

Robot-limited position (RLP)

- Safety goal

Table 1 Safety goal for the Robot-limited position

Safety Function	Robot-limited position (RLP)
Safe State	STO state: Turn off the torque applied to the motor.
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)	50ms(Max)

- Function description

This function monitors the position of specified parts on the robot (Mechanical interface point, TCP, other specified parts) so that they do not exceed the predetermined motion range (Pmin to Pmax).

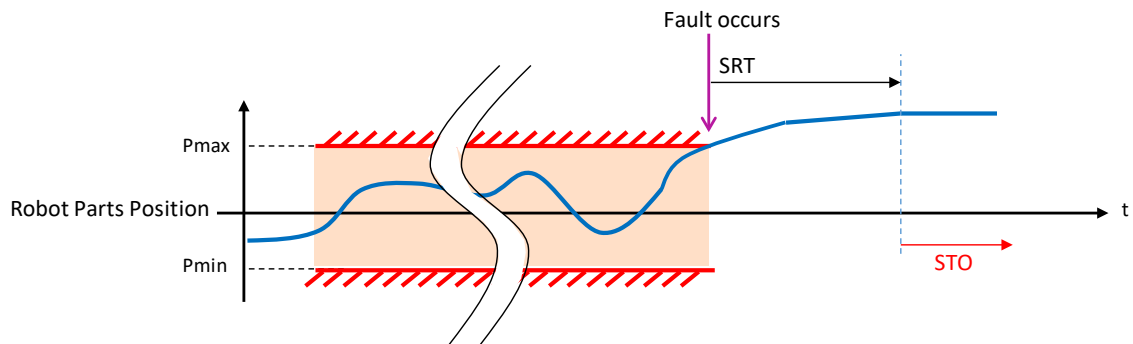


Fig. 1 Safety function response time of Robot-limited position