

Robot-limited speed (RLS)

- Safety goal

Table 1 Safety goal for the Robot-limited speed

Safety Function	Robot-limited speed (RLS)
Safe State	STO state: Turn off the torque applied to the motor. 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 speed of specified parts on the robot (Mechanical interface point, TCP, other specified parts) so that they do not exceed the specified limit. When the operation mode is manual mode, the monitoring speed changes to 250 mm/s or less.

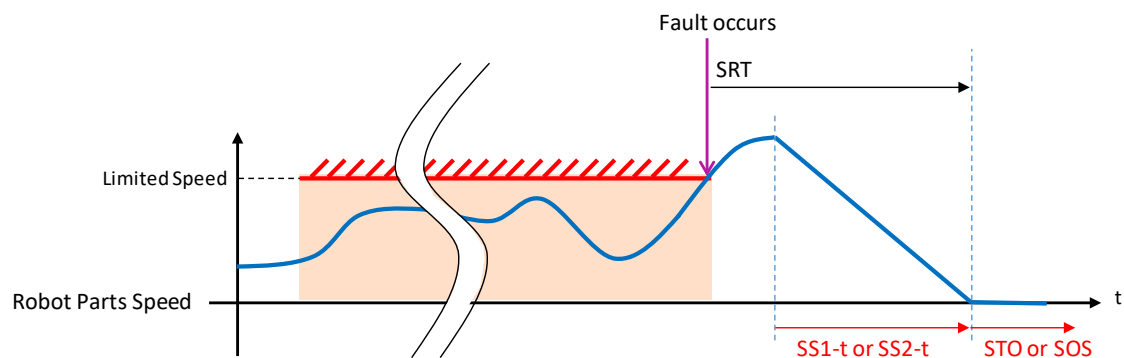


Fig. 1 Safety function response time of Robot-limited speed