

Safe-System

LES03 / SGT02



Electronic overspeed governor

To trigger electromechanical safety gears, the SIL3-certified sensor Ants LES03 can be combined with the SIL3-certified Safety Gear Trigger SGT02. This means that classic mechanical solutions with all the relevant components can be replaced. This reduces both the complexity in the installation process and the number of components in the safety circuit of the elevator system.

The state of the safety gear is constantly monitored by the SGT02 and can also be safely and easily reset after safe tripping. The safe system not only provides a high level of safety for passengers, but also realizes refuge spaces during the installation and maintenance of the elevator systems (shield mode).

Perfectly suited for the modernization of elevator systems!



Features and benefits

• Electronic overspeed governor

In combination with the sensor Ants LES03, the SGT02 can replace traditional mechanical overspeed governors.

• Control-independent

The electromechanical safety gear is triggered independently of the control system, making the system ideal for modernization projects.

• Absolute position detection

In addition to the function as electronic speed limiter, the 100% slip-free recorded position data can optionally be transmitted to the control via CANopen Lift. CAN/SSI/RS485 are also possible on request.

Overspeed

When the Ants LES03 sensor detects an overspeed, the SGT02 triggers the electromechanical safety gear. The system can be combined with different safety gears available on the market.

• Condition monitoring and reset

The SGT02 also takes over the monitoring and resetting of the respective safety gear. In addition to direct evaluation, the status information can also be processed by a control system if required.

 Establishment of refuge spaces (Shield-Mode) In addition to safety for assembly personnel in accordance with the requirements of EN 81-21, the Shield mode of the SGT02 sets new standards for the safety of installation, service and maintenance personnel.

Even during scaffold-free assembly, the system independently forms position- and speed-dependent refuge spaces.

• Self learning system

Due to the respective highest and lowest approached position in the elevator shaft, refuge spaces are automatically produced.

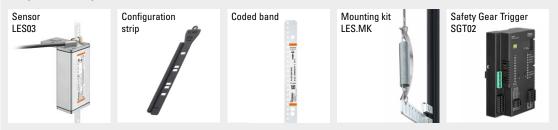
Easiest validation

From plant approval to annual inspection - the reduced complexity simplifies validation processes and guarantees the highest safety standards.

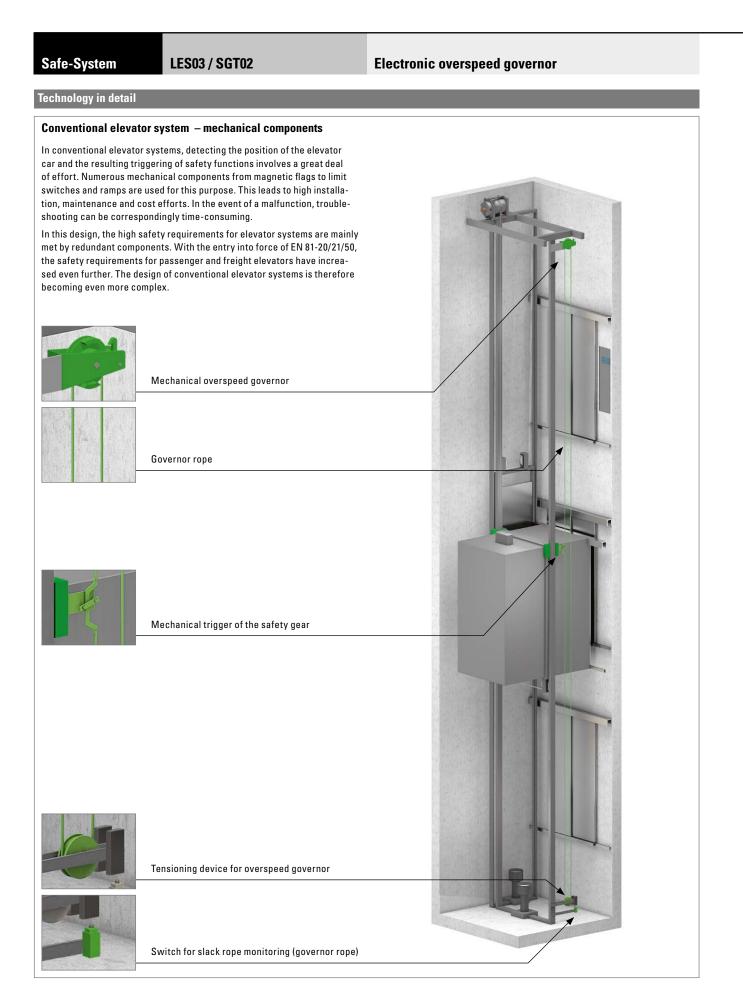
• Visual and audible status indication

All safety-relevant parameters can be checked quickly. The simple menu navigation as well as visual and acoustic assistance will inspire not only installers but also approved inspection agencies (ZÜS).

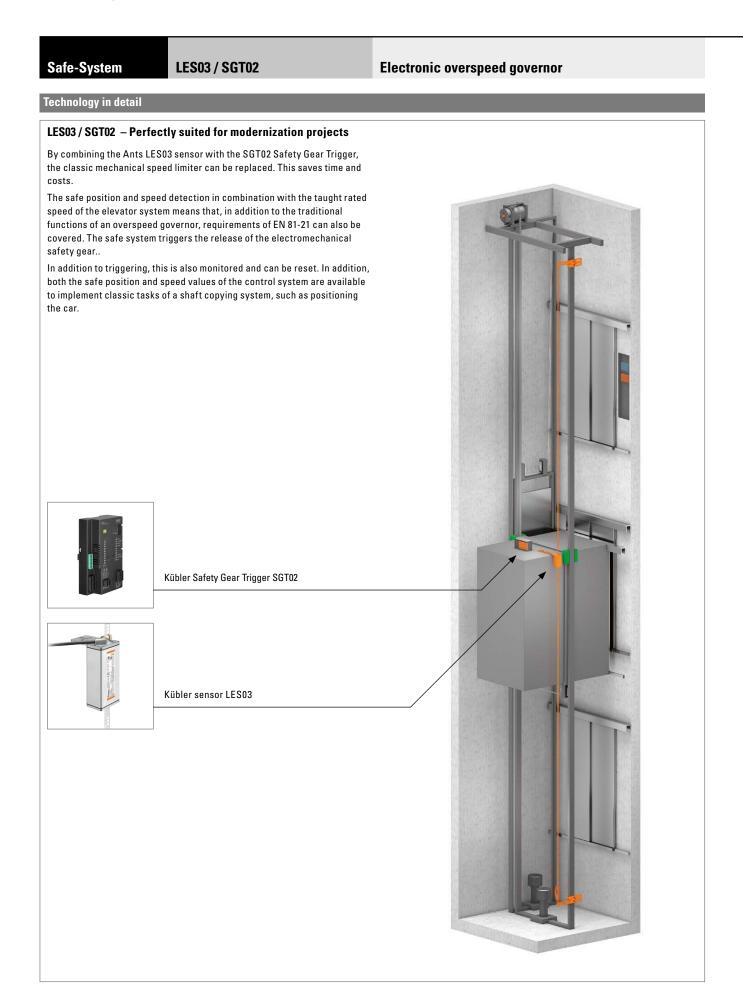
Required components for the use of the LES03 / SGT02 Safe-System









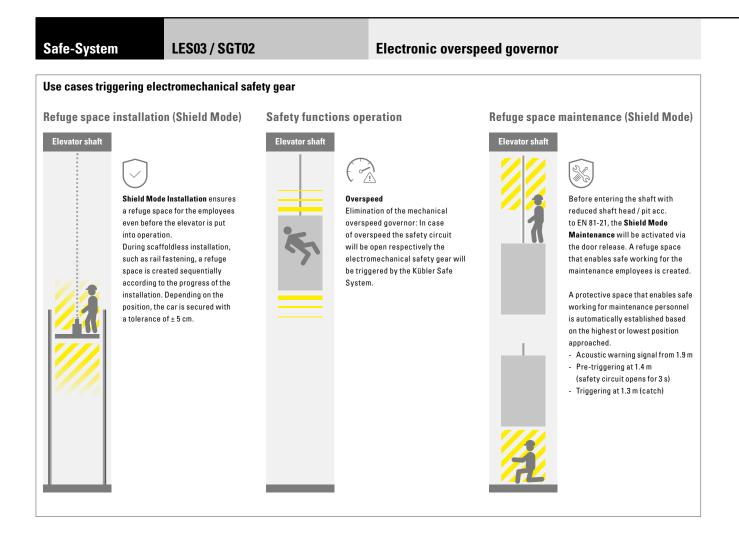




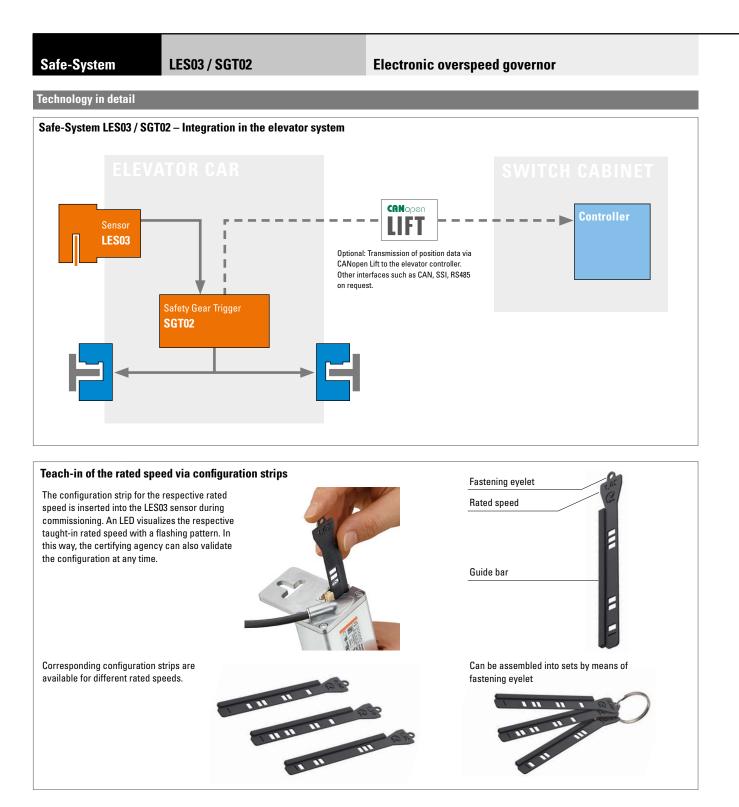
Safe-System	LES03 / SGT02	Electronic overspeed governor						
Kübler Safe-System								
Realizable elevator a	nd Safety functions	Standard references	SIL	Safe-System LES03 / SGT02				
Absolute position feedba	ack	no standard reference	-	✓				
Overspeed pretripping 115 %		EN 81-20: 5.6.2.2.1.6	2	✓				
Triggering electromech. safety gear in case overspeed		EN 81-20: 5.6.2.2.1	3	✓				
Status control of electromechanical safety gear		EN 81-20: 5.6.2.1.5	1	✓				
Reset control of electromech. safety gear		no standard reference	3	✓				
Triggering electromecha	nical safety gear in case of upwards movement	EN 81-20: 5.6.6.5	2	✓				
Triggering electromechanical safety gear in case of activating emergency braking switch		no standard reference	3	✓				
Inspection limit switch v	vithin reduced shaft head / pit	EN 81-21: 5.5.3.4, 5.7.3.4	2	✓				
Shield Mode: triggering of	electromechanical safety gear for ensuring refuge spa	ce EN 81-21: 5.5.2.3, 5.7.2.3	2	✓				
Triggering switch for opening safety circuit (within reduced shaft head / pit)		EN 81-21: 5.5.2.3.3 f)	2	✓				
Reset device control		EN 81-21: 5.5.3.3 c)	2	✓				
Shield Mode: refuge space during scaffoldless installation		no standard reference	3	✓				
Overspeed during inspection (0.63 m/s)		EN 81-20: 5.12.1.5.1 e)	-	✓				
Safe configuration mana	gement for accelerated approval process	no standard reference	-	✓				

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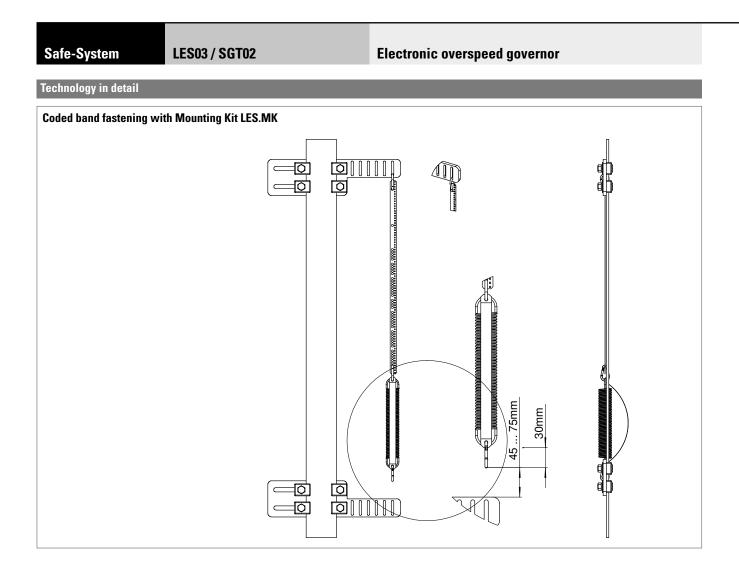














Safe-System	LES03 / SGT02	Electronic oversp	Electronic overspeed governor				
Order code Sensor	8.LES03 . X 1 1 X . 11 1 1 _{Type} . X 1 0 0	. 0000					
 Type of mounting 1 = with mounting plate 2 = without mounting plate (T 	-slot mounting)	 Interface profile 11 = CAN (1-channel), proj 					
 Interface / supply voltage 1 = CAN / 10 30 V 		1 = not preset The rated speed must	 Rated speed of the elevator system 1 = not preset The rated speed must be taught in once with the "Configuration strip". The speed for the installation mode is preset with 0.3 m/s. 				
Type of connection 1 = cable, 3 m [9.84'], open ca A = cable, special lengths, sh							
 *) Special lengths on request: 5 m, 7 m, 10 m order code expansion .XXXX = length in dm ex.: 8.LES03.111A.1111.0000.0050 (for cable length 5 m) 							
Order code	8.CS . 1111 . XXXX	1					
Configuration strip <i>Rated speed</i> XXXX = cm/s	Type 2						
Order code	8.LEX.BA	1					
Coded band, absolut <i>Measuring lengths</i>	e Type a			Stock types			
XXXX = lengths in meters (max. length = 392 m)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0900 = 90 m 0100 = 100 m 0392 = 392 m ntermediate lengths < 100 m as fr > 100 m on request	rom 5 pieces,	0010 = 10 m 0030 = 30 m 0015 = 15 m 0040 = 40 m 0020 = 20 m 0392 = 392 m 0025 = 25 m			
Mounting kit LES.MK	8.LES.MK.0001						
Mounting kit for sensor Ants LES03							
Order code SGT02	8.SGT02 . 1 X 1 X . 11 1 X Type						
b Version electromechanic	al safety gear	Manufacturer	Product	Order code			
1 = with electrical reset			eASG - 65 UD				
 2 = without electrical reset Combination (Dependence on the internal CAN bus termination of the SGT02) 1 = Combinable with LES03 Combinable with LES03 and RSU02 		_	eASG - 100 UD				
		Dynatech	eASG - 120 UD eASG - 121 UD	8.SGT02.111X.1111			
			eASG - 121 UD eASG - 221 UD				
2 = Combinable with LES03 a		ESG-17BS					
 Electromechanical brake (see table) 1 = Type 1 2 = Type 2 3 = Type 3 		Wittur	ESG-25BS	8.SGT02.121X.1112			
			ESG-25U				
			PC13GALEA				
0 - Type 0		Cobianchi	PC24GALEA PC13GAREA PC24GAREA	8.SGT02.111X.1113			
Accessories Order no.							
EMC - Shield terminal	For an EMC-compliant i	nstallation of the cable		8.0000.4G06.0312			