

## Robot-limited orientation (RLO)

- Safety goal

Table 1 Safety goal for the Robot-limited orientation

| Safety Function                        | Robot-limited orientation (RLO)                                                                 |
|----------------------------------------|-------------------------------------------------------------------------------------------------|
| Safe State                             | STO state: Turn off the torque applied to the motor.<br>SOS state: Robot stop state monitoring. |
| Mean time to dangerous failure (MTTFd) | 10 years < MTTFd < 30 years                                                                     |
| Diagnostic Coverage Average (DCave)    | DCave > 90%                                                                                     |
| Common Cause Failure (CCF)             | Score : 65 or better                                                                            |
| Safety function Response time (SRT)    | 930ms(Max)                                                                                      |

- Function description

This function monitors the orientation of the tool attached to the Mechanical interface and turns the safe state when a specified threshold is exceeded

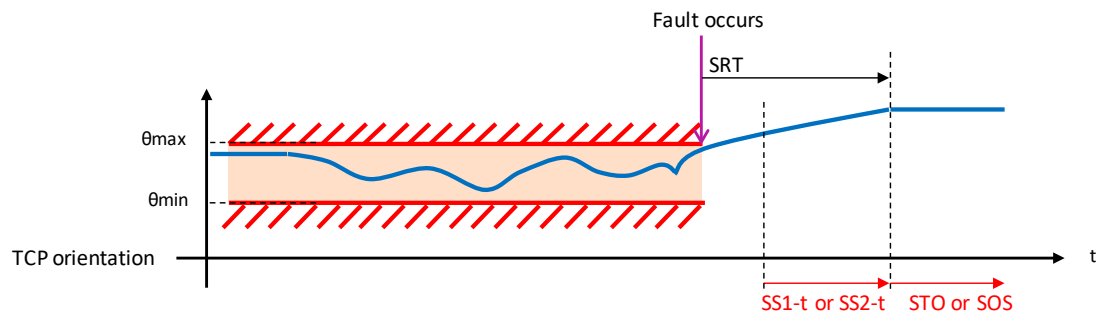


Fig. 1 Safety function response time of Robot-limited orientation