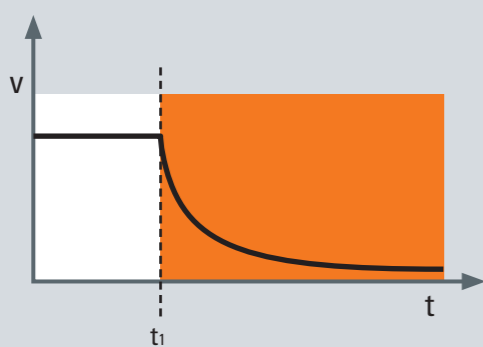


Sicherheitsfunktionen für die Antriebstechnik

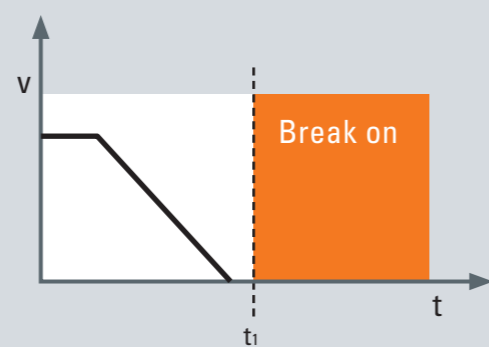


Sicheres Abschalten



STO – Safe Torque OFF
Sicher abgeschaltetes Moment

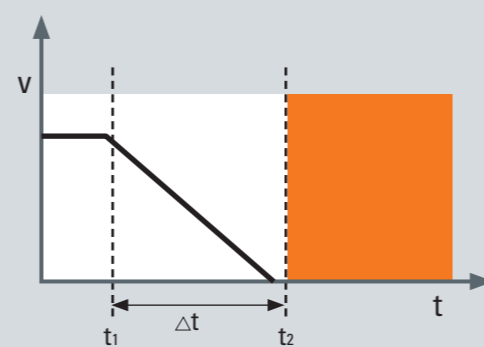
Sichere Abschaltung des Drehmomentes am Antrieb durch sofortiges Abschalten der Energiezufuhr.



SBC – Safe Break Control
Sichere Bremsenabschaltung

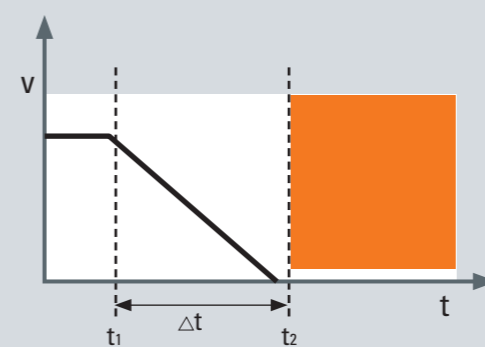
Sichere Trennung der Energie zur Bremse. Dadurch kann ein Bremsmoment erzeugt werden.

Sicheres Stillsetzen



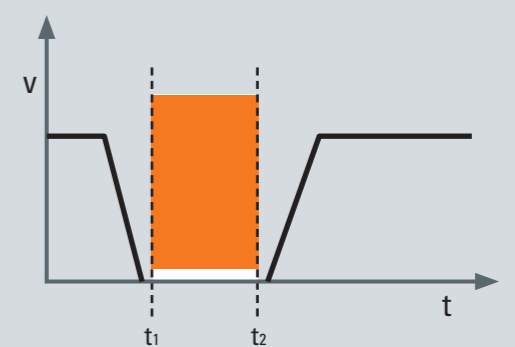
SS1 – Safe Stop 1
Sicherer Stopp 1

Sicher überwacht Stillsetzen mit anschließender Abschaltung des Drehmoment am Antrieb.



SS2 – Safe Stop 2
Sicherer Stopp 2

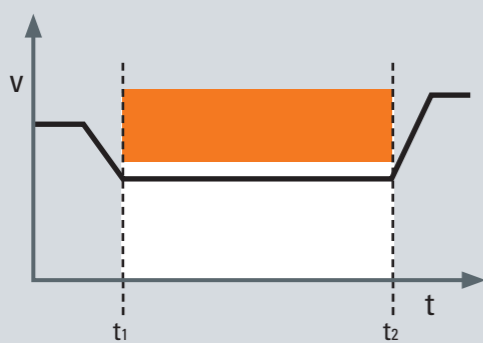
Sicher überwacht Stillsetzen mit anschließender Stillstandsüberwachung bei anstehendem Drehmoment.



SOS – Safe Operating Stop
Sichere Überwachung des Stillstands

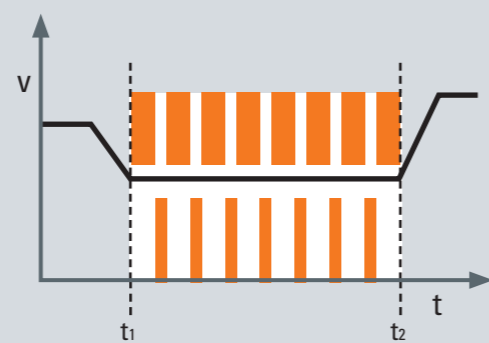
Der Antrieb wird elektrisch in seiner Position gehalten.

Sicheres Bewegen



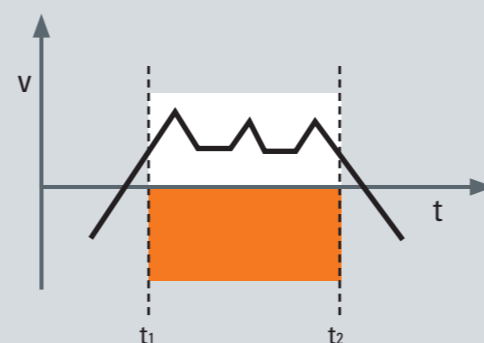
SLS – Safely-Limited Speed
Sicher begrenzte Geschwindigkeit

Sichere Überwachung einer reduzierten Geschwindigkeit des Antriebs.



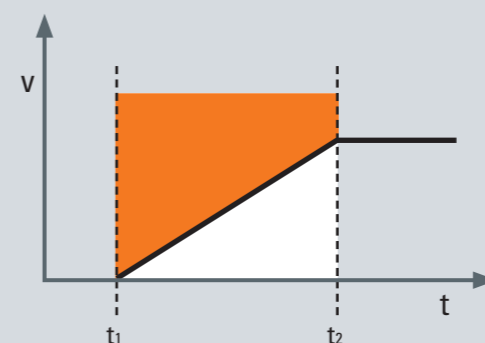
SSR – Safe Speed Range
Sicherer Geschwindigkeitsbereich

Die sicher überwachte Geschwindigkeit muss sich innerhalb eines Korridors befinden.



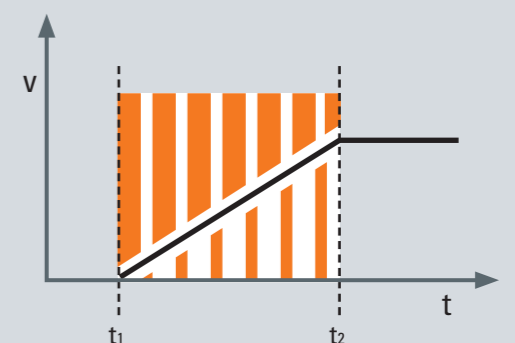
SDI – Safe Direction
Sichere Bewegungsrichtung

Die Bewegungsrichtung des Antriebs wird sicher überwacht.



SLA – Safely-Limited Acceleration
Sicher begrenzte Beschleunigung

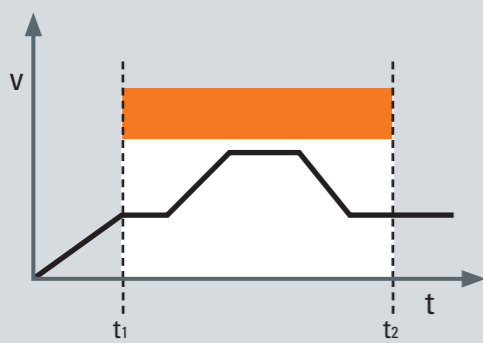
Die maximale Beschleunigung des Antriebs wird sicher überwacht.



SAR – Safe Acceleration Range
Sicherer Beschleunigungsbereich

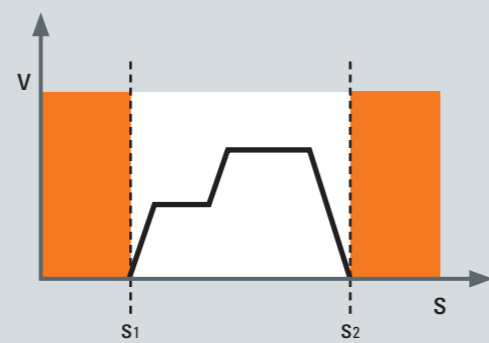
Die sicher überwachte Beschleunigung muss sich innerhalb eines Korridors befinden.

Sicheres Monitoren



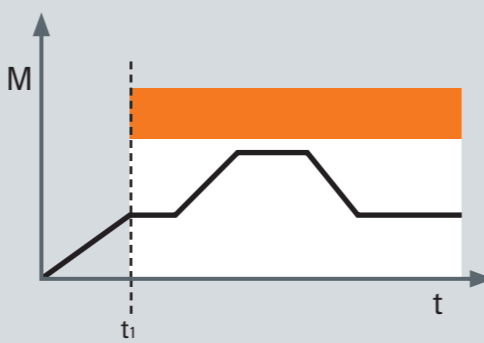
SSM – Safe Speed Monitor
Sichere Geschwindigkeitserfassung

Sichere Überwachung eines Geschwindigkeitsbereiches.



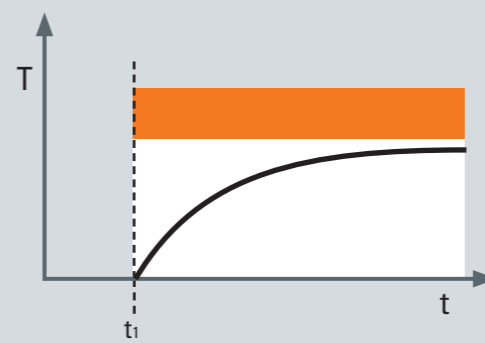
SCA – Safe Cam
Sichere Nocken

Sicheres Überwachen eines definierten Positionsbereiches.



SLT – Safely-Limited Torque
Sicher begrenztes Drehmoment

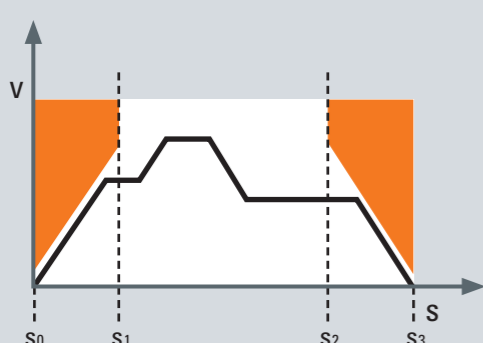
Sichere Überwachung eines maximalen Drehmoments.



SMT – Safe Motortemperatur
Sichere Motortemperatur

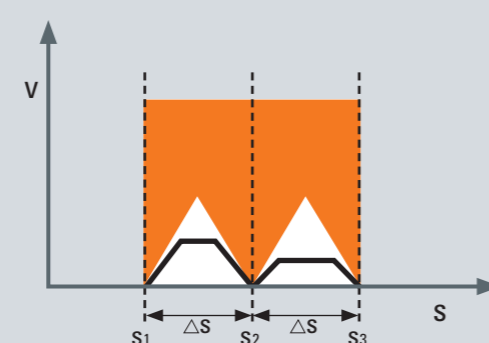
Sichere Überwachung einer maximalen Motortemperatur.

Sicheres Positionieren



SLP – Safely-Limited Position
Sicher begrenzte Position

Sichere Überwachung von Grenzpositionen = sichere Software-Endschalter.



SLI – Safely-Limited Increment
Sicher begrenztes Schrittmaß

Sichere Überwachung eines Schrittmaßes für den Tippbetrieb.

Weitere Informationen zu Lösungen mit Sendix-SIL Drehgebern und Safety-M

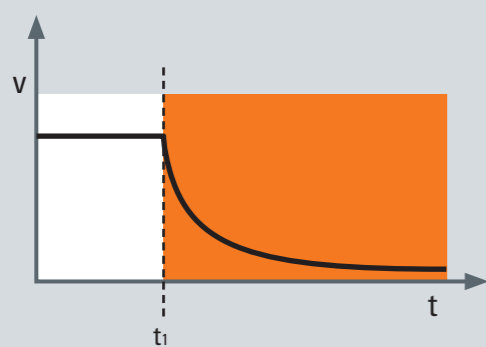
Sicherheitsmodulen finden Sie unter: www.kuebler.com/sicherheit

Oder per mail: safety@kuebler.com

Safety Functions for the Drives Technology

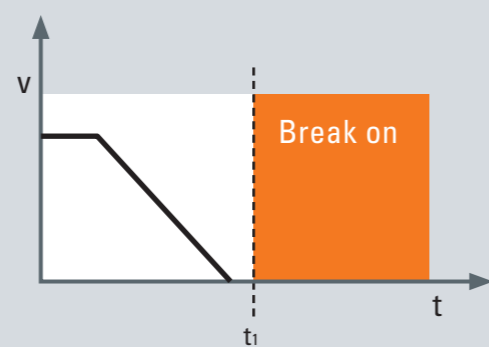


Safe Switch-Off



STO – Safe Torque OFF

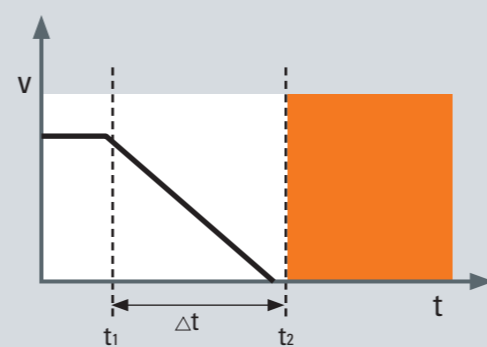
Safe disabling of the torque on the drive by means of an immediate switching off of the energy supply.



SBC – Safe Brake Control

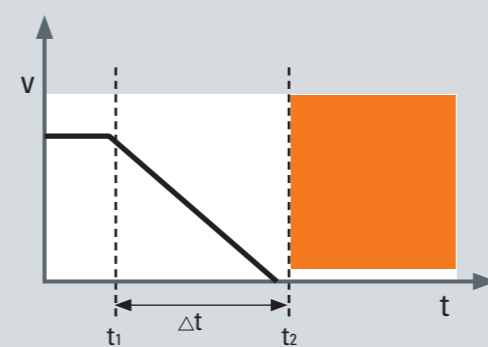
Safe de-energizing of the brake. This allows generating a braking torque.

Safe Standstill



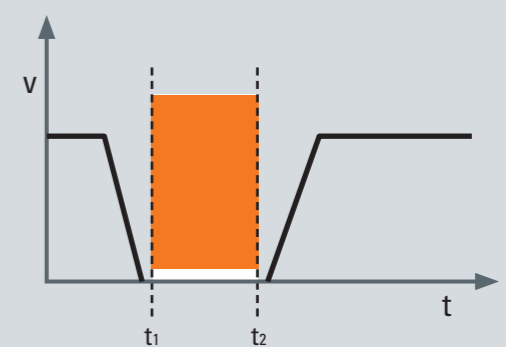
SS1 – Safe Stop 1

Safe monitored standstill followed by the disabling of the torque on the drive.



SS2 – Safe Stop 2

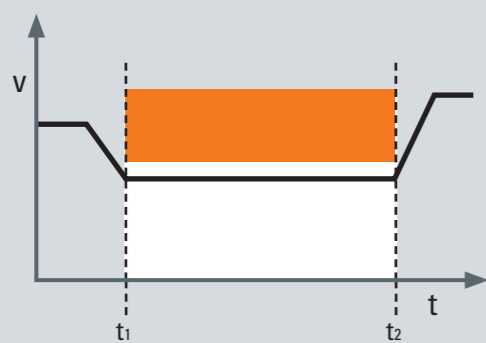
Safe monitored standstill followed by standstill monitoring, while the torque remains enabled.



SOS – Safe Operating Stop

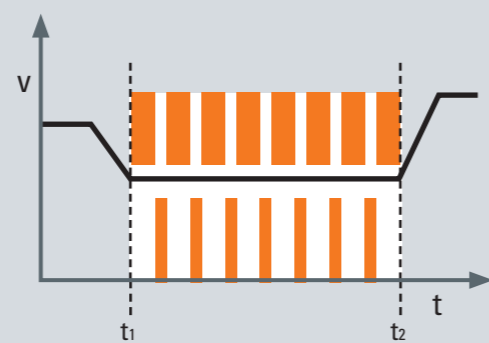
The drive is maintained in its position electrically.

Safe Motion



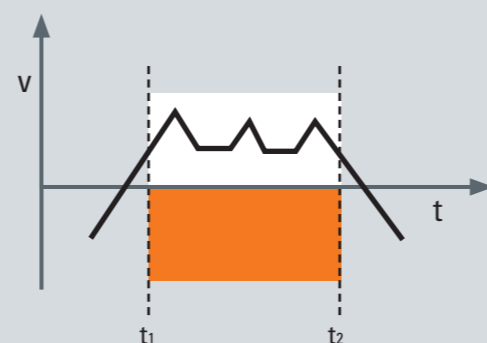
SLS – Safely-Limited Speed

Safe monitoring of a reduced drive speed.



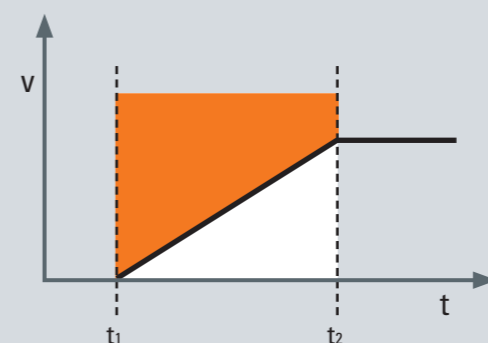
SSR – Safe Speed Range

The safely monitored speed must be within a corridor.



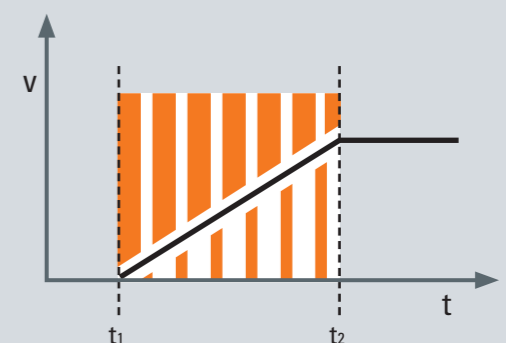
SDI – Safe Direction

Safe monitoring of the direction of movement of the drive.



SLA – Safely-Limited Acceleration

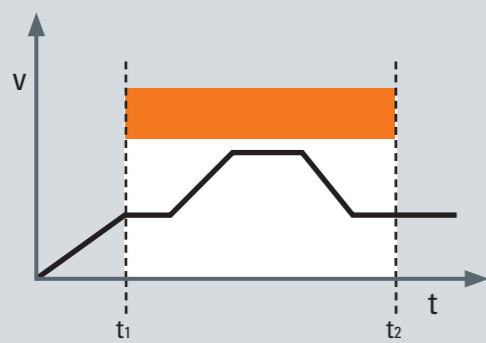
Monitoring of the maximum acceleration of the drive.



SAR – Safe Acceleration Range

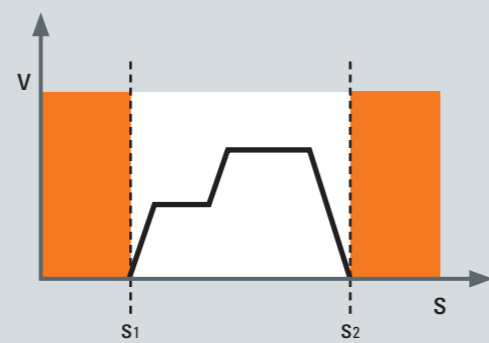
The safely monitored acceleration must be within a corridor..

Safe Monitoring



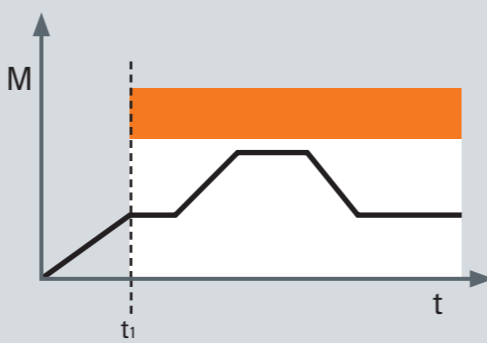
SSM – Safe Speed Monitor

Safe monitoring of a speed range.



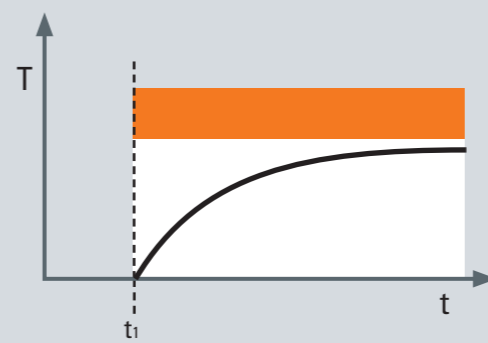
SCA – Safe Cam

Safe monitoring of a defined position range.



SLT – Safely-Limited Torque

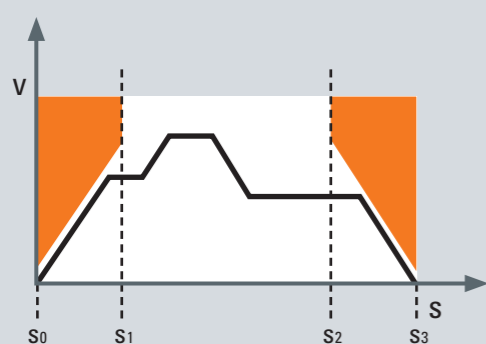
Safe monitoring of a maximum torque.



SMT – Safe Motor temperature

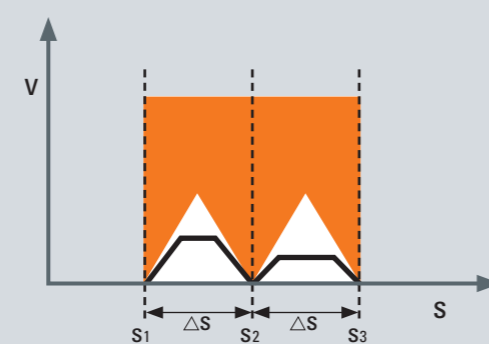
Safe monitoring of a maximum motor temperature.

Safe Positioning



SLP – Safely-Limited Position

Safe monitoring of limit positions = safe software limit switches.



SLI – Safely-Limited Increment

Safe monitoring of an increment for the jog mode.

You will find further information about solutions with Sendix-SIL encoders and Safety-M safety modules under: www.kuebler.com/safety

Or via e-mail: safety@kuebler.com

