

Safety Gear Trigger	SGT02	Electronic overspeed governor
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To trigger electromechanical safety gears, the SIL3-certified Safety Gear Trigger SGT02 can be combined with the SIL3-certified Sensor Ants LES03 to create the **Kübler Safe System LES03/SGT02**.

With the additional extension by the evaluation unit PSU02 to the **Kübler Safe system LES03/SGT02/PSU02**, further elevator and safety functions can be implemented in accordance with EN 81-20/-21/-50.



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).

Shaft copying systems

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Order code SGT02	8.SGT02 Type	<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">X</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">X</td> <td style="width: 10%; text-align: center;">.</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">a</td> <td style="text-align: center;">b</td> <td style="text-align: center;">c</td> <td style="text-align: center;">d</td> <td style="text-align: center;">e</td> <td style="text-align: center;">f</td> <td style="text-align: center;">g</td> <td style="text-align: center;">h</td> </tr> </table>	1	X	1	X	.	1	1	X	a	b	c	d	e	f	g	h						
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<p>a Type of mounting 1 = top-hat rail mounting</p> <p>b Version electromechanical safety gear 1 = with electrical reset 2 = without electrical reset</p> <p>c Interface / supply voltage 1 = CAN, 24 V</p> <p>d Combination ¹⁾ 1 = Combinable with LES03 2 = Combinable with LES03 and PSU02</p> <p>e Interface profile 11 = CAN, Parts of CANopen Lift implemented</p> <p>f Safety gear direction 1 = in downward and upward direction</p>		<p>g Electromechanical brake (see table) 1 = Type 1 2 = Type 2 3 = Type 3</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Manufacturer</th> <th style="width: 40%;">Product</th> <th style="width: 40%;">Order code</th> </tr> </thead> <tbody> <tr> <td rowspan="5" style="text-align: center;">Dynatech</td> <td>eASG - 65 UD</td> <td rowspan="5" style="text-align: center;">8.SGT02.111X.1111</td> </tr> <tr> <td>eASG - 100 UD</td> </tr> <tr> <td>eASG - 120 UD</td> </tr> <tr> <td>eASG - 121 UD</td> </tr> <tr> <td>eASG - 221 UD</td> </tr> <tr> <td rowspan="3" style="text-align: center;">Wittur</td> <td>ESG-17BS</td> <td rowspan="3" style="text-align: center;">8.SGT02.121X.1112</td> </tr> <tr> <td>ESG-25BS</td> </tr> <tr> <td>ESG-25U</td> </tr> <tr> <td rowspan="4" style="text-align: center;">Cobianchi</td> <td>PC13GALEA</td> <td rowspan="4" style="text-align: center;">8.SGT02.111X.1113</td> </tr> <tr> <td>PC24GALEA</td> </tr> <tr> <td>PC13GAREA</td> </tr> <tr> <td>PC24GAREA</td> </tr> </tbody> </table>		Manufacturer	Product	Order code	Dynatech	eASG - 65 UD	8.SGT02.111X.1111	eASG - 100 UD	eASG - 120 UD	eASG - 121 UD	eASG - 221 UD	Wittur	ESG-17BS	8.SGT02.121X.1112	ESG-25BS	ESG-25U	Cobianchi	PC13GALEA	8.SGT02.111X.1113	PC24GALEA	PC13GAREA	PC24GAREA
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Technical data

Mechanical characteristics	
Connection	Push-in spring terminals
Switch-off time / System reaction time	< 30 ms (incl. relay switching time)
Housing (material)	plastic
Dimensions L x B x H	160 x 100 x 50,5 mm [6.30 x 3.94 x 1.99"] with connector 66,8 mm [2.63"]

Environmental conditions	
Protection acc. to EN 60529	IP20
Humidity	< 90 % (non condensing)
Working temperature	-5 °C ... +55 °C [+23 °F ... +131 °F]
Storage temperature	-10 °C ... +70 °C [+14 °F ... +158 °F]
Air pressure (operating altitude)	800 ... 1013 hPA (up to 2000 m above sea level)

Electrical characteristics	
Supply voltage	24 VDC ±10 %, low voltage PELV
Power (In the system consisting of SGT02, Ants LES03 and ESG)	< 13 W < 130 W short time during electrical reset of safety gears.
Internal interface (between Ants LES02 and SGT02)	CAN proprietär
External interface (optional) (between SGT02 and control)	CANopen Lift

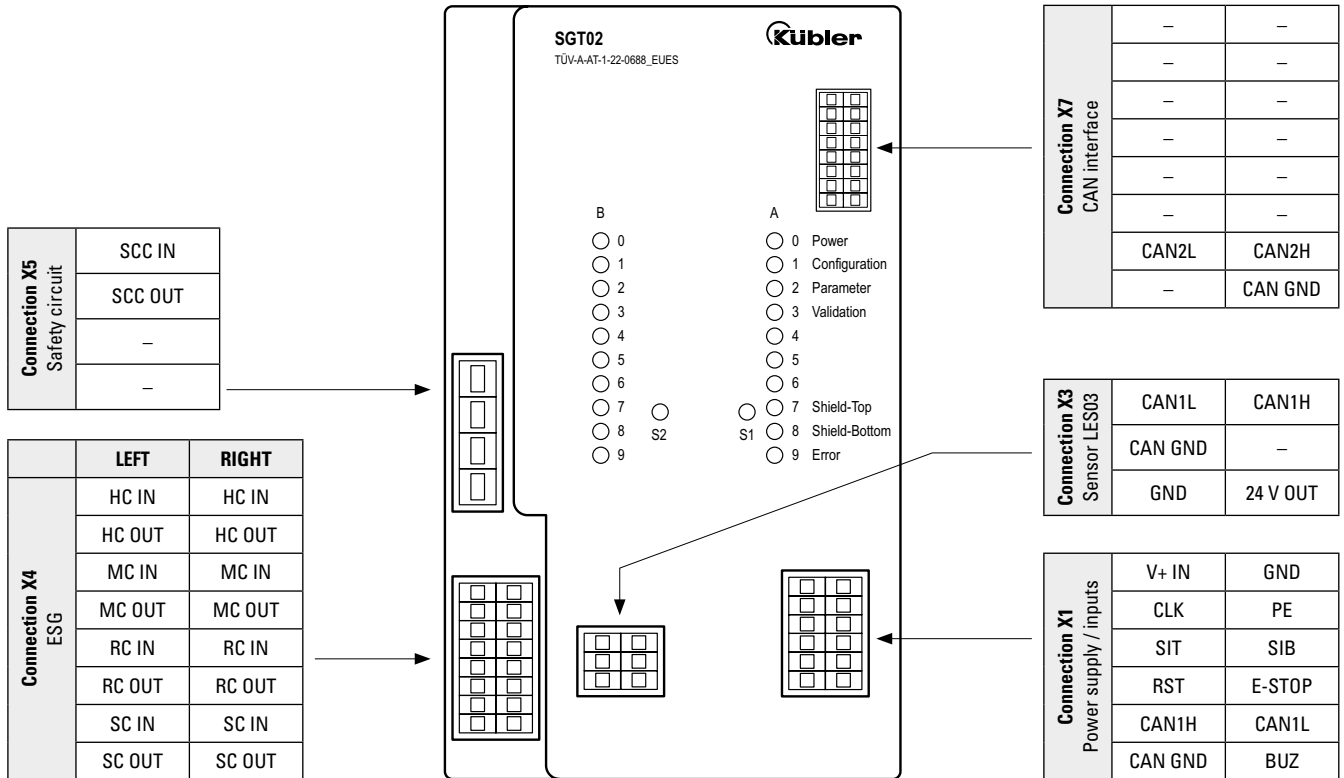
Standards / Directives / Certificates		
Standards	standards for elevators	EN 81-20/21/50
CE compliant in accordance with		
	EMC Directive	2014/30/EU
	RoHS Directive	2011/65/EU
	Elevator Directive	2014/33/EU

1) Dependence on the internal CAN bus termination of the SGT02.

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Terminal assignment SGT02



SSC : Safety Circuit Chain
 DB : Door Bridging
 HC : Holding Coil
 MC : Monitoring Coil
 RC : Reset Coil
 SC : Safety Coil

CANxL : CANx Low
 CANxH : CANx High
 CAN GND : CAN ground
 GND : 0 V supply
 +V IN : Supply voltage +24 V DC
 PE : Safety ground

CLK : 24 V DC clock
 SIT : Protection upwards
 SIB : Protection downward
 RST : Reset
 E-STOP : Emergency stop switch
 BUZ : External buzzer

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Dimensions

Dimensions in mm [inch]

Safety Gear Trigger SGT02

(Installation on all DIN EN top hat rails)

