

Safely Operating Stop (SOS)

● Safety goal

Table-1 Safety goal for the Safe Operating Stop

Safety Function	Safe Operating Stop (SOS)
Safe State	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)	30ms(Max)

● Function description

Once the SOS turns on, the system starts monitoring the robot so that it does not deviate from the stop position. Energy is supplied to the motor.

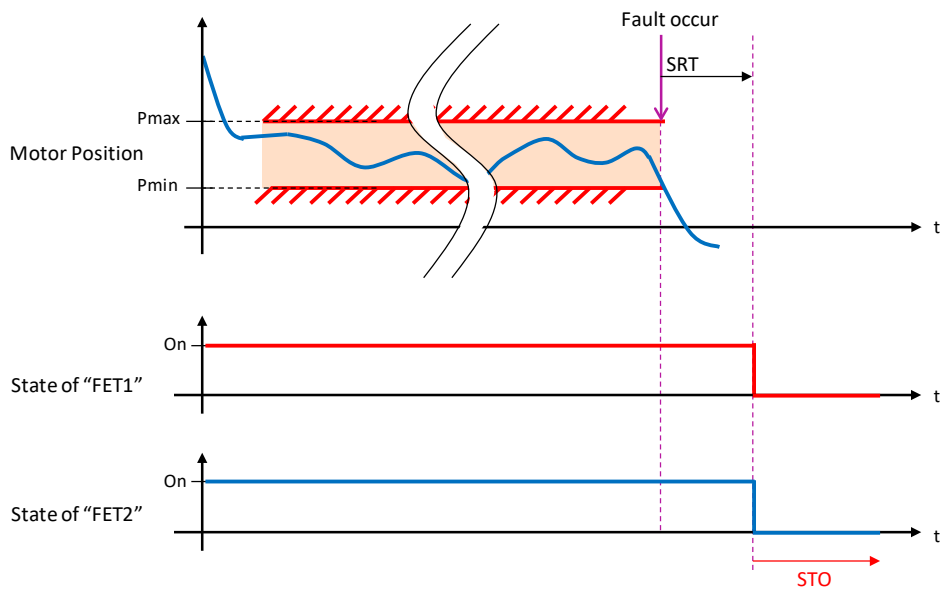


Fig. 1 Safety function response time of Safe Operating Stop