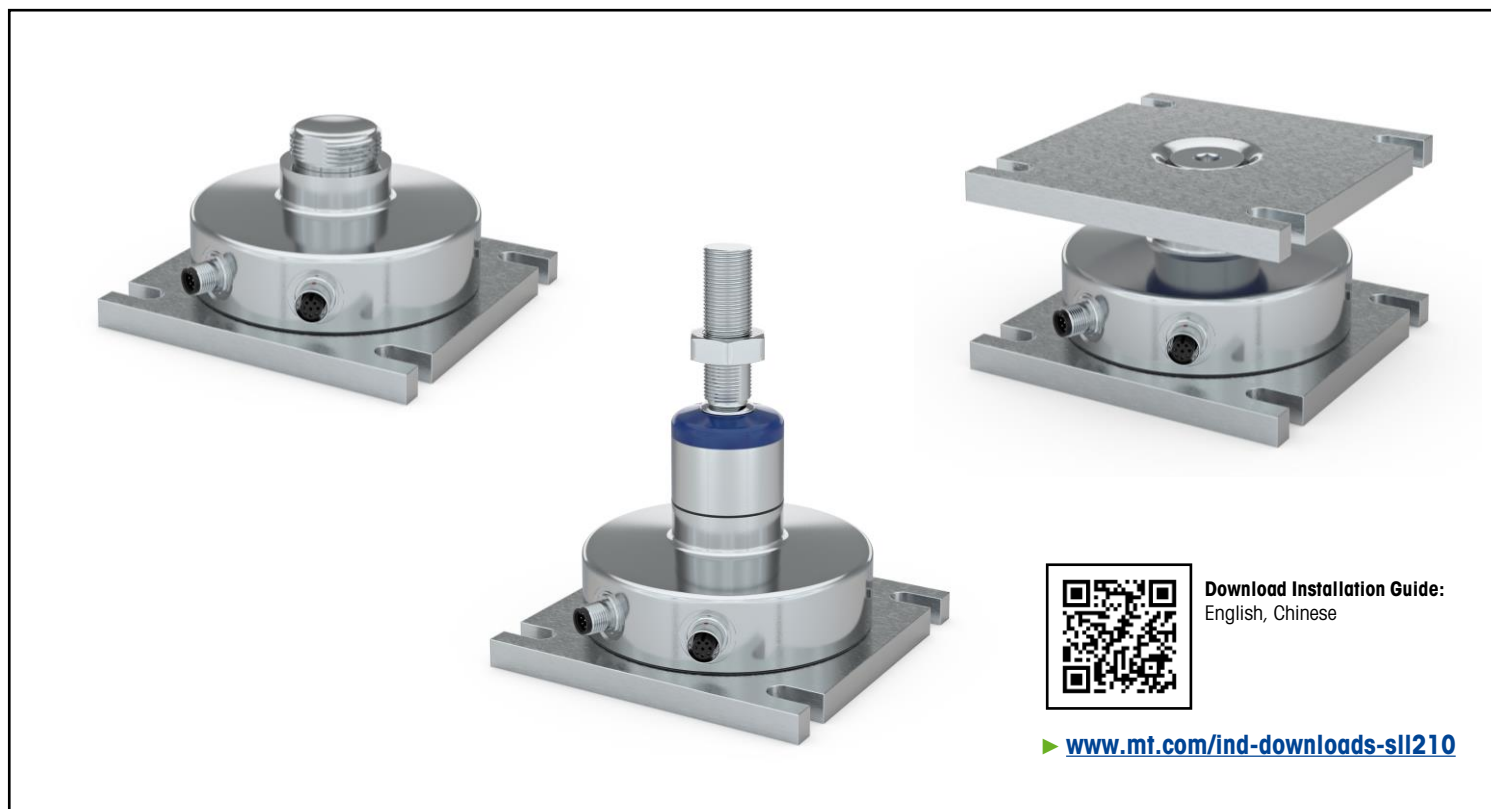


SLL210 AnyLevel™ Level Detection System



METTLER TOLEDO



1

Before You Begin

Tools You Need:



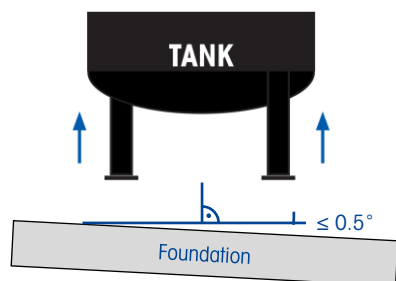
2

Prepare Environment

- 1 Ensure flat foundation ($\leq 0.5^\circ$), shim if needed
- 2 Lift tank
- 3 Position one sensor under each leg



Block tank when in raised position

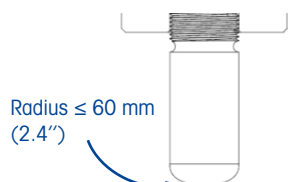


3

Mount the Sensor to the Tank and on Foundation / Adjust for Uniform Load Distribution

Receiver Option

- 1 Place sensor below stem



- 2 Adjust load distribution by turning the stem

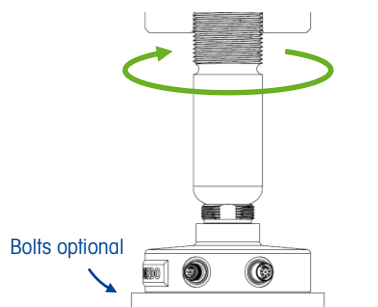
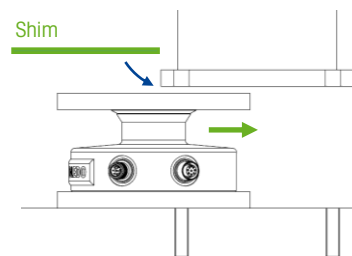
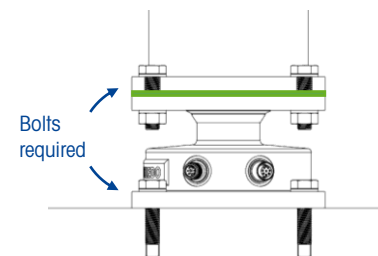


Plate Option

- 1 Place sensor below tank leg, add shim as needed

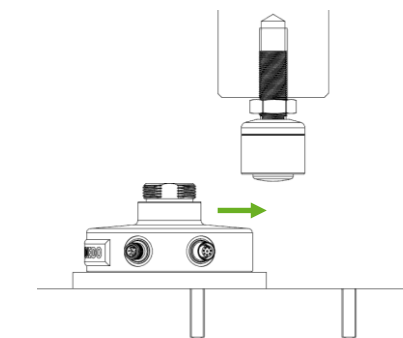


- 2 Mount to tank and foundation: 1 t & 3 t versions with bolts M10 (3/8"), 10 t & 30 t versions with bolts M20 (3/4")

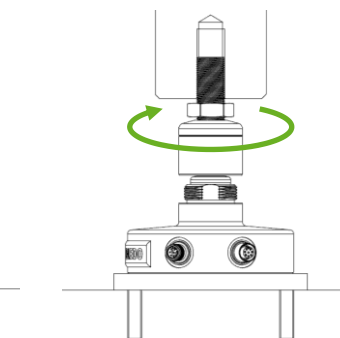


Threaded Stem Option

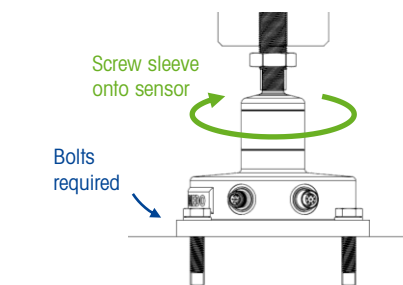
- 1 Screw threaded stem (M20, 3/4") into tank leg, place sensor below



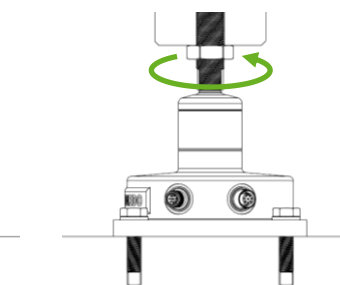
- 2 Drive down threaded stem till contact, align sensor centrally



- 3 Mount to foundation with bolts M10 (3/8")



- 4 Adjust load distribution by turning the stem, secure with counter nut



See the SLL210 AnyLevel™ Installation Manual for further instructions:

► www.mt.com/ind-downloads-sll210

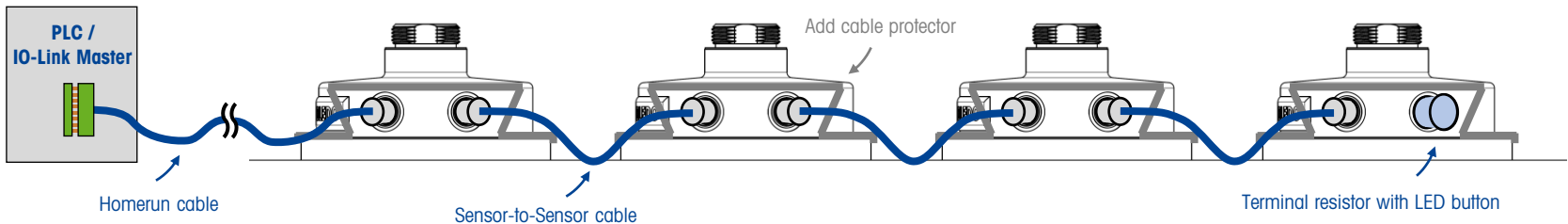


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4

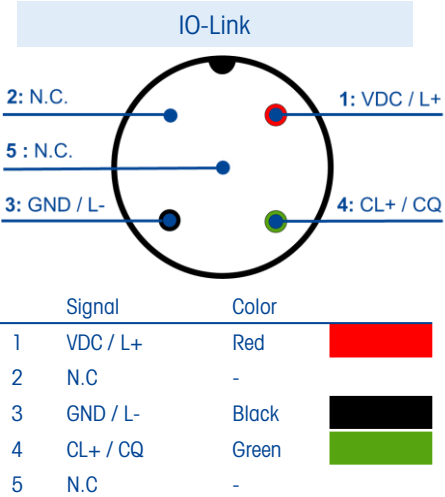
Connect Sensors: Daisy Chain / Arrange in any Order

- 1 Connect sensors in a daisy chain in any desired order. Use industry standard or METTLER TOLEDO cables
- 2 Connect first sensor to PLC or IO-Link Master
- 3 Connect terminal resistor / LED button to last sensor



5

Wire / Pin Assignment for PLC Connection



4-20 mA analog / HART		
Signal	Color	
1 CL-	Blue	
2 CL+ / CQ	White	
3 Ready	Yellow	
4 Error	Pink	
5 RS485-A+	Green	
6 RS485-B-	Brown	
7 GND / L-	Black	
8 VDC / L+	Red	

Installation Tips and Precautions

- Avoid moisture and dust
- Ensure voltage stability – use a regulated power supply
- Avoid overload and shock
- Ensure good grounding

6

Initialize and Configure the SLL210 AnyLevel™ System

- 4-20 mA analog
- 1 Power on, wait 12s (LED fast flashing). Initializing is finished when LED stays on constantly
 - 2 Resetting for the first run, press button between 4 s and 10 s
 - 3 System is operating when LED flashes slowly (1 Hz)

- 4-20 mA HART
- 1 Download and integrate DD-file <https://www.fieldcommgroup.org/>
 - 2 Power on, wait 12s, send resetting command
- IO-Link
- 1 Download and integrate IODD-file <https://ioddfinder.io-link.com/>
 - 2 Power on, wait 12s, send resetting command

Contact Information:

► www.mt.com/contact

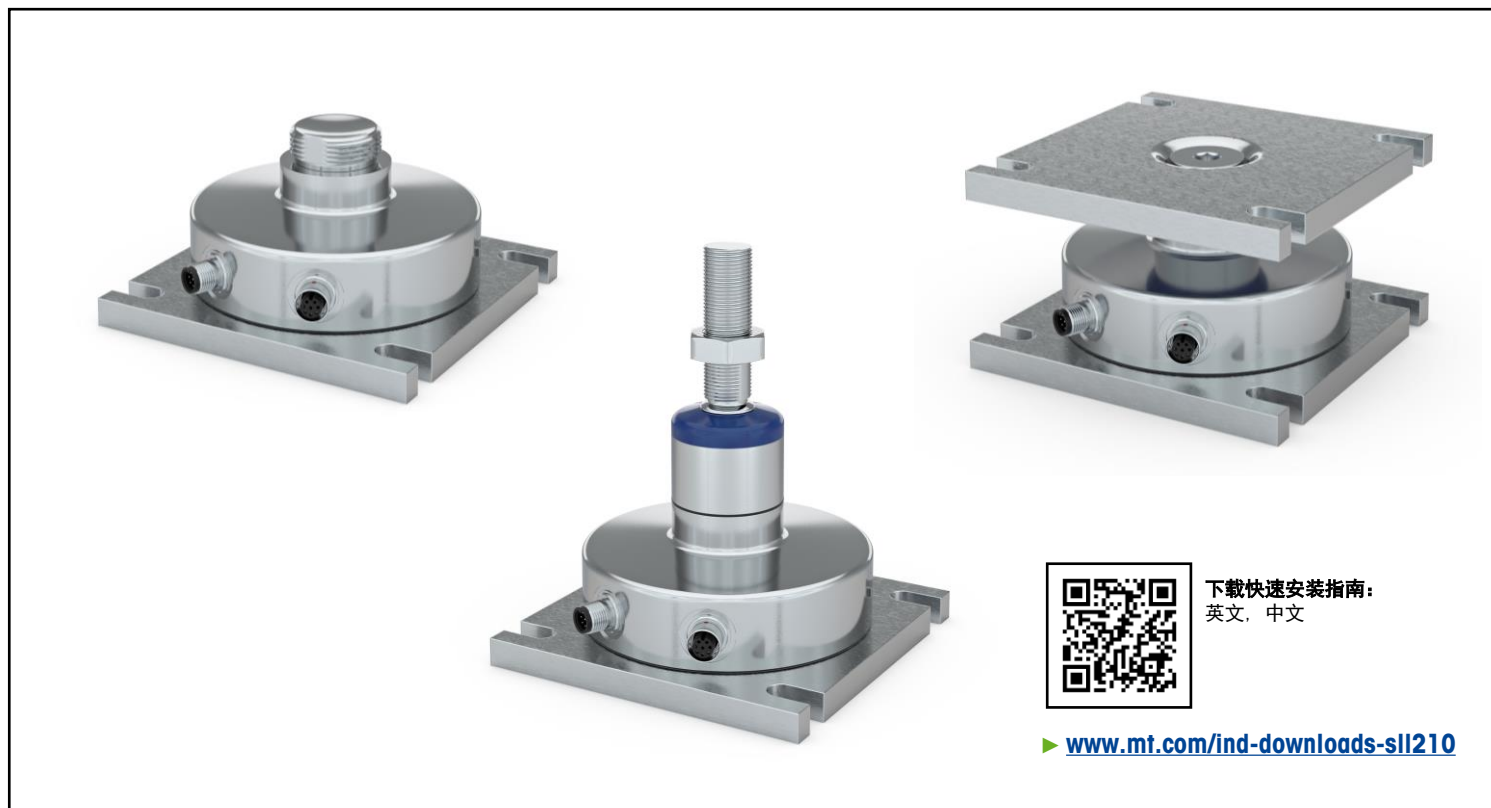
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Document No. 30937541 B

SLL210 AnyLevel™

料位监控系统



METTLER TOLEDO



1

准备工作

您需要的工具：



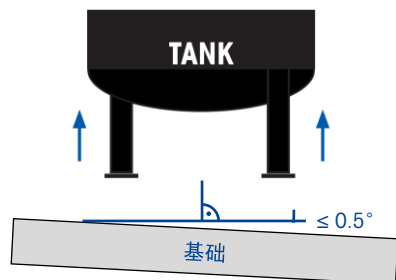
2

准备环境

- ① 确保地基平坦 ($\leq 0.5^\circ$)，必要时垫片
- ② 提升料罐
- ③ 在每条腿下方放置一个传感器



请抬起料罐并保持稳定后再操作

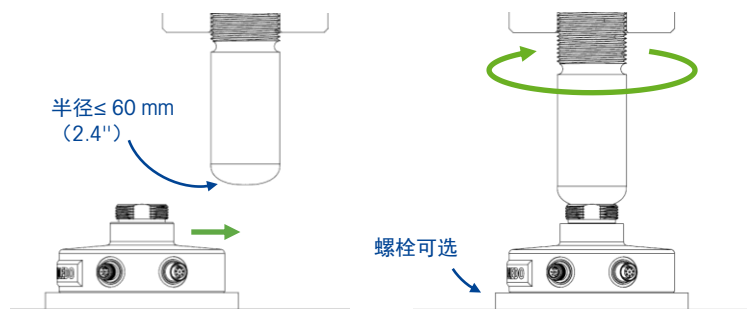


3

将传感器安装到料罐和基础上 / 调整以实现均匀载荷分布

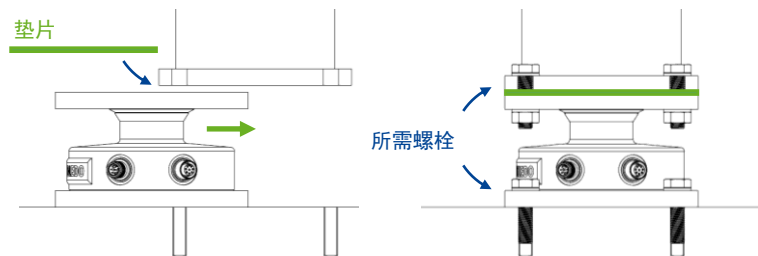
承压头安装

- ① 将传感器放置在螺杆下方
- ② 通过转动螺杆来调整负载分配



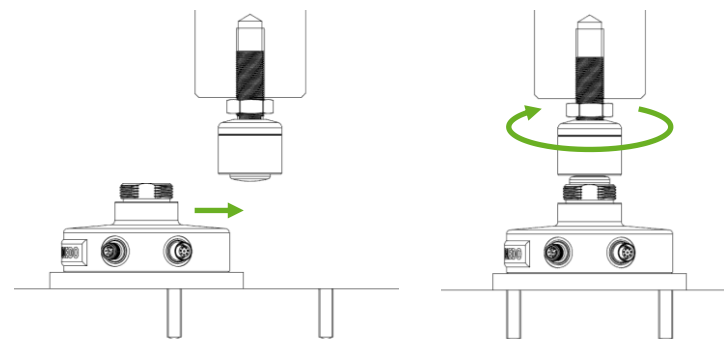
顶板安装

- ① 将传感器放置在料罐腿下方，根据需要添加垫片
- ② 安装到料罐和基础上：1† 和 3† 版本，带 M10 螺栓 ($3/8''$)，10† 和 30† 版本，带 M20 螺栓 ($3/4''$)

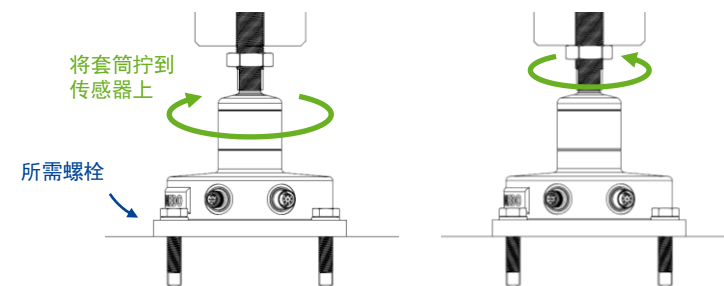


螺纹杆安装

- ① 将螺纹杆 (M20, $3/4''$) 拧入料罐腿，将传感器放置在下方
- ② 向下转动螺纹杆直至接触，将传感器居中对齐



- ③ 安装到基础上：带 M10 螺栓 ($3/8''$)
- ④ 通过转动螺纹杆调整负载分布，用副螺母固定





4

连接传感器：菊花链方式

1

以菊花链方式连接传感器。
使用梅特勒-托利多电缆或者标准工业线缆

2

将第一个传感器连接到
PLC 或IO-Link主站

3

将带LED按钮的终端电阻
连接到最后一个传感器

PLC/
IO-Link主站

传感器到主机Homerun电缆

传感器到传感器电缆

添加钣金盖选项
以保护接头

带LED按钮的终端电阻

5

用于连接PLC的引脚分配

IO-Link

2: N.C.

5: N.C.

3: GND / L-

1: VDC / L+

4: CL+ / CQ

信号	颜色
1 VDC / L+	红色
2 N.C	-
3 GND / L-	黑色
4 CL+ / CQ	绿色
5 N.C	-

4-20 mA analog / HART

信号	颜色
1 CL-	蓝
2 CL+ / CQ	白
3 准备	黄色
4 错误	粉红色
5 RS485-A+ 接口	绿
6 RS485-B-	棕色
7 GND / L-	黑
8 VDC / L+	红

安装提示和注意事项

- 避免潮湿和灰尘
- 确保电压稳定 – 使用稳压电源
- 避免过载和冲击
- 确保良好的接地

6

初始化和配置 SLL210 AnyLevel™系统

4-20 mA 模拟量

1

开机，等待 12 秒（LED 快速闪烁）。当 LED 持续亮起时，初始化完成

2

首次运行需要重置系统，请按下按钮 4 秒到 10 秒之间

3

当 LED 缓慢闪烁（1 Hz）时系统正在运行

4-20 mA HART

1

下载并集成DD文件
<https://www.fieldcommgroup.org/>

2

开机，等待 12 秒，发送初始化命令

IO-Link

1

下载并集成IODD文件
<https://ioddfinder.io-link.com/>

2

开机，等待 12 秒，发送初始化命令

