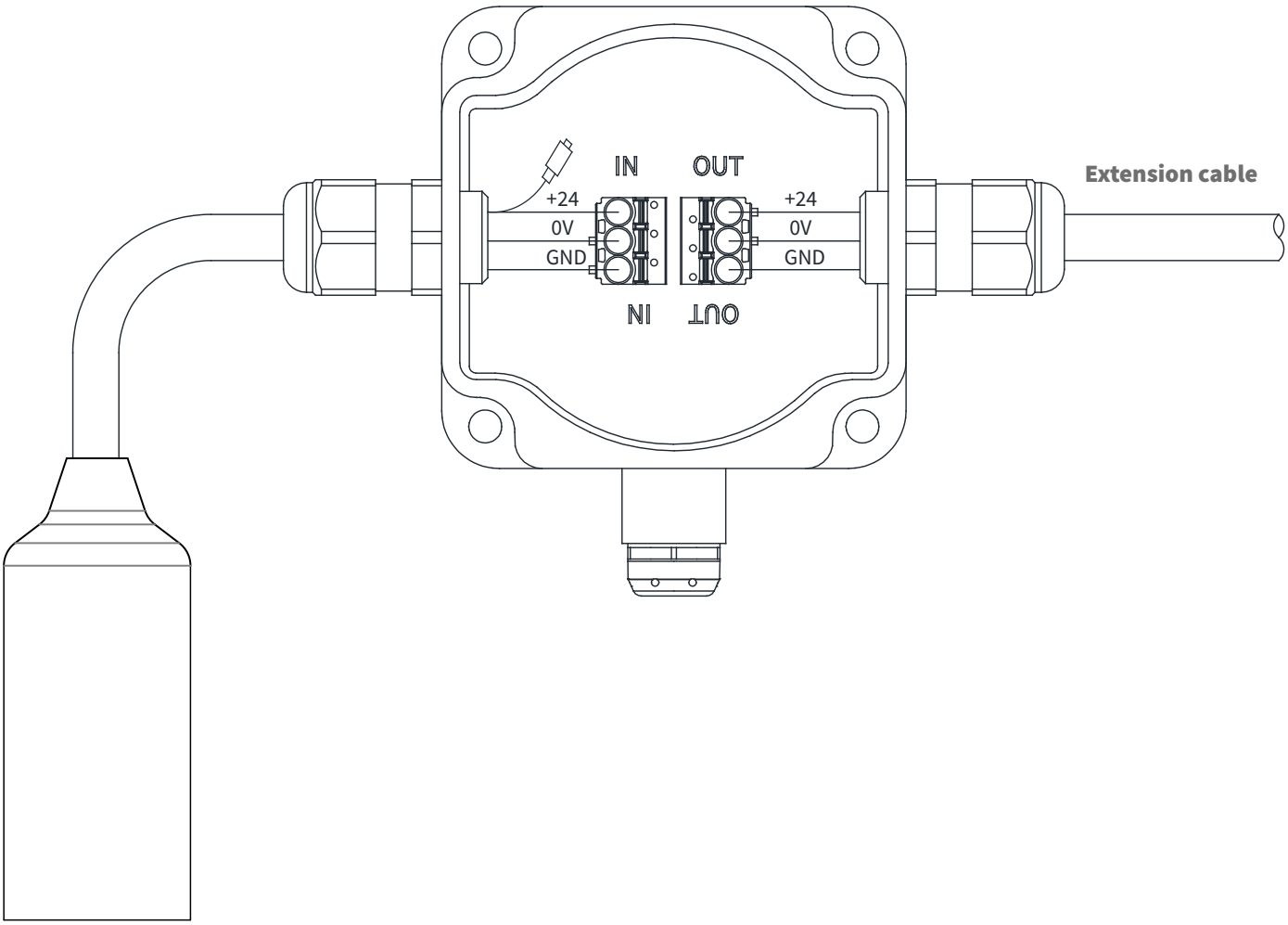
SLA2X – Display and control unit Display 5½ digits

5.4 SYSTEM WITH 2-WIRE DISPLAY



VL401 or VL402 Indicator – Loop 4-20mA (self-powered)

5.5 CONNECTIONS J-BOX



6-TESTING / QUALITY CERTIFICATE

CE

In conformity to the company and check procedures I certify that the equipment:

(Level transmitters)

is conform to the technical requirements on Technical Data and it is made in conformity to the procedure

Quality Control Manager: ..... Production and check date: .....

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