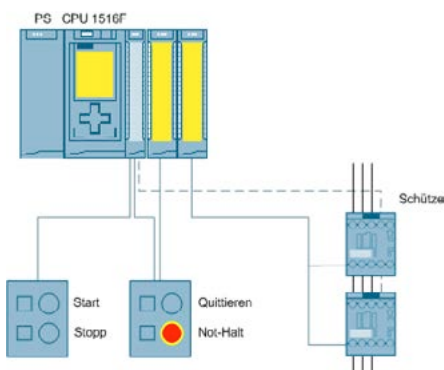


## Emergency stop up to SIL 3 / PL e with a fail-safe S7-1500 controller

In order to be able to safely switch of a machine even in an emergency situation, an emergency stop command device is attached and the actuators are controlled via two contactors. The safety function is designed up to PL e in accordance with EN ISO 13849-1 and SIL 3 in accordance with IEC 62061.

For a seamless integration into the automation process, the failsafe S7-1516F controller is used, in which standard user program and safety program run next to each other.



In order to achieve the demanded safety level, the emergency stop is designed with two channels and monitored for discrepancy and cross-circuit by the controller.

The actuators are also set up redundantly, so in case one contactor fails (e.g. welding of the contacts) the machine is still safely switched off by the second contactor.