LIFTONE
Lift Control Solution
SIL3STO
LIFTONE

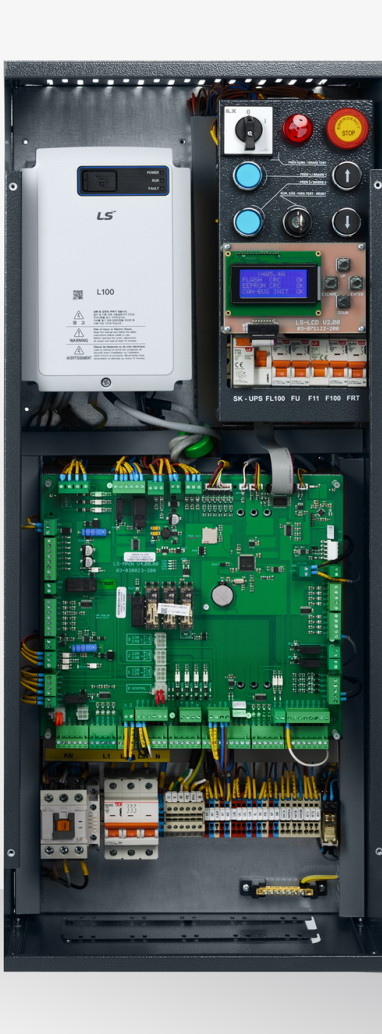
LIFTONE

Lift Control Solution

Safety & Reliability

LiftOne, is carefully designed with safe travel in focus, reliable LS components in core and five-decades of experience; tested in harshest conditions and certified by the most respected and esteemed organizations.

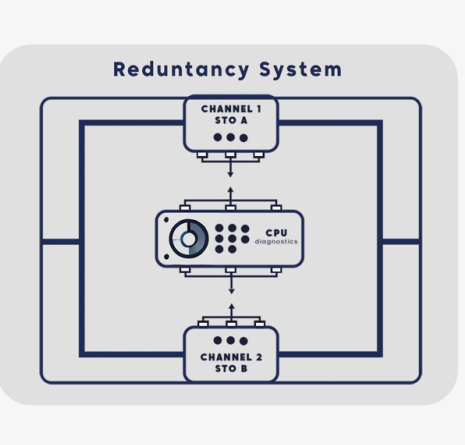
As the holder of SIL3 STO certificate, LiftOne offers safe and reliable travel not only in ordinary but also in extraordinary situations.



SIL3STO liftinstituut CE KC

LiftOne sets a new standard in safety with industry-leading Safety Integrity Level 3 Safe Torque Off (SIL3 STO), over 100 protection functions and EN81-20/50 certification covering the entire LiftOne ecosystem. From detecting speed deviations to monitoring shaft, cabin movements and detecting unintended cabin movements (UCM) by using different sources, LiftOne performs many cross-checks to ensure passenger safety.

Redundancy System



LiftOne is also differentiated in the market with its dual-layered safety approach: both the A/C Drive (L100) and the lift controller (LS-Main) monitor and evaluate shaft signals. L100 and LS-Main, which are in serial communication with each other, can independently decide to stop the system if necessary.

ALLS Rescue Operation

- Automatic Light Load Search (ALLS)
- UPS or UPS + Battery

Rescue Mode

Rescue with Lower Power

Automatic Light Load Search (ALLS) function provides more rescue operations with the same battery capacity or allows the use of lower capacity UPS in compact applications.

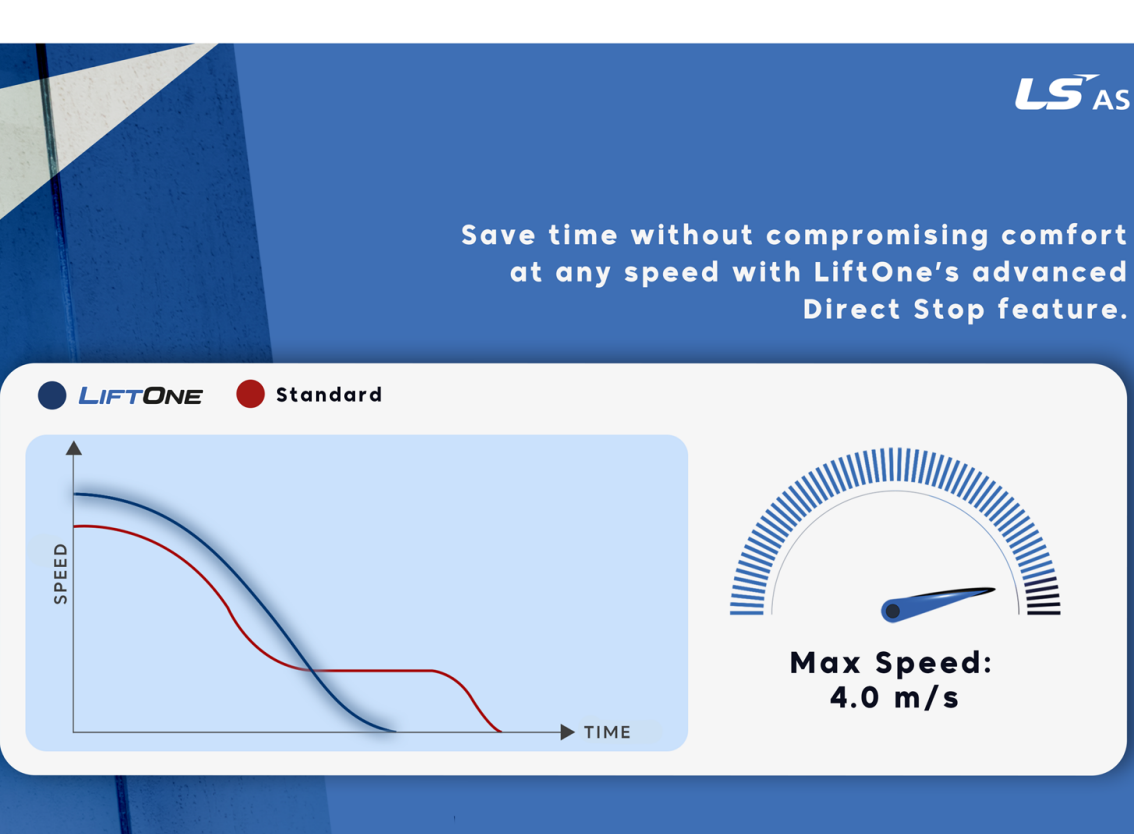
EU-Type Examination Certificate and Compatible Standards

EN-81-20/50	EN 81-1/-2+A3	EN 81-70	EN 81-73	EN 81-77
Reinforced European Standard of Lift Controller	Previous European Standard of Lift Controller	Physically Handicapped Human Support	Emergency Fire Evacuation Protocol	Emergency Earthquake Evacuation Protocol

Speed and Comfort

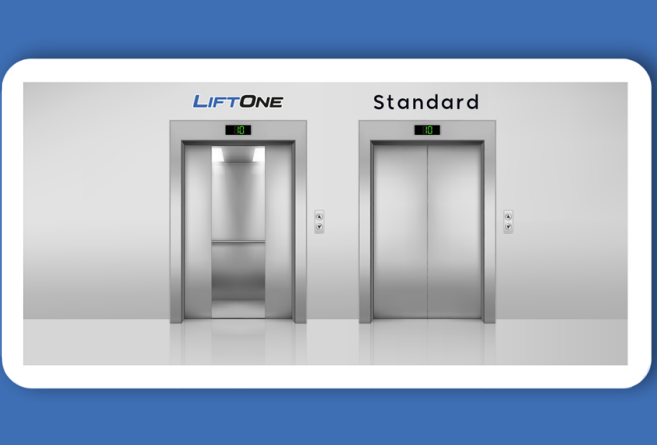
LiftOne balances high speed and comfort seamlessly. The state-of-the-art Direct Stop feature ensures rapid yet gentle stops while the early-door-opening feature saves valuable time where every second counts. Zero-speed control holds the cabin steady, and the improved anti-rollback function provides smooth movement starts.

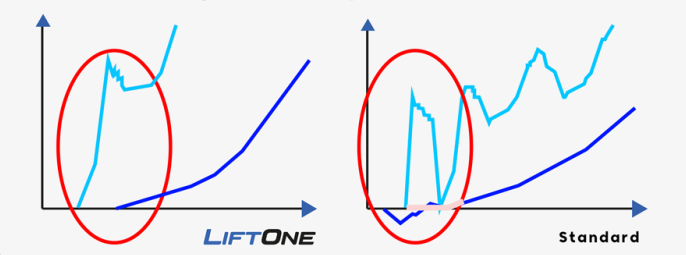
Save time without compromising comfort at any speed with LiftOne's advanced Direct Stop feature.



Max Speed: 4.0 m/s

Reduce travel time and increase operational efficiency with Early-Door-Opening.





Present comfortable and safe travel starts to passengers with zero speed control and anti-rollback functions.

Easy Installation

LiftOne ready-to-use lift panel is designed to simplify the installation process and save time.

Commissioning Wizard Menu guides technicians through parameter input. Motor auto-tuning without movement reduces risks during installation. FHM (Floor Height Measurement) function precisely detects floor levels even at high speeds. Floor level adjusments can be set in real-time by using the COP and do not require any special equipment. The floor-to-floor serial communication system streamlines cabling, automatically assigning IDs to each floor.

Quick Shaft Copy

Floor Height Measurement (FHM) function features fast and easy shaft copying process.

Save time in high-rise applications with FHM which can speed up to 1 m/s.

Motor Auto-Tuning without Movement

Reduce risks during installation with motionless auto-tuning.

Floor Level Adjusment from COP

LIFTONE
10
9

Apply and save floor level adjustments in real time via COP, without any special equipment.

Commissioning Wizard

Reduce commissioning effort and save time with **LiftOne** quick settings menus.

Enter parameters sequentially and simplify the setup process by using the user-friendly interface.

Quite Intelligent Design

Choose between MR (Machine Room) and MRL (Machine Room-less) versions, both with an intelligent design and smaller footprint. LiftOne's modern and elegant aesthetics makes it a part of your building.

Elegant
Design

Green Energy

Futuring Smart Energy
Starting from the supply chain to our final products, LS is dedicated to green energy all around the world.

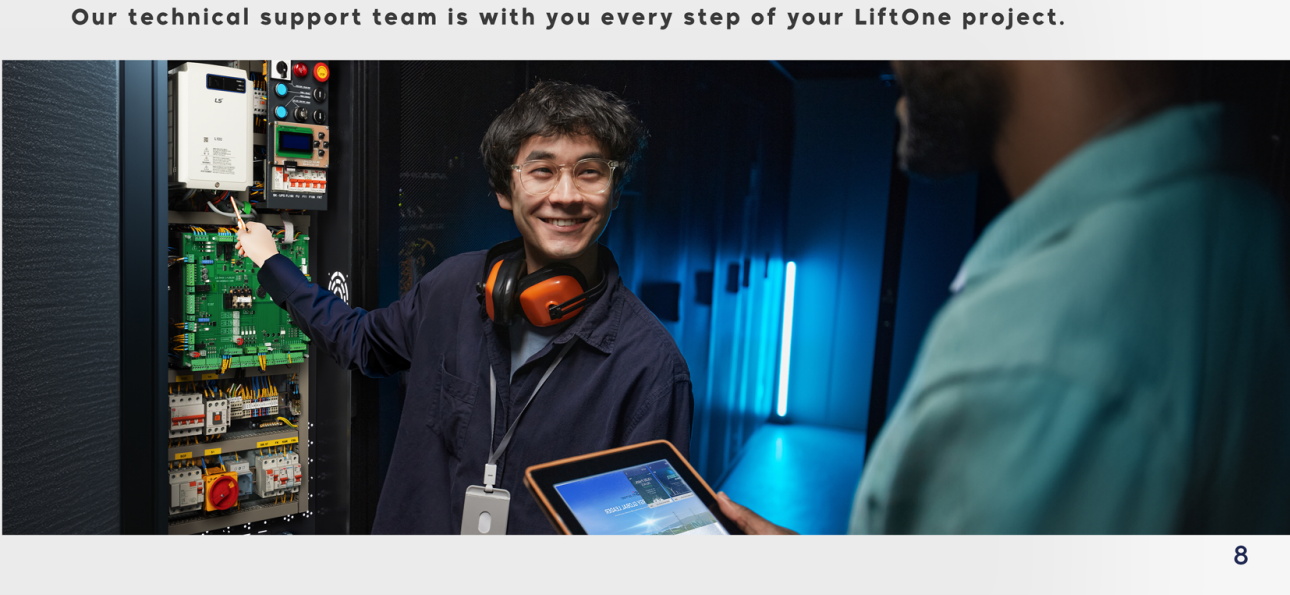
With LiftOne, not only do you get top performance, but you also contribute to sustainability.

FUTURING SMART ENERGY

Technical Support

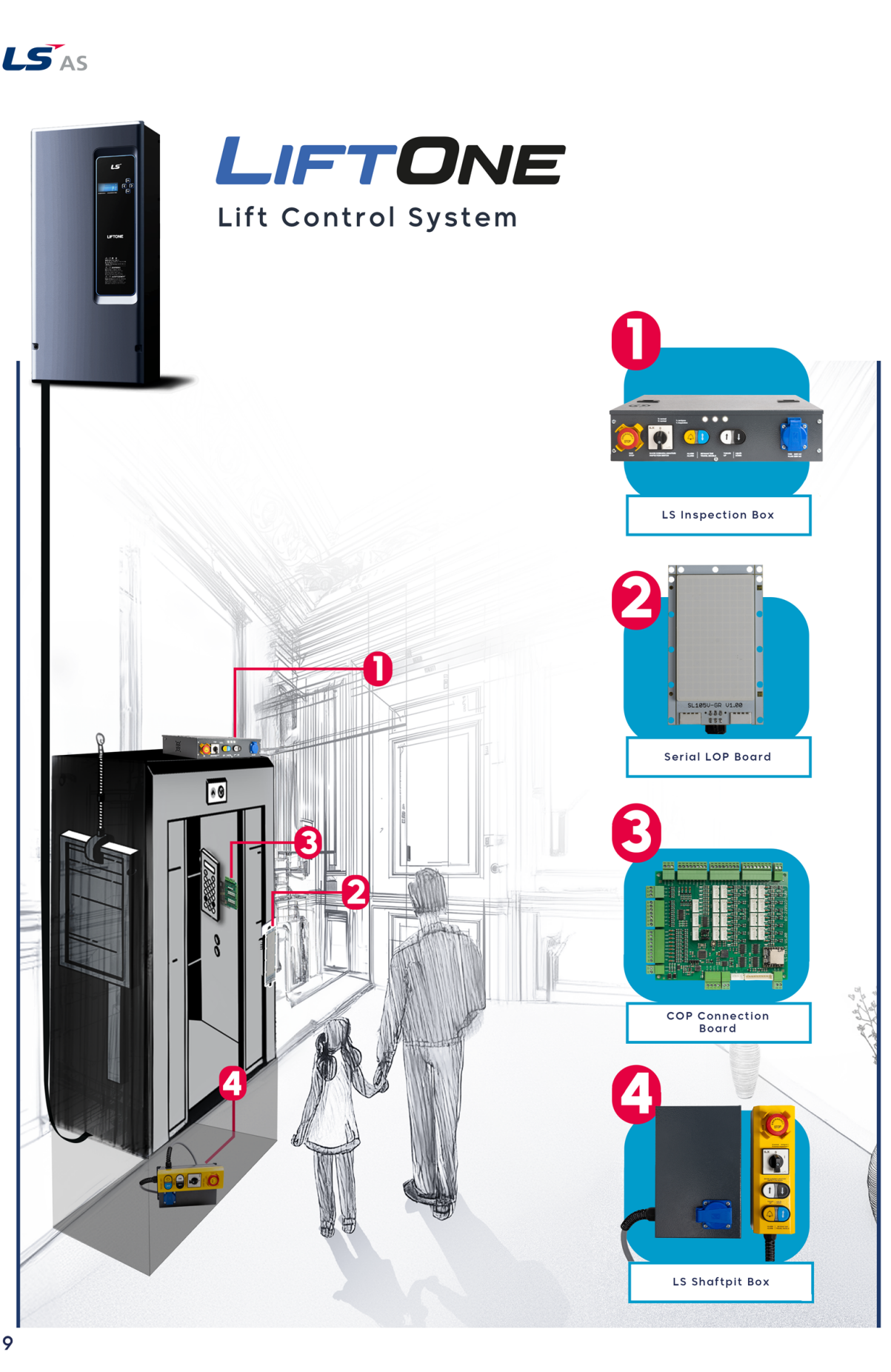
From your product selection process to commissioning, during your daily operation and maintenance phases, you are never alone.

Our technical support team is with you every step of your LiftOne project.



LIFTONE

Lift Control System



LIFTONE

Lift Control Panel

Product Specifications Table

Voltage		AC 3 Phase 380V, 50/60 Hz		
Drive Capacity		5.5 kW ~ 15 kW *(18.5 kW ~ 22 kW special order option is available)		
Maximum Speed		4 m/s *(For applications over 4 m/s special order option is available)		
		PM	IM	
Motor Type		Synchronous	Asynchronous	
Encoder Compatibility		EnDat and SIN/COS	Incremental	
Max. Number of Stops		32		
		N	P	
LOP Options		Serial communication	Parallel connection	
Compatible LOP/COP Displays		-7 segment -Gray/Binary (Dot matrix, TFT, LCD etc.)		
Rescue Operation		UPS or UPS + Battery		
Comminication Protocol		LS Serial Communication Protocol		
		Width	Height	Depth
Dimensions	MR	360mm	860mm	260mm
	MRL	450mm	1370mm	260mm
Certificates		EN 81-20/50 SIL 3-STO CE		
Compatible Standards		EN 81-20/50 EN 81-1/-2+A3 EN 81-70 EN 81-73 EN 81-77		

LSEP-LIFTONE – MR – PM – 0055L100-4 – E – N

Product Name
LS Elevator Panel LiftOne

Panel Type
MR: Machine Room
MRL: Machine Room-Less

Motor Type
IM: Asynchronous
PM: Synchronous

Drive Capacity
0055L100-4: L100 400V 5.5kW 14A
0075L100-4: L100 400V 7.5kW 18A
0110L100-4: L100 400V 11kW 26A
0150L100-4: L100 400V 15kW 35A

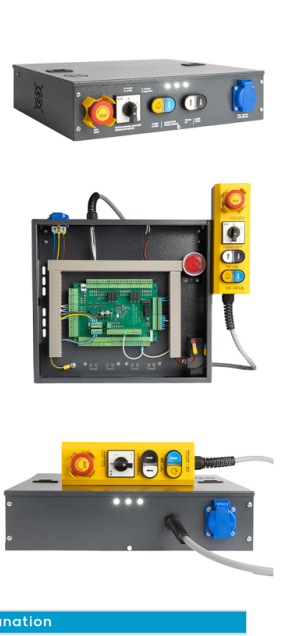
Encoder Type
E: EnDat & SIN/COS
I: Incremental

LOP Type
N: Serial
P: Parallel

Inscpection Solutions

LS Inspection Box

EN 81-20/50 Car Top Inspection Box



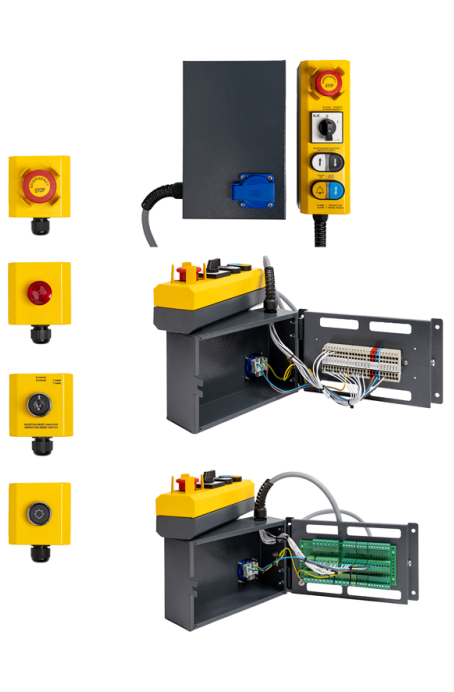
Product Specifications Table

Panel Type		Metal		
		Remote	Standard	
Hand Terminal		Metal and ergonomic hand terminal	Integrated buttons	
Lighting		Included LED lighting		
Alarm		Included		
Speaker		Included		
12V Battery		Included battery and battery charger		
220V Plug		Included		
		Width	Height	Depth
Dimensions	Inspection Box	400mm	100mm	410mm
	Hand Terminal	80mm	240mm	75mm
Certificate		EN 81-20/50		

Product Code	Explanation
LSEP-LIFTONE-ACC-INSPECTIONBOX-REMOTE	Car top inspection box, metal and ergonomic hand terminal
LSEP-LIFTONE-ACC-INSPECTIONBOX-STAND	Car top inspection box, integrated button group
LSEP-LIFTONE-PCBA-INSPECTION	PCBA (LS-INSP), inspection board

LS Shaftpit Box

EN 81-20 Shaft-pit Inspeciton Box



Product Specifications Table

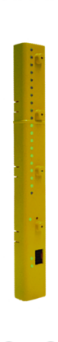
Panel Type		Metal		
Hand Terminal		Metal and ergonomic hand terminal		
		PCB Type	TERMINAL Type	
Connectivity Options		PCB design for easy connection	Terminal block design	
Light Button		Optional - single box		
Alarm		Optional - single box		
220V Plug		Included		
		Width	Height	Depth
Dimensions	Inspection Box	270mm	150mm	105mm
	Hand Terminal	80mm	240mm	75mm
	Single Box	75mm	75mm	75mm
Certificate		EN 81-20/50		

Product Code	Explanation
LSEP-LIFTONE-ACC-SHAFTPITBOX-PCBTYPE	Shaft-pit inspection box, PCB type
LSEP-LIFTONE-ACC-SHAFTPITBOX-TERMTYPE	Shaft-pit inspection box, Terminal Block type
LSEP-LIFTONE-ACC-SINGLEBUTTONBOX-BUZ	Buzzer, metal box
LSEP-LIFTONE-ACC-SINGLEBUTTONBOX-EMGSTOP	Emergency stop button, metal box
LSEP-LIFTONE-ACC-SINGLEBUTTONBOX-LIGHT	Light button, metal box
LSEP-LIFTONE-ACC-SINGLEBUTTONBOX-RESETKEY	Reset key, metal box

Sensor Solutions

LS-LADS

Advanced Lift Sensor



Easy Installation

- Easy connection
- Single magnet in each floor
- Single sensor replacing floor level sensors and door zone sensors
- Floor level adjustment by using 30cm long magnetic bar

Advanced Sensing

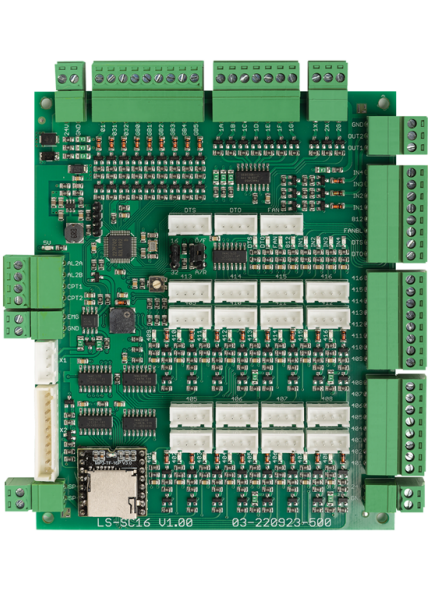
- 18 - zones for high resolution floor level detection and re-leveling
- Reliable detection during hight speeds
- Resistant against vibration and impact

Product Code	Explanation
LSEP-LIFTONE-ACC-LADS	Multi-zone bar sensor

COP Solutions

LS-SC16

Serial or Parallel Multi-Purpose COP Connection Board



- Single cable connection to LS-INSP inspection board
- Compatible with both serial and parallel COP configurations
- Support up-to 16 stops with single board or up-to 32 stops with double boards

Product Specifications Table

Max. Number of Stops	16 stops (single LS-SC16) 32 stops (double LS-SC16)
Installation Location	COP or revision box
Serial COP Support	Onboard connectors for 16+3 buttons and LED
Parallel COP Support	Onboard terminals for 16+3 buttons and LED
COP Display Support	-7 segment -Gray/Binary (Dot matris, TFT, LCD vb.)
Buzzer	Included
Other I/O	- Intercom or phone output - Vatman key input -Overload signal output - Emergency lighting connection -Alarm button connection -Speaker connection -Short circuit protected outputs -Programmable reserved outputs
Dimensions (WxHxD)	145mm x 130mm x 20mm
Certificate	EN 81-20/50

Product Code	Explanation
LSEP-LIFTONE-PCBA-SC16	PCBA (LS-SC16), COP connection board
LSEP-LIFTONE-ACC-KIT-COP16	Kit Includes: LS-SC16, LS-INSP connection cable
LSEP-LIFTONE-ACC-KIT-COP32	Kit Includes: 2 pieces LS-SC16, interconnection cable, LS-INSP connection cable

Other COP Options

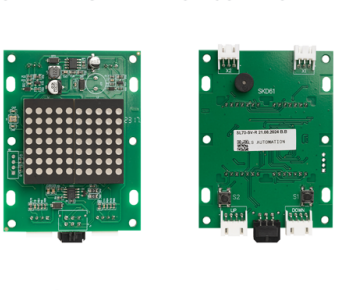
Check below manufacturers for other Serial COP options compatible with LiftOne.

BUTKON GENEMEK BUTSAN

LOP Solutions – Serial Communication

SKD61

Serial LOP Indicator Board



Product Specifications Table

Installation Location	Inside the landing indicator panel
Display	10×7 dot-matrix (horizontal)
Car Call Button	External
Buzzer	Included
Communication	LS Serial Communication Protocol
I/O	-Up / Down car call buttons -Up / Down travel indicator arrows -Single connector to connect shaft CAN bus line
Dimensions (WxHxD)	65mm x 93mm x 20mm

SL105

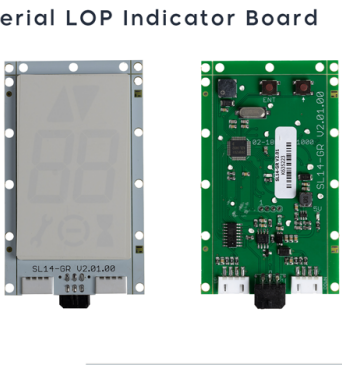
Serial LOP Indicator Board

Product Specifications Table

Installation Location	Inside the landing operating panel
Display	(10×7) + (5×7) dot matrix (vertical)
Car Call Button	External
Buzzer	Included
Communication	LS Serial Communication Protocol
I/O	-Up / Down car call buttons -Single connector to connect shaft CAN bus line
Dimensions (WxHxD)	58mm x 98mm x 20mm

SL14

Serial LOP Indicator Board



Product Specifications Table

Installation Location	Inside the landing operating panel
Display	2×7 Segment (vertical)
Car Call Button	External
Buzzer	Included
Communication	LS Serial Communication Protocol
I/O	-Up / Down car call buttons -Single connector to connect shaft CAN bus line
Dimensions (WxHxD)	58mm x 98mm x 20mm

Product Code	Explanation
LSEP-LIFTONE-PCBA-SKD61	PCBA (SKD61), LOP board, dot-matrix display, serial, horizontal
LSEP-LIFTONE-PCBA-SL105	PCBA (SL105), LOP board, dot-matrix display, serial, vertical
LSEP-LIFTONE-PCBA-SL14	PCBA (SL14), LOP board, 7-segment, serial, vertical
LSEP-LIFTONE-CAB-LOP-1000-T	Serial shaft cable for LOP communication line, 10m, automatic ID assignment
LSEP-LIFTONE-CAB-LOP-0350-T	Serial shaft cable for LOP communication line, 3.5m, automatic ID assignment
LSEP-LIFTONE-CAB-LOP-0200-E	Serial shaft cable for LOP communication line, 2m, extension

Other LOP Options

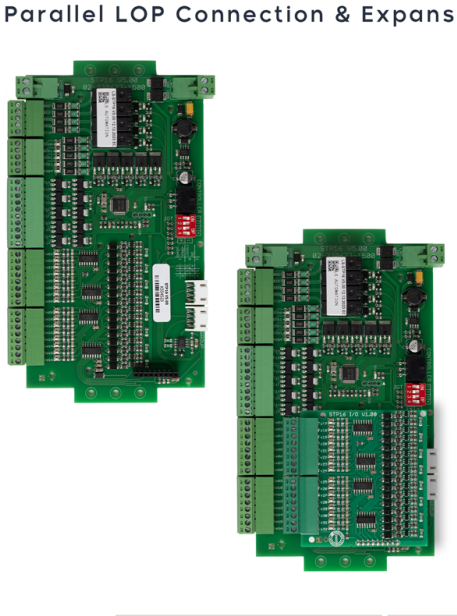
Check below manufacturers for other Serial COP options compatible with LiftOne.

BUTKON GENEMEK BUTSAN

LOP Solutions – Parallel Connections

STP16 & IO16

Parallel LOP Connection & Expansion Boards



- Cable-free connectivity with LS-MAIN lift controller board
- Supports up-to 16 stops for single button and up-to 9 stops for double button configurations
- With I/O16 supports up-to 32 stops for single but ton and up-to 17 stops for double but ton conf igurations

Product Specifications Table

		STP 16	STP 16 + IO16
Max. Number of Floors	Single Button	16 Stop	32 Stop
	Double Button	9 Stop	17 Stop
Installation Location		LiftOne	
LOP Display Support		-7 Segment -Gray/Binary (Dot matris, TFT, LCD etc.)	
Front/Rear Door Support		Yes	
Other I/O		-Out of service signal output -Busy signal output -Up / Down travel indicator arrow output	
Dimensions (WxHxD)		180mm x 110mm x 20mm	

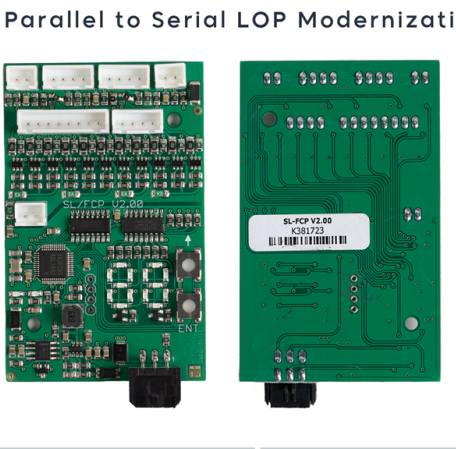
Product Code	Açıklama
LSEP-LIFTONE-ACC-KIT-NTPC**	LiftOne Serial to Parallel Conversion Kit: STP16, LiftOne connection brackets
LSEP-LIFTONE-PCBA-IO16	PCBA (I/O16), expansion board for STP16

**Not: LiftOne parallel models comes with STP16 pre-installed, this kit is only applicable for LiftOne serial models.

LOP Solutions – Modernization/Retrofit

SL-FCP

Parallel to Serial LOP Modernization Board



Product Specifications Table

Installation Location	Inside the shaft or the landing operating panel
Display	External
Car Call Buttons	External
Buzzer	External
Communication	LS Serial Communication Protocol
I/O	-Gray/binary code display output -Up / Down car call buttons input -Up / Down travel indicator arrow output -Buzzer output -Buzzer -Single connector to connect shaft CAN bus line
Dimensions (WxHxD)	50mm x 80mm x 20mm

Product Code	Explanation
LSEP-LIFTONE-PCBA-SLFCP	PCBA (SL-FCP), LOP board, external display, serial
LSEP-LIFTONE-CAB-KIT-SLFCP	Cable Bundle: 7 cables required for connecting external display, buttons and other peripherals to SL-FCP, 7x1m
LSEP-LIFTONE-CAB-LOP-1000-T	Serial shaft cable for LOP communication line, 10m, automatic ID assignment
LSEP-LIFTONE-CAB-LOP-0350-T	Serial shaft cable for LOP communication line, 3.5m, automatic ID assignment
LSEP-LIFTONE-CAB-LOP-0200-E	Serial shaft cable for LOP communication line, 2m, extension