Application example: Conveyor

Safely-limited Speed (SLS)

- Safety Function: Monitor safe speed of conveyor when SafeZone® Area Scanner detects person in warning zone

- STO is suspended if at speed limit before person crosses area scanner safety zone

843ES Speed Feedback

Area Scanner Warning Field Signal
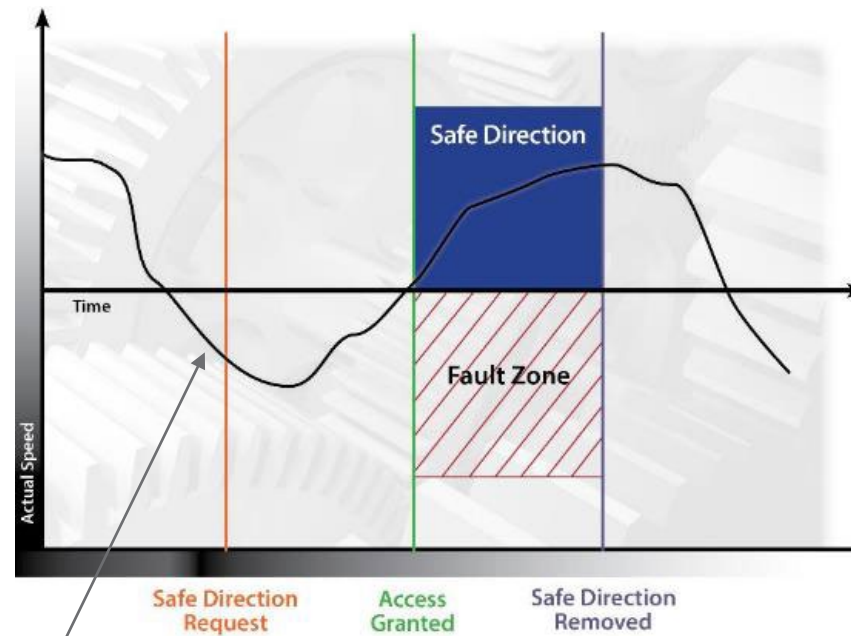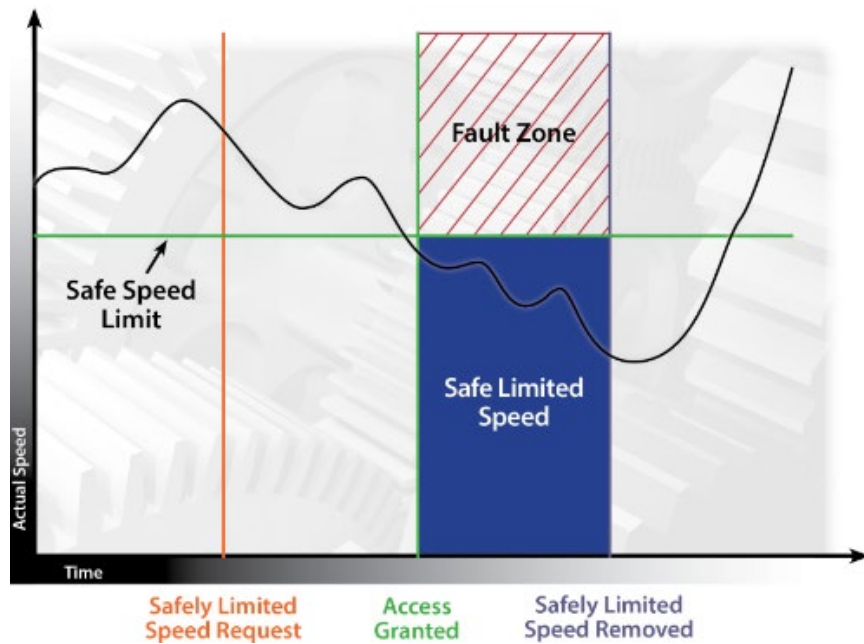
Safety Task

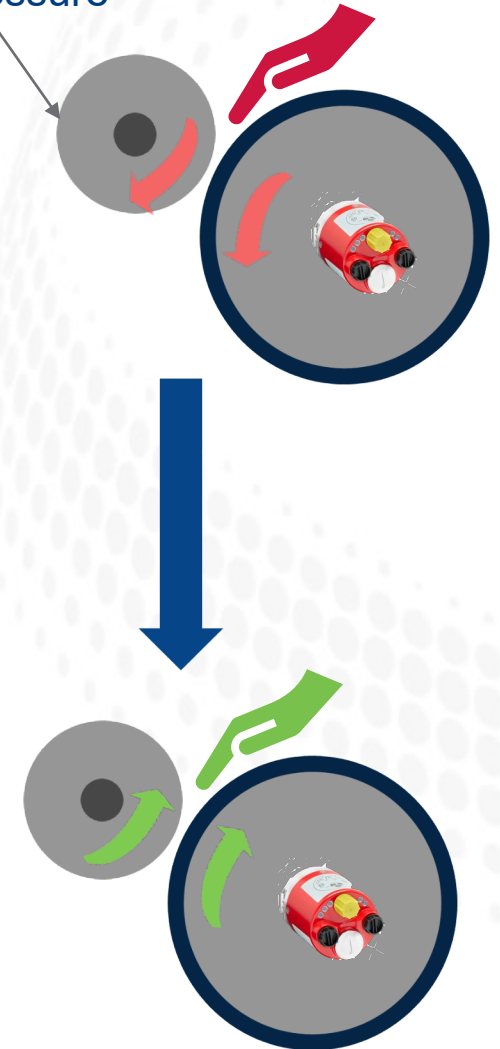# Application example: Print roll cleaning

Safely-limited Speed (SLS) and Safe Direction (SDI)

- Safety Function: Monitoring speed and direction of rolls when cleaning

- Protectors operator from running nip points

- Operation is allowed only in safe direction

Idler roll to keep pressure

Fault Zone

Safe Speed Limit

Safe Limited Speed

Actual Speed

Time

Safely Limited Speed Request

Access Granted

Safely Limited Speed Removed

Safe Direction

Time

Fault Zone

Actual Speed

Safe Direction Request
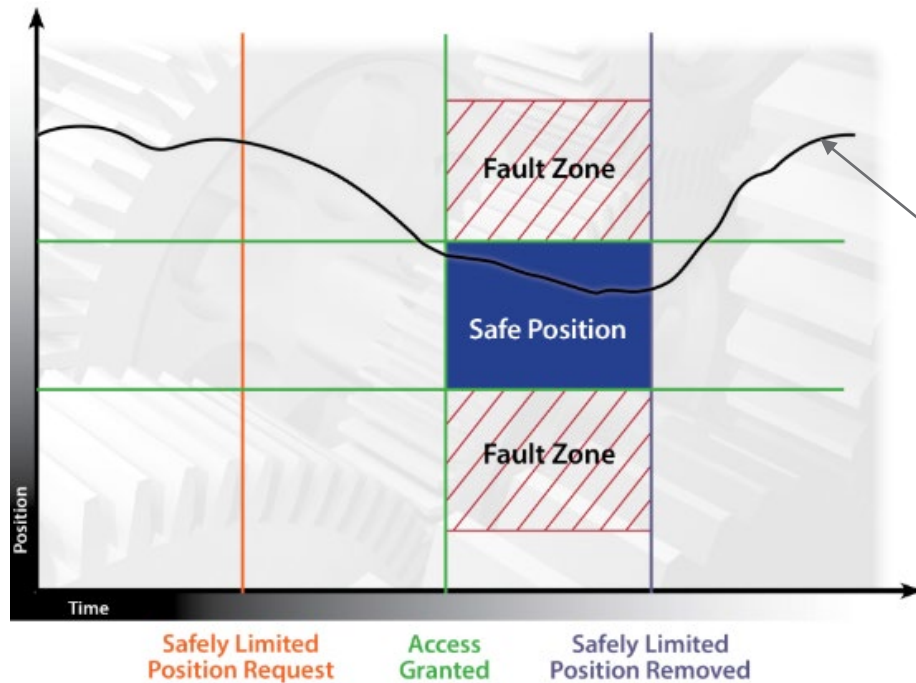
Access Granted

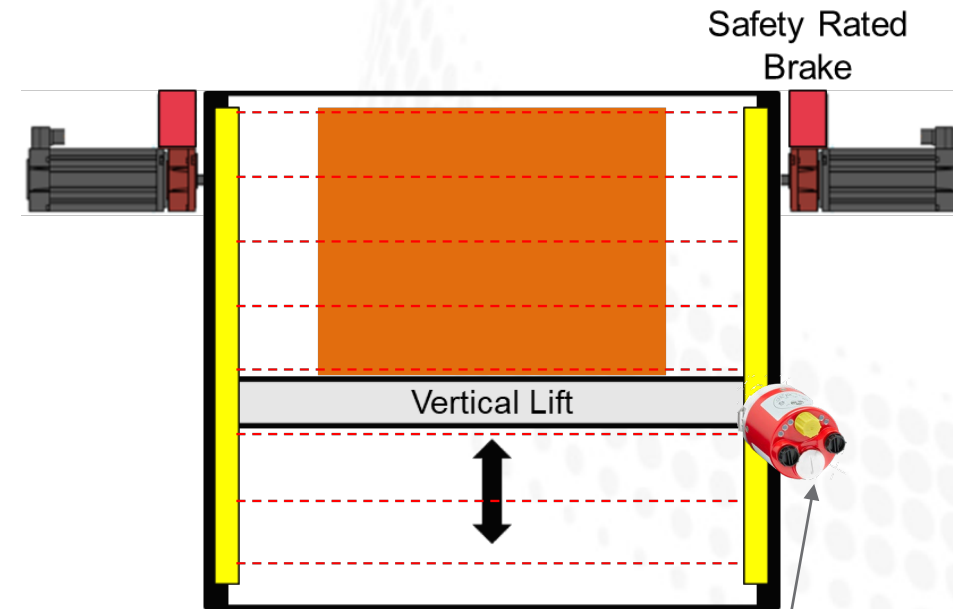Safe Direction Removed

Monitoring direction when cleaning

Application example: Vertical lift/Hoist

Safely-limited Position (SLP)

- Safety Function: Monitor lift position for pre-defined safe state

- Once load is in safe state, set mechanical brakes

- Position of encoder determines when safe to engage mechanical brakes

Monitor position to indicate when safe to engage safety brakes

843ES provides position integrity of the vertical load