

## Performance overview

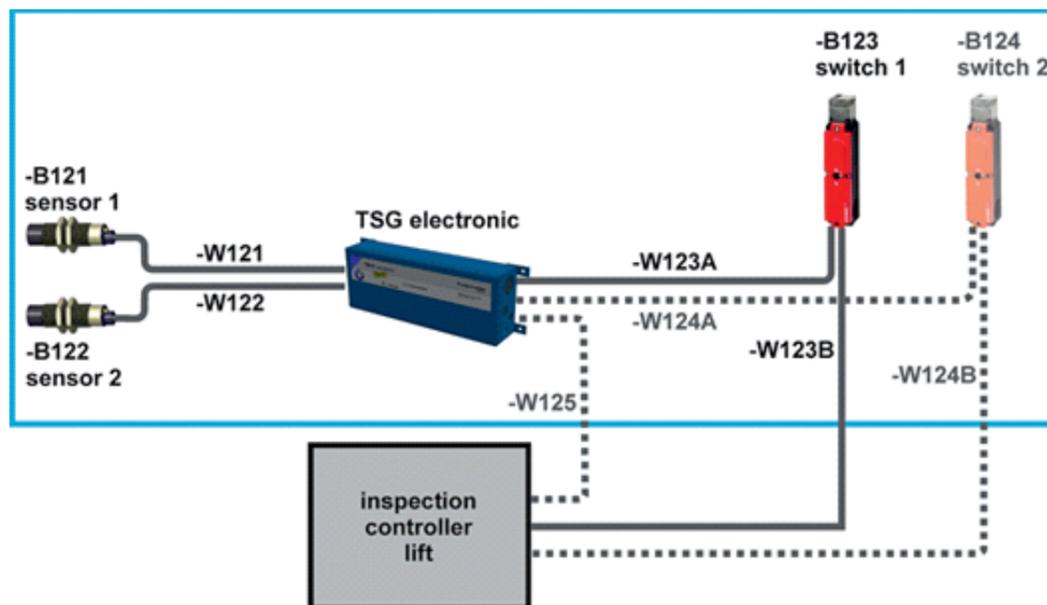
### Technical data FKTZ

Bolt signal connection X128	12..32[VDC] / 3..9[mA]
Permissible storage/transport temperature	0 [°C]...60[°C]; maximum change: 20[K/h].
Permissible average operating ambient temperature	5 [°C]...40 [°C] at nominal data, no direct solar radiation. 1,000 to 2,000 [m] above sea level with power reduction
Installation height	Up to 1,000[m] above sea level without restriction; 1,000 to 2,000[m] above sea level with power reduction
Protection class	Splash-proof housing: Ip54
Environment	Overvoltage category III, pollution degree 2
Humidity	Relative humidity 10% to 90%, non-condensing

### Article

TSG V4 Hubtorantrieb -Elektronik extern- 230[VAC]/50-60[Hz] + NSV + FKTZ/Z
Basic set car door interlock with safety switch and actuator FKTZ, with holder
Sensor set for FKTZ,V, mounted on cabin
Emergency release set Bowden cable 2.0 m
Mounting set for locking mechanism with TSG drive
Mounting set for locking mechanism on side of door machine
Add-on set for zone switching per floor, for FKTZ,V

Item number	
	8.20.00301.04
	8.20.34020
	8.20.34050
	8.20.34110
	8.20.34200
	8.20.34210
	8.20.34310



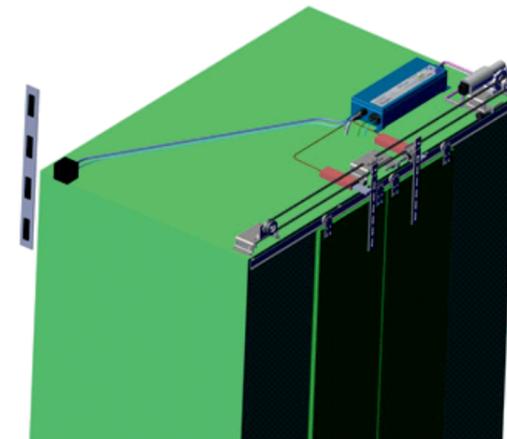
Sketch car door interlock EN81-20

## Universal car door latch FKTV/Z according to EN81-20 / EN81-1 / 81-2

L&L has developed the first approved car door interlock according to EN81-20, which is switched solely by the door control. The interlock is designed to be retrofitted to existing elevator/car doors flexibly, and can be retrofitted quickly and easily.

### INSTALL - PLUG IN & READY

The heart of the interlock, as in many other applications, is the L&L door control unit, which is equipped with an expansion board. It serves as a control center so that the elevator control system can continue to operate unchanged.



Example L&L car door locking device

### Your advantages

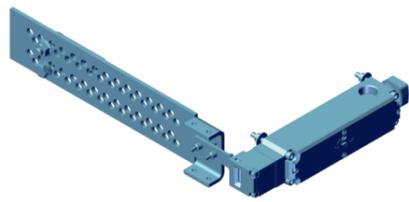
- Universally applicable
- Pluggable connectors
- Type-tested
- No change in elevator control
- Robust
- Safe
- Splashproof Ip54
- Approval according to EN81-20/50

The interlock is an elevator approved, versatile and flexible interlock (tested and approved according to EN81-20/50), which is delivered completely pre-wired and ready to plug in.

The TSG reliably detects the unlocking zone of the respective landing via two sensors. Here, zone plates are mounted on the elevator rails with the aid of rail holders. The two sensors are installed on the car - these are also supplied pre-wired. The mounting brackets for positioning the sensors complete the set.

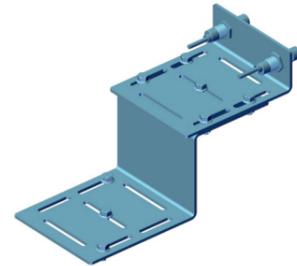
### Emergency release

The TSG is equipped with a battery pack for emergency unlocking. When the unlocking zone is reached, the car door lock is automatically unlocked. This allows trapped persons to leave the car safely. In addition, a tool for mechanical unlocking is available



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Basic set car door guard locking with switch and actuator



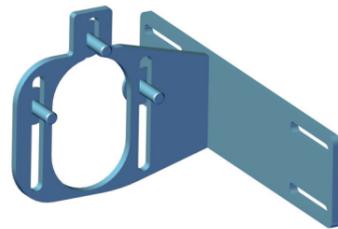
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Sensor set for FKTZ,V, mounted on cabin



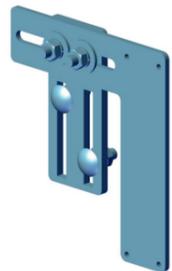
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Emergency release set Bowden cable 2.0 m



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Mounting set for locking mechanism with TSG drive



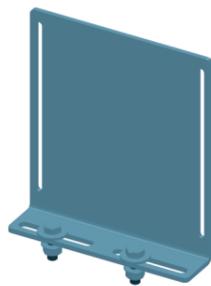
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Mounting set for locking mechanism on side of door machine



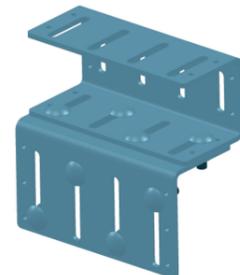
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Add-on set for zone switching per floor, for FKTZ,V



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Mounting set for locking mechanism on door machine



08.20.34230

Mounting set for locking or locking mechanism Universal

ZERTIFIKAT ◆ CERTIFICATE ◆ 認 証 証 書 ◆ CERTIFICADO ◆ CERTIFICAT



Industrie Service

## BAUMUSTERPRÜFBESCHEINIGUNG

<b>Bescheinigungs-Nr.:</b>	G 703
<b>Antragsteller / Bescheinigungsinhaber:</b>	Langer & Laumann Ing.-Büro GmbH Wilmsberger Weg 8 48565 Steinfurt - Deutschland
<b>Antragsdatum:</b>	22.04.2020
<b>Hersteller des Prüfmusters:</b>	Langer & Laumann Ing.-Büro GmbH Wilmsberger Weg 8 48565 Steinfurt - Deutschland
<b>Produkt:</b>	Fahrkorbürverriegelungs-Modul als Erweiterung eines TSG Türantriebs, um die Fahrkorbür außerhalb der Fahrkorbürverriegelungszone zu sperrern, so dass ein Öffnen der Fahrkorbür vom Inneren des Fahrkorbs ausgeschlossen ist.
<b>Typ:</b>	TSG V4
<b>Prüflaboratorium:</b>	TÜV SÜD Industrie Service GmbH Abteilung New Technologies Gottlieb-Daimler-Straße 7 70794 Filderstadt - Deutschland
<b>Prüfgrundlagen:</b>	EN 81-20:2020 EN 81-50:2020
<b>Ergebnis:</b>	Das Produkt erfüllt unter Einhaltung der im Anhang zu dieser Bestätigung angegebenen Bedingungen die Anforderungen der Prüfgrundlagen.
<b>Ausstellungsdatum:</b>	18.01.2021
<b>Gültig bis:</b>	17.01.2026

Technische Leitung für Produkte der Fördertechnik

*Re*  
Peter Retzbach



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