





Soft → PLC

+ Communicating flag (set interval 500 ms)

+ Process in operate

+ New cycle started

+ Finished one cycle

+ Cycle stop

+ Cycle force stop

(when force stop, robot error stop)

+ Robot in Error

Soft → PLC

- + Communicating flag (set interval 500 ms)
- + Ready operate signal
- + Process in operate
- + New cycle started
- + Finished one cycle
- + Cycle stop
- + Cycle force stop
(when force stop, robot error stop)
- + Robot in Error
- + Matched pattern index
- + Homing finish

PLC → Soft

- + Start operate
- + Stop operate
- + Pattern index number (D)
- + Camera index number (D)
- + Direct home signal
- + Matching signal (on and rising edge when matching failed and waiting)

ready for operation ON



wait start operation



in operation signal ON



