SAFELocal Control Station (Sanyata LCS)

Use Case Scenarios

Introduction

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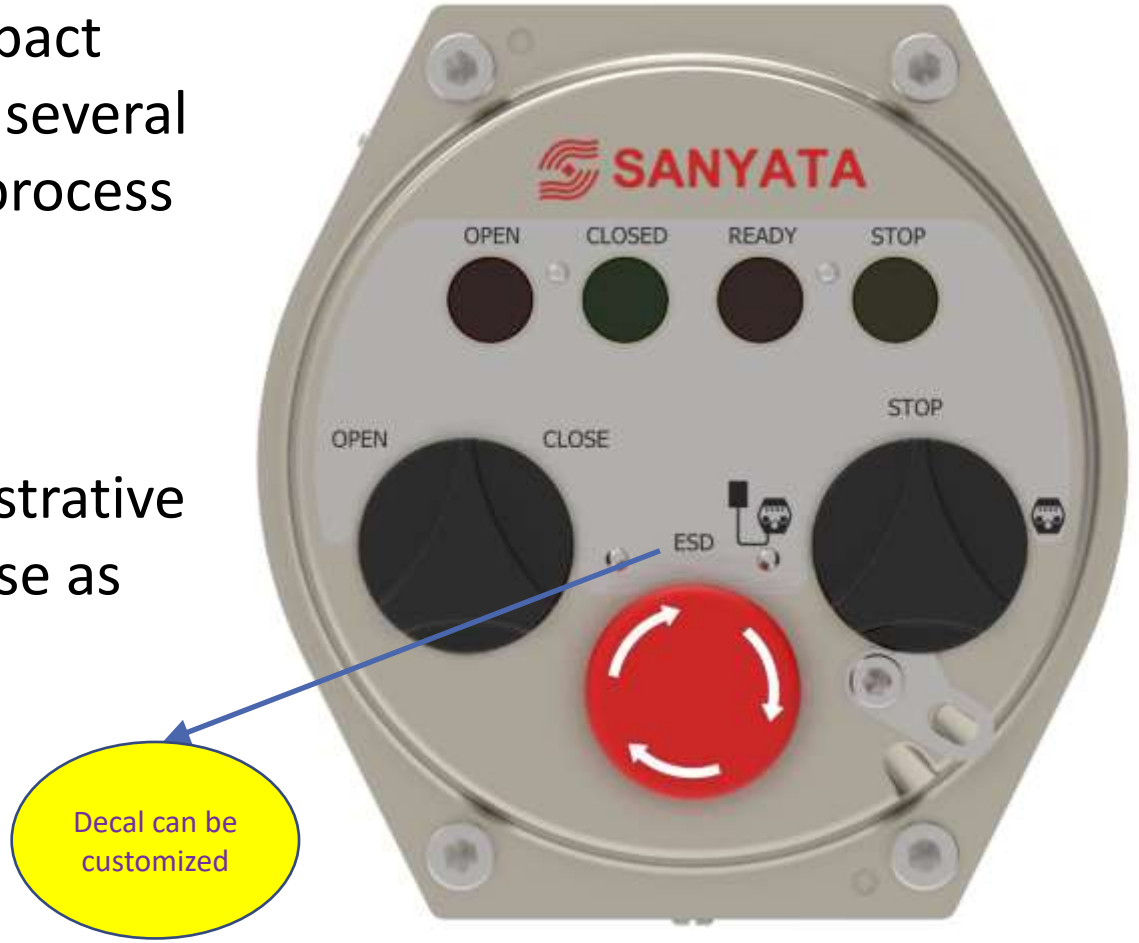
- The SAFELocal Control station is a compact junction box with wide applicability in several industries and can be used in several process safety scenarios

- The scenarios in this document are illustrative in nature and not intended for direct use as wiring or process diagrams



Local Control – Basic Scenario

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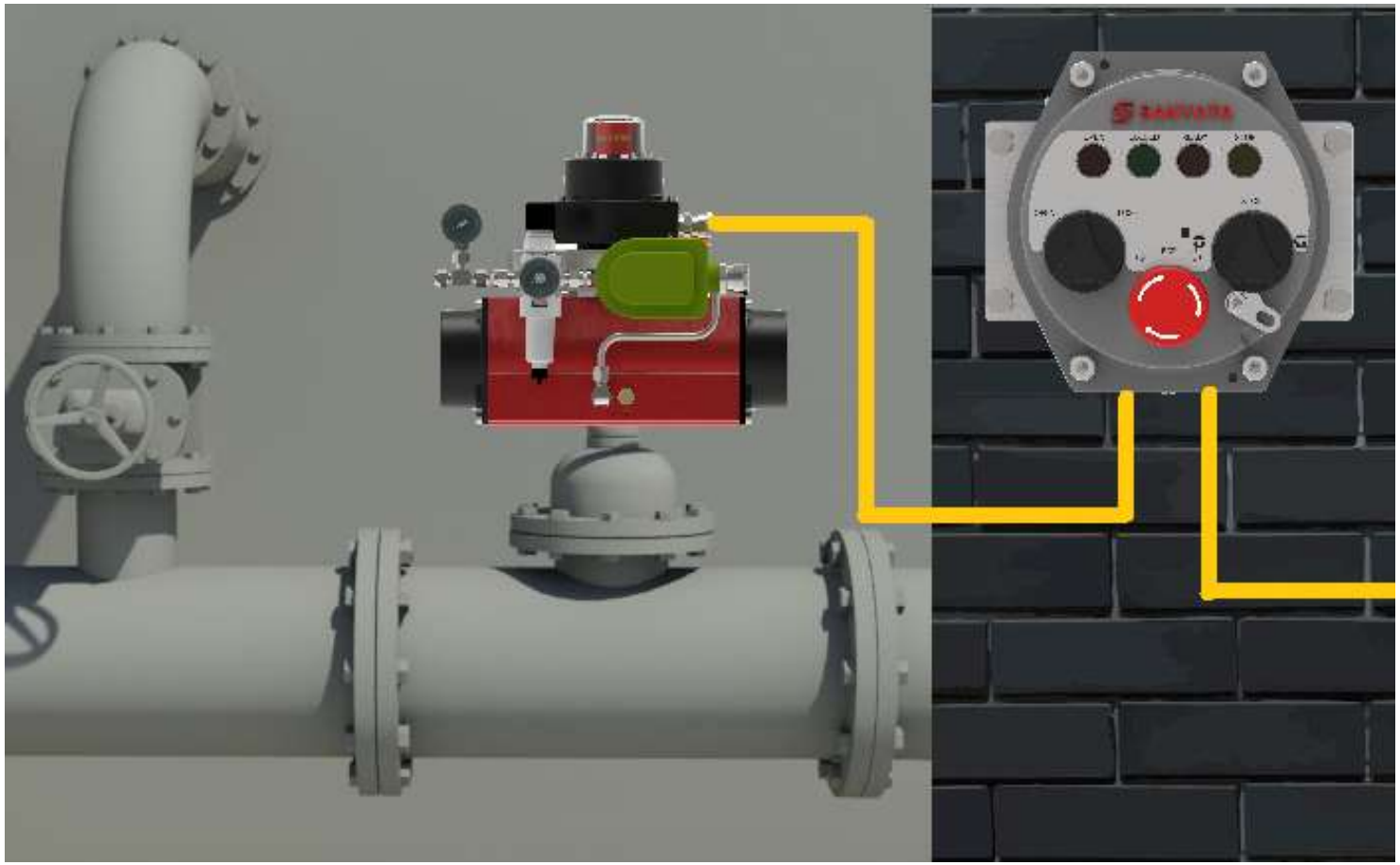
- The SAFELocal Control Station is used to control the actuator locally
- Can be used to control equipment placed in any hazardous/ inaccessible location
- Can be used with any actuator, pump or process equipment



Local Control with DCS Scenario

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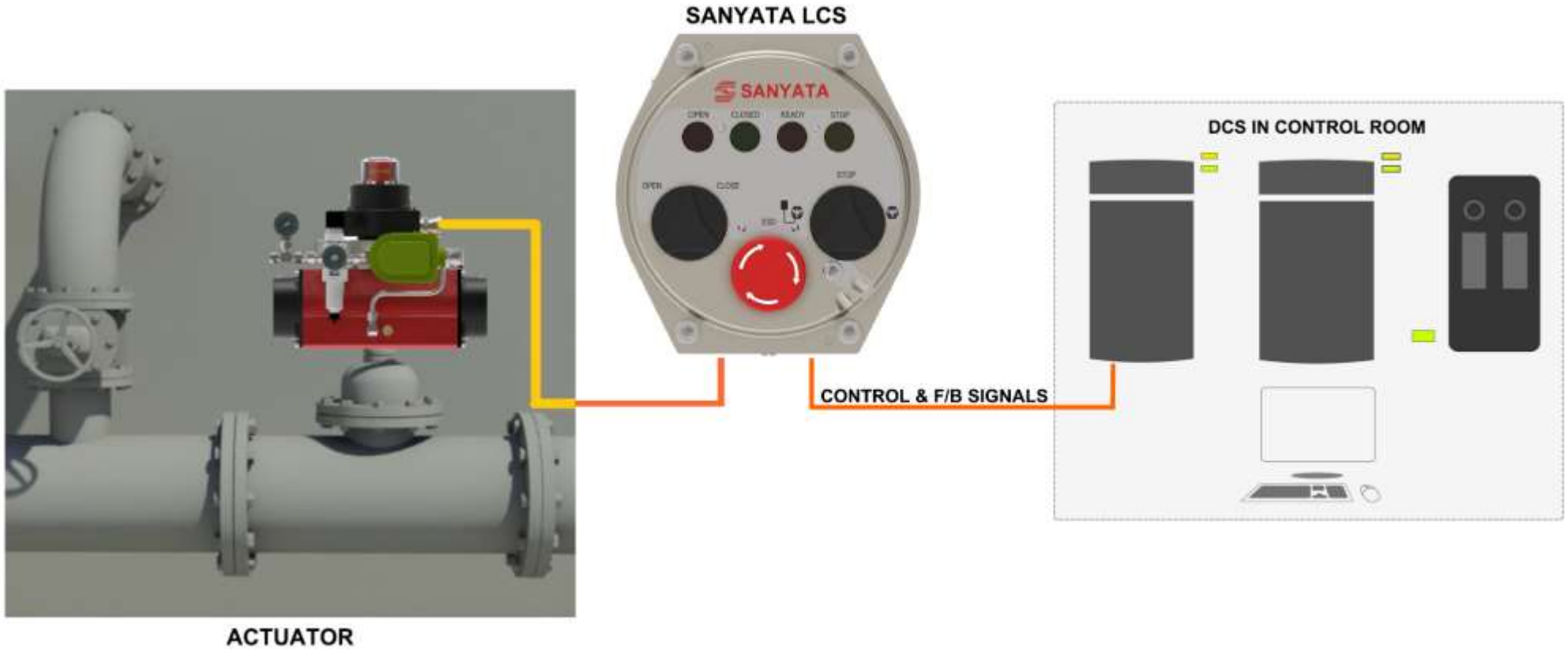
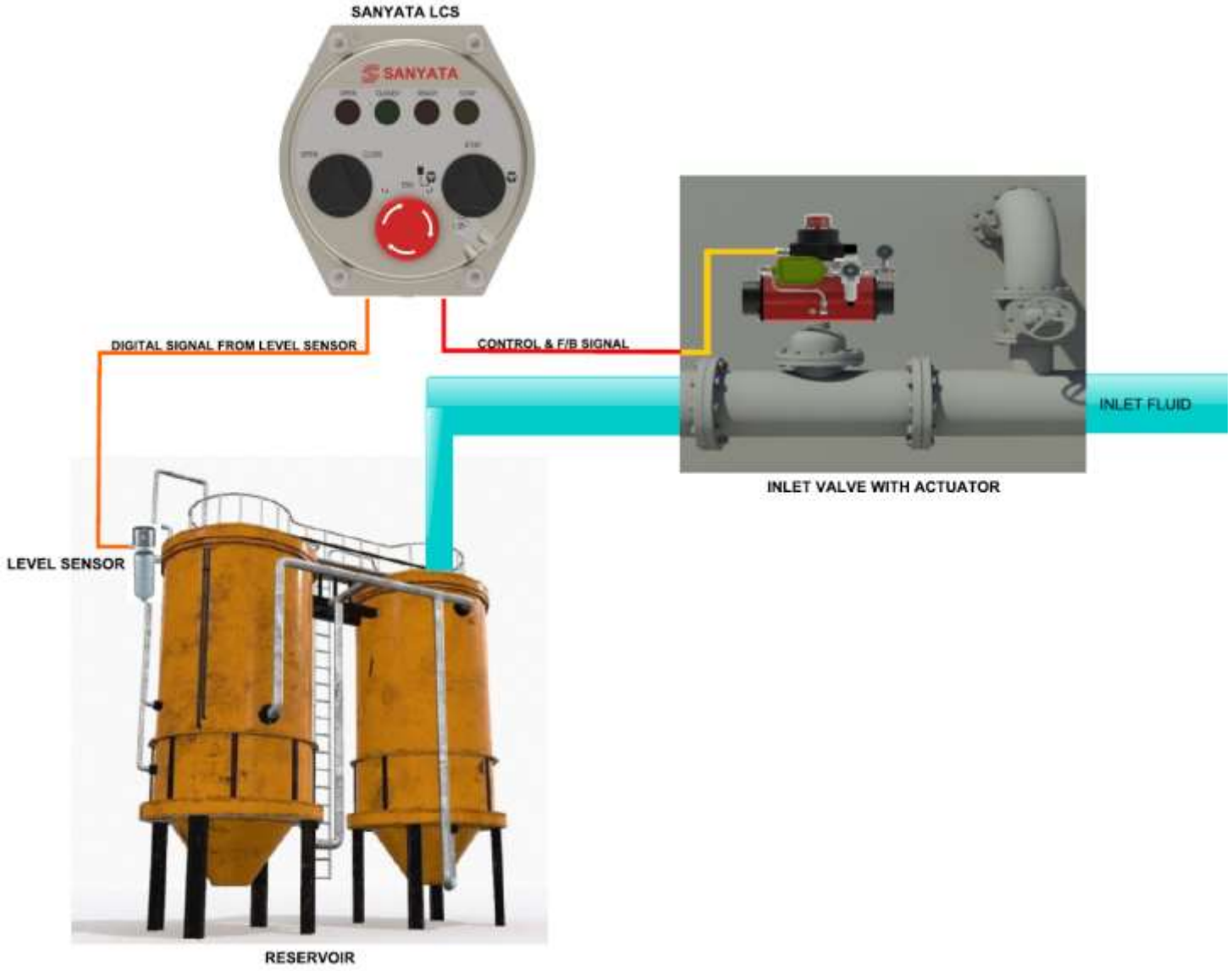


- The Remote mode of the SAFELocal Control Station allows the DCS or any remote device to control the actuator
- The SAFELocal Control Station bridges all communication protocols, digital or analog, through the provided interconnect terminals, simplifying onsite wiring

Tank Level Sensor Scenario

- The Tank Inlet valve is controlled using the SAFELocal Control Station
- A Level switch sends feedback to avoid overflow
- 24 regular + 4 powered additional terminals allow for easy wiring of the Level Switch (standard version)
- The Control signal to the actuator is routed though the level sensor in the tank. At the **FULL** level, the DPDT relay is activated and the actuator returns the valve back to closed position.



Safety Interlock Scenario

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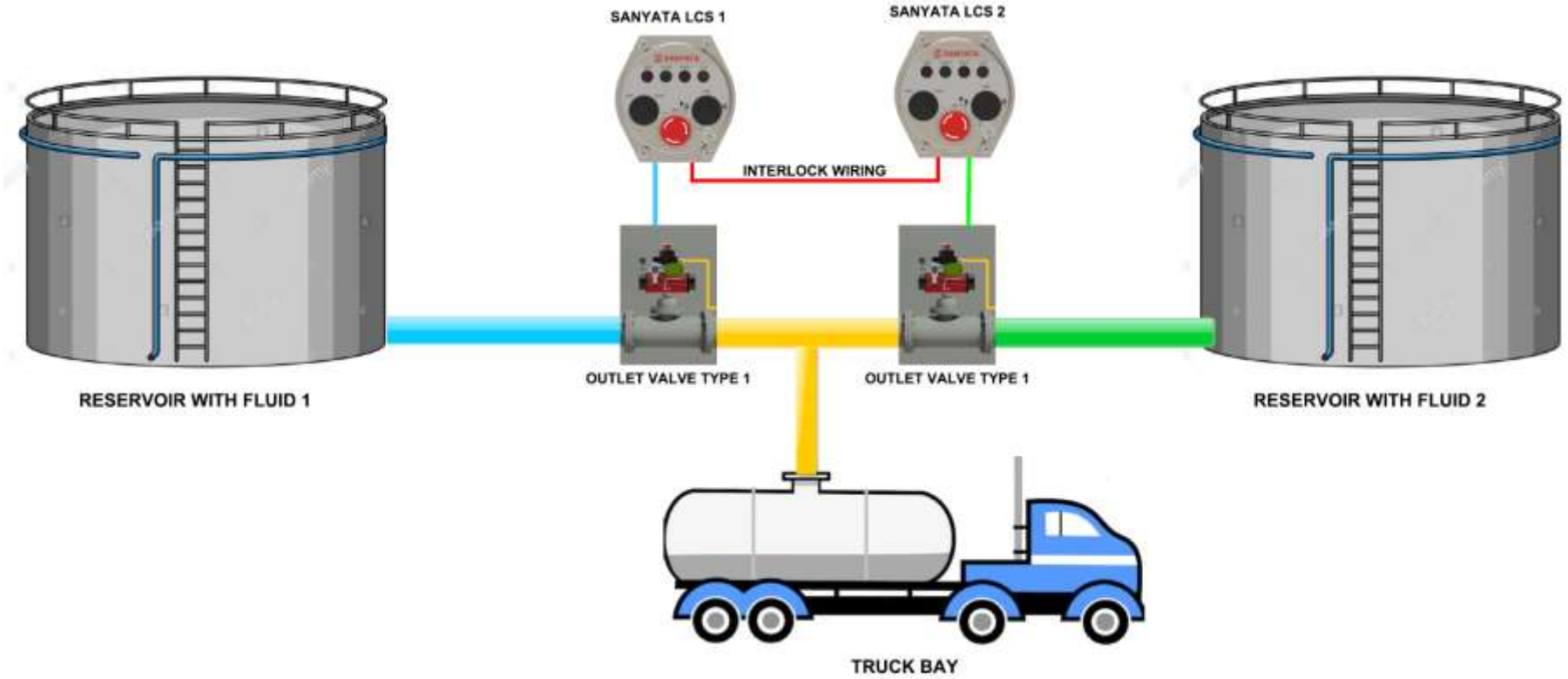

- The Interlock feature in the SAFELocal Control Station can be used for safe fluid handling
- The safety interlocks tie both actuators together and will allow one valve to open only if the other is **CLOSED**. This prevents different fluids from being mixed even in the event of operator error.

Pump Control Scenario

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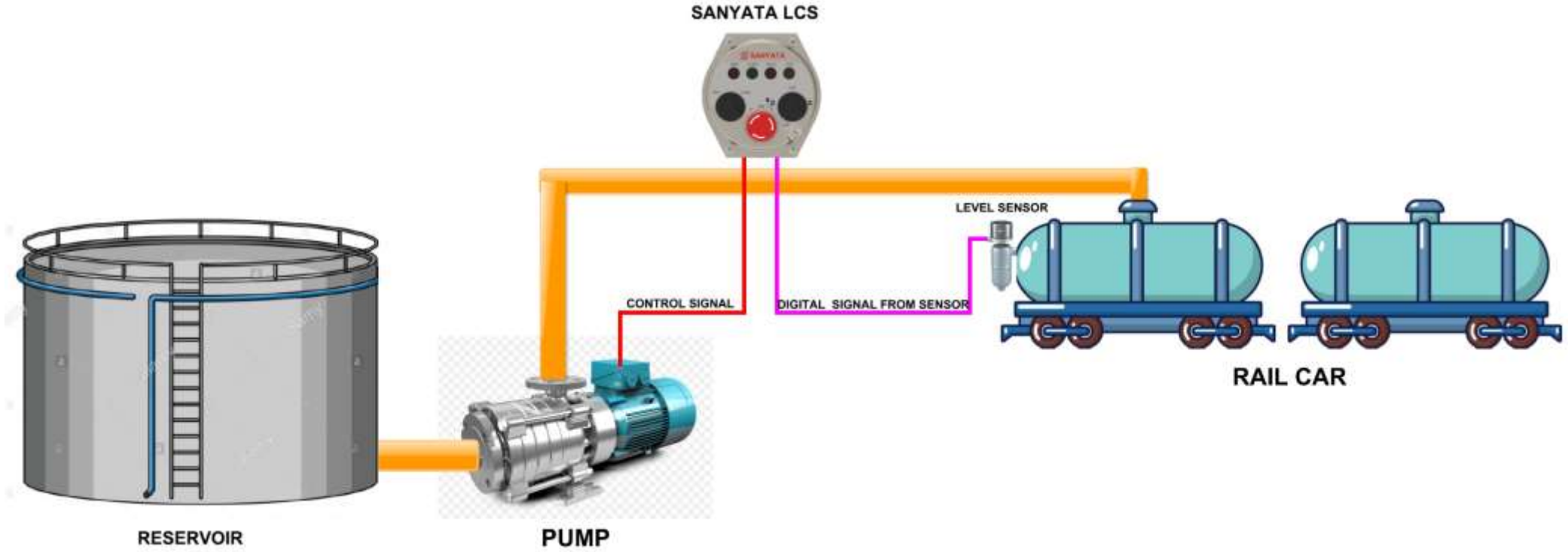

- The SAFELocal Control Station is interfaced with the pump starter for filling railcars from a reservoir
- The Level switch of the rail car is wired through the SAFELocal Control Station and will not allow the motor to run till the **MIN** level switch is active.