System solutions for every lift. Everywhere.

Lift Emergency Call Systems

SCHMERSAL
BÖHNKE + PARTNER

Introduction

Philip Schmersal, Executive Director of the Schmersal Group, and
Dr. Andreas Hunscher, Managing Director of Böhnke + Partner GmbH Steuerungssysteme

"Every lift needs to be fitted with two-way means of communication allowing permanent contact with a rescue service."

This statement will be confirmed by users of lift systems at any time. Not only by being part of a European standard the demand gets duty where national laws make it mandatory for both new and existing lifts.

For almost 50 years, the Schmersal Group has been producing switchgear developed completely from scratch for the special requirements of lift switchgear. In addition, Schmersal works closely with specialists to expand its position as a systems supplier and to add to its own range of lift emergency systems.

This brochure provides an overview of the new range of lift emergency systems available from Schmersal.

Content

Lift standards behind the scenes
High standards for your safety

EN 81-20

EN 81-20 is the successor standard for the summarised standards EN 81-1 and EN 81-2. EN 81-20 and corresponding EN 81-50 form the base standards for lift applications. Amongst other things, they stipulate that an emergency call system in accordance with EN 81-28 must be accessible from all locations within a lift shaft where persons could become trapped.

EN 81-28

EN 81-28 – Emergency calls. The purpose of this standard is to improve communication in the event of emergency situations in lifts. It includes general requirements that apply to emergency call systems for lifts. Standard EN 81-28 applies to all new and upgraded lifts.

EN 81-50

EN 81-50 – Design rules, calculations, examinations and tests of lift components. This standard includes design rules, calculations, examinations and tests for lift components, the requirements of which are incorporated into other standards in the EN 81 series. This standard can only be applied in conjunction with the standards for certain types of lift, such as EN 81-20 for lifts for the transport of persons and goods.

EN 81-70

EN 81-70 – Accessibility to lifts. This standard defines the minimum requirements for unhindered access and use of a lift for all users, including users with disabilities. These requirements enable persons with limited mobility (e. g. buggies, wheelchairs, walking aids, etc.) or other disabilities (e.g. mental handicaps, sight/hearing impairments) to access the lift cabin without difficulty and to operate the lift without restriction.

EN 81-71

EN 81-71 – Vandal resistant lifts. Standard EN 81-71 defines the test methodology and classification of lifts according to their resistance to vandalism. It includes particular safety measures and rules against uses that could give rise to damage to the lift or personal injury to passengers.

EN 81-72

EN 81-72 – Firefighter lifts. This standard is concerned with requirements for new constructions of lifts for passengers and goods which are also used for firefighting and evacuation under the control of the fire service. These lifts are, in the first instance, intended for use by normal users. Additional safety equipment and signals, however, make these lifts suitable for firefighting and evacuation purposes by the fire service.

EN 81-80

EN 81-80 – Lift updates/hazard analysis. This standard describes the hazard analysis and appropriate corrective measures for the updating of existing passenger and goods lifts. Its objective is to achieve the safety level in newly installed levels.

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Next Generation Network

Next Generation Network (NGN) is the name given to the network technology in telecommunication that replaces traditional circuit-switching telecommunication networks such as telephones with a uniform packet-switching network infrastructure and architecture and which offers a reliable service. The lift emergency call systems from our partners are also following this trend.

Lift1, Lift8 and LiftIP have had these new connections tested in a special laboratory run by Deutsche Telekom (Bonn, Germany), and all have demonstrated that they satisfy the requirements for NGN.

General certification

Emergency call communication products are TÜV SÜD Czech certified. The TÜV certifications confirm compliance with the respective applicable standards (EN 81-20, EN 81-28, EN 81-50, EN 81-70, EN 81-71, EN 81-72, EN 81-80) according to their operating principle.

Solutions for Lifts and Escalators
Safe and reliable

System solutions for every lift. Everywhere.
Lifts and Escalators

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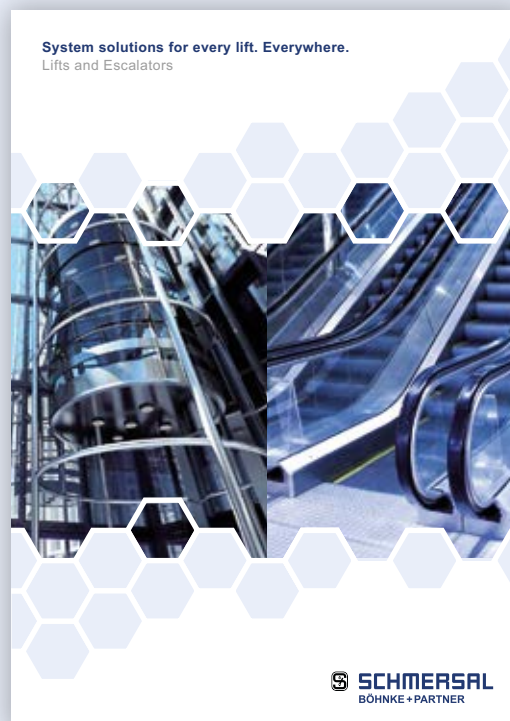
Further industry sector product portfolio
can be found in a separate catalogue
„Lifts and Escalators"

EasyGate PRO
Gateway for lifts
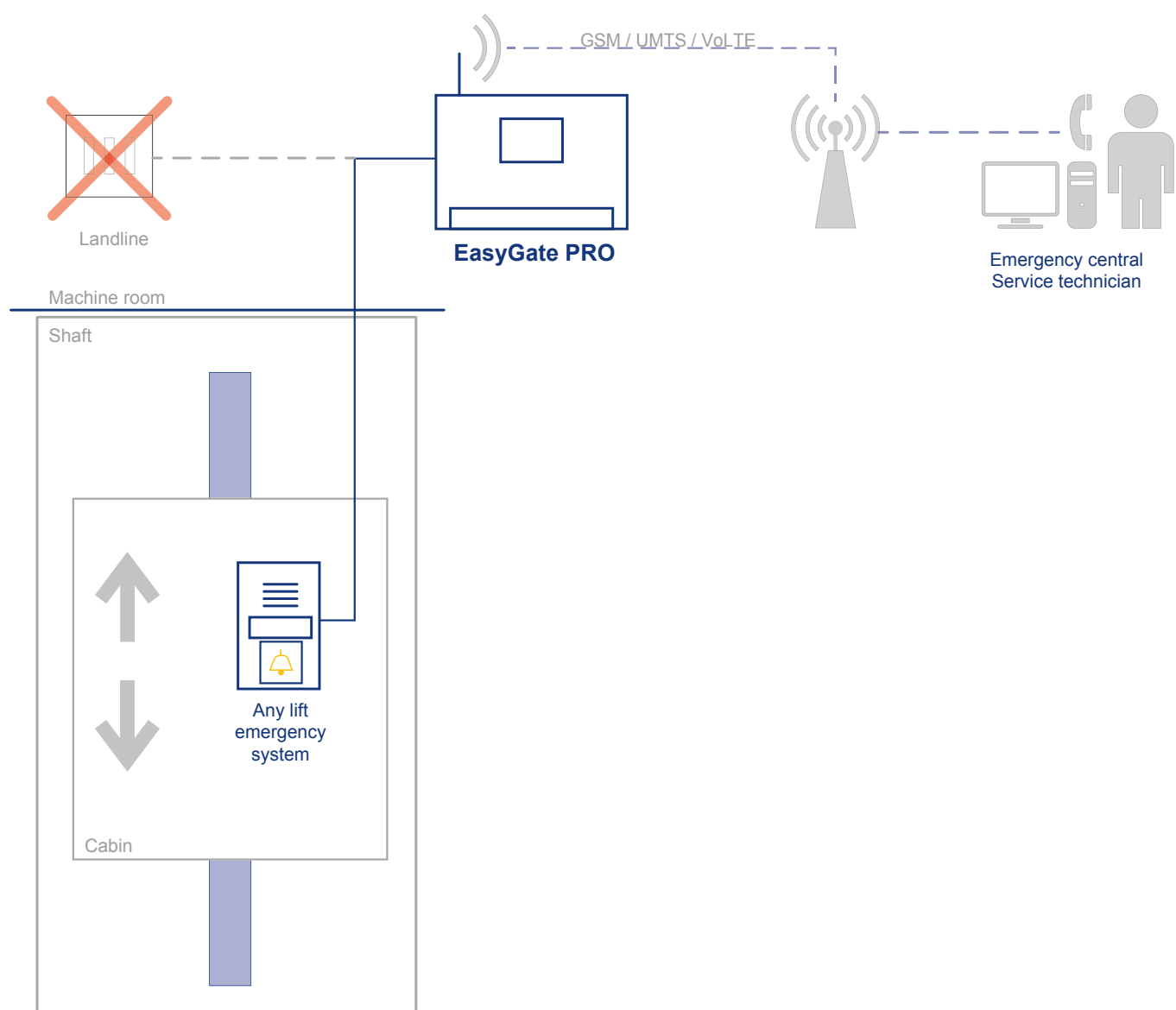
EasyGate PRO
The advantages at a glance

The EasyGate PRO is a gateway that serves as a fully-fledged replacement for a landline connection. It operates as an analogue GSM, UMTS or VoLTE gateway, making it highly suitable for lift environments. It acts as an instant replacement for landline connections, and can be connected to any lift emergency call telephone system. In addition, the gateway can initiate a call for the transfer of data or to send an SMS notification of the battery status.

- Fully-fledged alternative to landline, e.g. for cut-off of the analogue landline network by the operator by the end of 2018
- Integration into all existing emergency call communication systems possible
- Reduction of monthly telephone costs thanks to no landline connections
- Operational security in the event of a power cut (backup with 4x AA batteries)
- SMS notification in the event of a power cut
- Reliable connection thanks to powerful antenna
- Voice calls via GSM/UMTS/VoLTE
- Simple installation and operation without cumbersome wiring (Plug & Play)
- Caller identification from GSM/UMTS (FSK CLIP)

GSM

UMTS

VoLTE

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EasyGate PRO
Sample application

GSM / UMTS / VoLTE

Landline

EasyGate PRO

Emergency central
Service technician

Machine room

Shaft

Any lift
emergency
system

Cabin

EasyGate PRO
Technical data and product overview

GSM/UMTS model	
GSM networks	850 / 900 / 1800 / 1900 Hz
UMTS networks	900 / 2100 MHz (EU version) 850 / 1900 MHz (US version) 850 / 2100 MHz (JP version)
Data transmission	HSDPA 3.6 Mbps, WCDMA, EDGE, GPRS
SIM card	3 V and 1.8 V
Line interface	
Interface type	Two-wire, FXS for telephone or external cable from exchange
Connector type	RJ12, 6/2
Supported options	DTMF and impulse
Power supply	
Power supply, supplied with gateway	12 V / 1 A
External power supply option	10 ... 16 VDC
Backup power supply	4 x AA batteries
USB interface	
Configuration and upgrade	PC Manager UNI
Antenna	
Connector type	SMA
Impedance	50 Ω
Miscellaneous	
Dimensions (W x H x D)	163 x 157 x 38 mm
Operating temperature	0 °C … +45 °C
Display of operating status	4 x LED (switched on, GSM/UMTS network, cable, data)
LED indicator	Signal strength/battery charge status

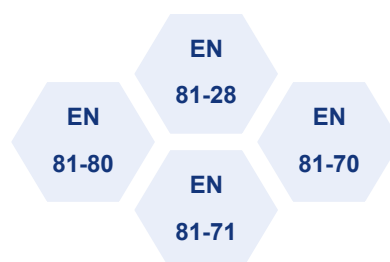| Figure	Description	Type designation	Material number
	Analogue GSM gateway	**2N GSM GATEWAY-SMS**	103016982
	UMTS gateway: allows UMTS (3G) and GMS standards to be used. This gateway also prepares lift systems for the shutdown of the GSM network.	**2N UMTS GATEWAY-SMS**	103016983
	VoLTE gateway	**2N VoLTE GATEWAY-SMS**	103016984

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LiftIP
Ready for the future
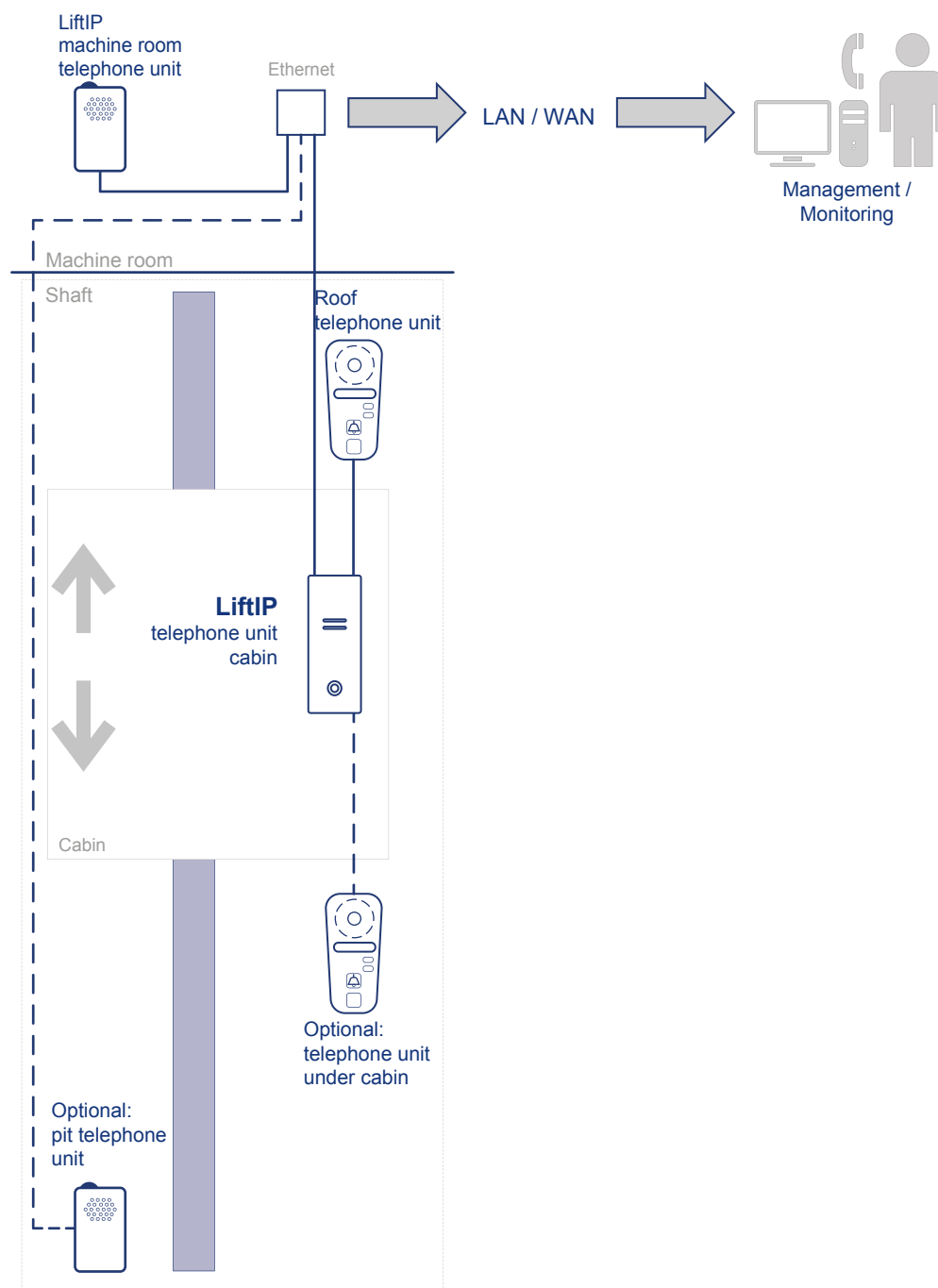
LiftIP
The advantages at a glance

LiftIP is a unique product on the lift communication systems market.
It uses VoIP technology to transfer speech from the lift cabin, allowing its installation wherever IP infrastructure is present. In addition, it requires no additional converters or hardware.

- Complete IP solution: use IP technology for communication with the lift cabin.
- Easy installation: only requires an IP connection, and nothing else.
- Use existing infrastructure: no landline or gateway costs.
- Online monitoring: IP connectivity allows the LiftIP system to be remotely monitored, adjusted and status checked.
- Unlimited: connection of an unlimited number of LiftIP units in a single network.
- Full duplex audio transmission: high-quality, convenient and uninterrupted communication between the lift cabin and other locations.
- Power over Ethernet (PoE)

EN 81-28

EN 81-80

EN 81-70

EN 81-71

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LiftIP
Sample application

LiftIP
machine room
telephone unit

Ethernet

LAN / WAN

Management /
Monitoring

Machine room

Shaft

Roof
telephone unit

LiftIP
telephone unit
cabin

Cabin

Optional:
telephone unit
under cabin

Optional:
pit telephone
unit

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LiftIP
Technical data

LiftIP	
Power supply	10 … 30 VDC, PoE (48 VDC)
Consumption	max. 6 W
Input Alarm / Cancel	5 … 48 VDC
Speaker	integrated 16 Ω / 0.25 W
Microphone	Integrated
Audio	Full duplex
Power of the induction loop	0.5 V RMS / 75 Ω
Pictograms	12 … 24 VDC / 200 mA
Dimensions cabin telephone unit (WxHxD)	
Mounting behind the control panel	65 x 130 x 24 mm
Surface mounting	100 x 185 x 22 mm
Flush mounting (Anti-vandal)	85 x 185 x 26 mm
Ambient temperature	−20 °C … +50 °C

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LiftIP
Product overview

Mounting	Figure	Description		Type designation	Material number
Mounting behind the control panel		Communication unit to be put behind COP, including loudspeaker, microphone (hands-free operation), LEDs. Necessary terminals and door opening signal input are provided as well.		**2N IP CABIN UNIT-COP-FIXED**	**103016972**
		Cabin telephone unit for installation behind the cabin control panel; speaker, microphone, LEDs are wired separately for optimal positioning according to the lift control panel.		**2N IP CABIN UNIT-COP-WIRED**	**103016973**
Flush mounting		Anti-vandal version of the telephone unit for installation in a lift cabin with a 1.5 mm stainless steel cover and alarm button. The stainless steel cover includes the required pictograms and operating instructions.		**2N IP CABIN UNIT-FM**	**103016974**
		Anti-vandal version of the telephone unit for installation in a lift cabin with a 1.5 mm stainless steel cover. The original ALARM button on the lift COP can be easily connected.		**2N IP CABIN UNIT-FM-W/O BUTTON**	**103016975**
Installation in the pit		Telephone unit for installation on the cabin roof with wired microphone, speaker and LEDs for the cabin. Can alternatively be used as a telephone unit for the pit.	With integrated distributor for the shaft telephone unit	**2N IP CABIN UNIT-TOC**	**103016976**
			Without integrated distributor for the shaft telephone unit	**2N IP CABIN UNIT-TOC-W/O SWITCH**	**103016977**

Up-to-date without fail

The online product catalogue

For detailed information, check out

www.schmersal.net
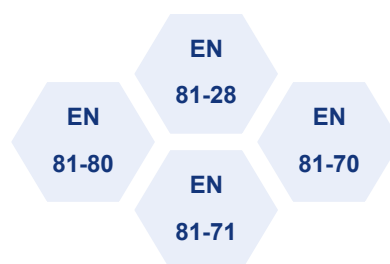
Lift1
Emergency communication for every lift

Lift1
The advantages at a glance

Do you need a reliable device to ensure two-way communication from the cabin or machine room of a lift with a central service organisation? Then you will certainly appreciate the Lift1 communicator, which complies with all of the requirements of the safety standards EN 81-28, EN 81-70 and EN 81-80. We offer the device in three versions: a version for fitting on the wall (surface mount), one for fitting behind the control panel of the lift (COP mount) and one for flush mount.

Inspired by its forerunner model Lift1 now offers the option of setting up and upgrading the system via USB. The option of changing the language version of the voice menu is possible in the same way. You can also easily connect the lift communicator to a telephone network (PSTN/PBX/GSM/UMTS) using only a dual-line telephone cable, which also serves as a power supply.

- Option of connection via PSTN/PBX/GSM/UMTS
- Option of two-way communication between the machine room and the cabin
- Option of adding communication on the roof of the cabin and underneath the cabin
- Fully powered by a telephone line
- Easy, user-friendly configuration option by sending an SMS
  (alternatively via USB port and computer with appropriate software)
- Up to six telephone numbers configurable for emergency call
- Full CPS and P100 protocol support

EN 81-28

EN 81-80

EN 81-70

EN 81-71

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Lift1
Sample application

Machine room
telephone unit

GSM
UMTS
VoLTE

or

Landline

Emergency central
Service technician

Machine room

Shaft

Roof
telephone unit

Lift1
Cabin
telephone
unit

Cabin

Optional:
telephone
unit under
cabin

Optional: pit
telephone unit

Lift1
Technical data
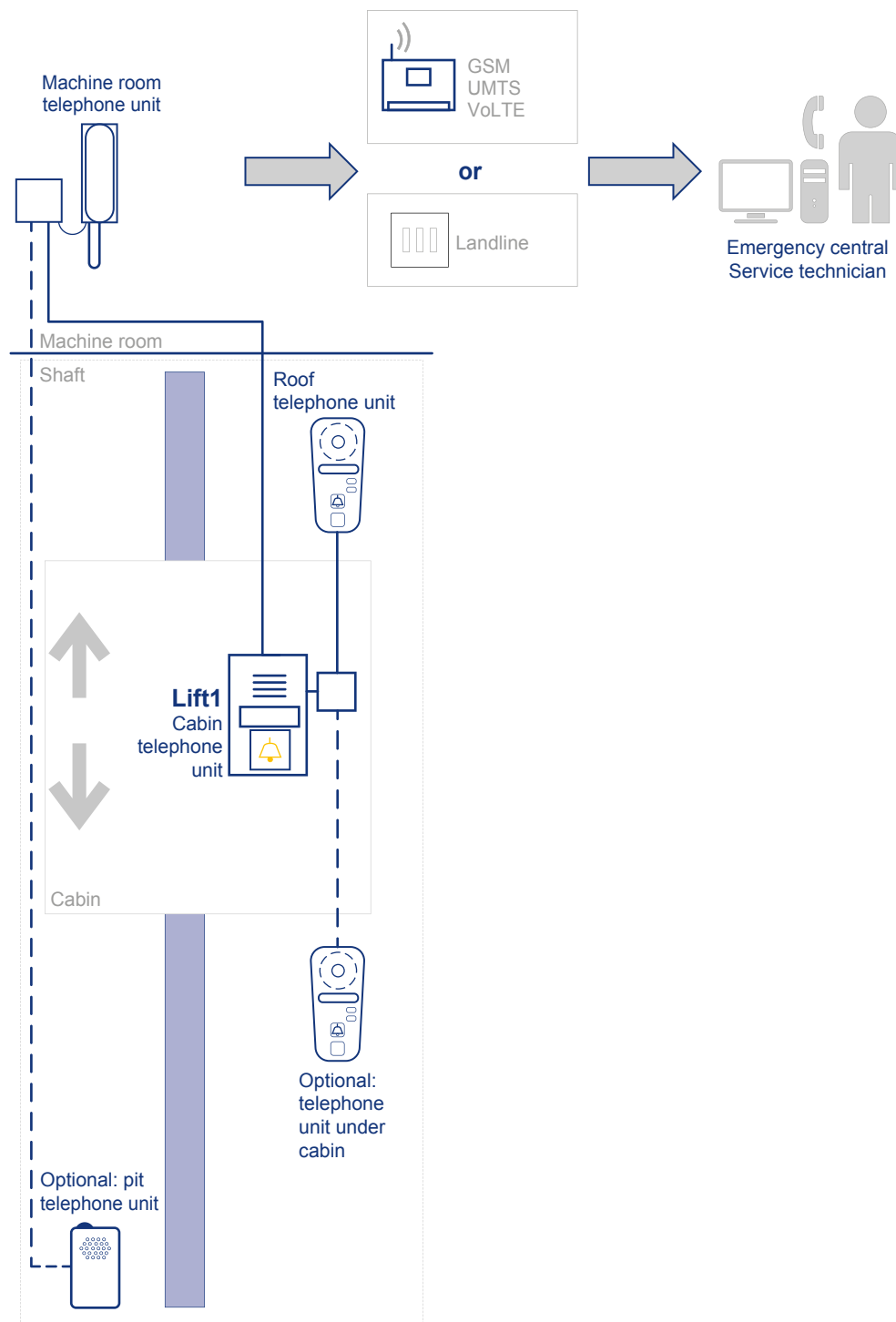
Telephone units	
Minimal conduction current	15 mA, with audio connection
Minimal line voltage	22 V, without audio connection
DC voltage drop with audio connection	<9 V at 20 mA, <12 V at 50 mA
Resistance with audio connection	>1 MΩ at 25 - 100 V
Impedance without audio connection	220 Ω + 820 Ω parallel 115 nF, 15 … 60 mA
Attenuation equalisation	> 14 dB, 15 ... 60 mA
Bandwidth	300 … 3500 Hz, 15 … 60 mA
Impedance with call setup (ringing)	> 2 kΩ, 0.47 µF, 25 … 50 Hz
Ringtone detection sensitivity	10 … 20 V, 25 … 50 Hz
Pulse dialling	40 / 60 ms
Dial tone level	-9.0 dB …+2.0/-2.5 dB -11.0 dB +2.5/-2.0 dB; 15 … 60 ms
Overvoltage protection	1000 V (8 / 20 µs)
Operating temperature	-20 °C … +70 °C

Alarm button	
Power supply	9 … 24 V AC/DC
Maximum current	1 A AC/DC
Resistance – not actuated	Min. 400 kΩ
Resistance – actuated	approx. 0.5 Ω
Fuse	resettable

Connection of external symbol signal LEDs	
Power supply	12 … 24 VDC, external power supply
Maximum switching current	200 mA

Dimensions cabin telephone unit (WxHxD)	
Mounting behind the control panel	65 x 130 x 24 mm
Surface mounting	100 x 185 x 22 mm
Flush mounting (Anti-vandal)	85 x 185 x 26 mm

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Lift1
Product overview – Cabin telephone units

Mounting	Figure	Description		Type designation	Material number
Mounting behind the control panel		Communication unit to be put behind COP, including loudspeaker, microphone (hands-free operation), LEDs. Necessary terminals and door opening signal input are provided as well.		**2N L1 CABIN UNIT-COP-FIXED**	**103013031**
		Cabin telephone unit for installation behind the cabin control panel; speaker, microphone, LEDs are wired separately for optimal positioning according to the lift control panel.		**2N L1 CABIN UNIT-COP-WIRED**	**103013032**
Surface mounting		Robust, metal-encased telephone unit. Only 16 mm profile and highly suitable for updating existing lift systems.	With alarm button	**2N L1 CABIN UNIT-COMPACT-SM**	**103013033**
			Without alarm button	**2N L1 CABIN UNIT-COMPACT-SM-W/O BUTTON**	**103016988**
Flush mounting		Anti-vandal version of the telephone unit for installation in a lift cabin with a 1.5 mm stainless steel cover and alarm button. The stainless steel cover includes the required pictograms and operating instructions.		**2N L1 CABIN UNIT-FM**	**103016962**
		Anti-vandal version of the telephone unit for installation in a lift cabin with a 1.5 mm stainless steel cover. The original ALARM button on the lift COP can be easily connected.		**2N L1 CABIN UNIT-FM-W/O BUTTON**	**103013034**

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Lift1
Product overview – Accessories

Figure	Description		Type designation	Material number
	Telephone unit for installation on the cabin roof with wired microphone, speaker and LEDs for the cabin. Can alternatively be used as a telephone unit for the pit.	With integrated distributor for the shaft telephone unit	2N L1 CABIN UNIT-TOC	103016964
		Without integrated distributor for the shaft telephone unit	2N L1 CABIN UNIT-TOC-W/O SWITCH	103016968
	Machine room distributor box may be required when using a pit telephone unit.		2N LINE SWITCH MR	103026387
	Machine room telephone unit; enables communication between the shaft/cabin telephone units.		2N L1 MACHINE ROOM STATION SET	103013035
	Shaft telephone unit; enables emergency communication from the cabin roof or from underneath the cabin.		2N VOICE ALARM STATION TELEPHONE UNIT	103013070
	Cabin telephone unit connection box with shaft telephone unit	Telephone unit – Mounting behind the control panel	2N VOICE ALARM STATION L1	103013037
		Telephone unit – Surface mounting	2N VOICE ALARM STATION L1 COMPACT	103013038
	With the aid of a DTMF remote-controlled universal switch (during connection)		2N L1 SWITCH	103016969
	Module for blocking the lift in the event that the telephone line fails.		2N L1 BLOCKING	103016970
	Speaker amplifier for noisy environments. Adjustable amplification.		2N L1 AMPLIFIER	103016971
	USB programming tool; For connection between cabin telephone unit and PC for configuration with the Lift1 Service Tool software.		2N L1-USB PROGRAMMING TOOL	103013039

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Lift8
Revolutionary solution for lift communication

Lift8
The advantages at a glance

Are you looking for a reliable lift communication system that conforms to strict safety standards and is easy to install? Then the Lift8 is the ideal solution for you.

Lift8 satisfies the appropriate European standards and, in addition to easy installation, exhibits a high degree of modularity. Communication interfaces such as GSM, UMTS, PSTN or VoIP can be freely selected. If requirements change, the existing installation can be expanded with ease.
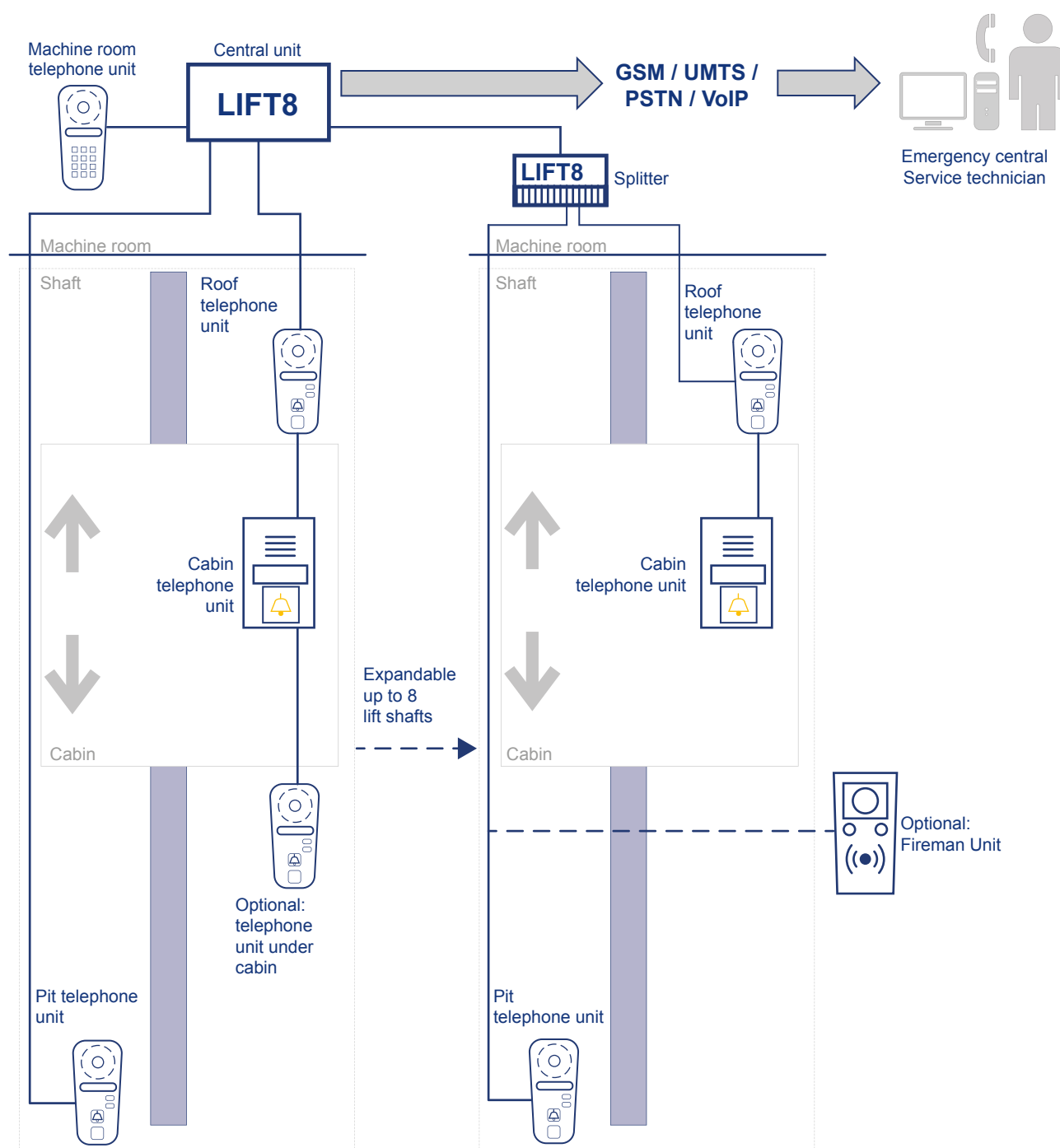
Lift8 uses a two-wire bus for connection of the communication units in the lift shaft, considerably simplifying overall installation.

- Simple installation with no unnecessary cabling (two-wire bus)
- Communication interface of your choice (GSM / UMTS / PSTN / VoIP)
- Maximum modularity
- Connection of up to 8 lifts on one telephone line
- Easy and comfortable operation
- Software apps for remote system administration
- Own call centre (without additional hardware)

GSM

VoIP

UMTS

PSTN

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Lift8
Sample application

Machine room telephone unit

Central unit
LIFT8

GSM / UMTS / PSTN / VoIP

Emergency central
Service technician

LIFT8 Splitter

Machine room

Shaft

Roof telephone unit

Cabin telephone unit

Expandable up to 8 lift shafts

Cabin

Optional: telephone unit under cabin

Pit telephone unit

Machine room

Shaft

Roof telephone unit

Cabin telephone unit

Cabin

Optional: Fireman Unit

Pit telephone unit

Lift8
Technical data

Central unit	
Power supply	100 … 240 VAC; 50/60 Hz; 0.75 A; 60 W
Backup power supply	Internal Lead Acid Battery
Wiring possibilities	4 telephone units + 7 splitter + 8 I/O-modules
Maximum distance between splitters	100 m
Interface for connection with lift service centre	Selectable PSTN / GSM / UMTS / VoIP
Configuration and monitoring	Language menu / USB / Remote
Signalling elements	5 x LED, three-colour
Dimensions (WxHxD) and weight	300 x 170 x 72 mm, 2.7 kg

Splitter	
Power supply	24 V, from Central Unit or local
Wiring possibilities	5 telephone units
Max. overall length of cable in shaft	600 m
Lift block impulse	Relay, NO und NC contacts
Dimensions (WxHxD)	142 x 98 x 34 mm

Telephone units	
Power supply	9 V AC/DC
Connected to splitter	Two-wire (voice and data)
Inputs for buttons and alarms	ALARM1, ALARM2, CANCEL
Signalling elements	Connecting, connection confirmed
Option of external microphone, speaker and LEDs	Yes, to the telephone unit in cabin
Numerical keypad, option of system configuration	Yes, on the telephone unit in machine room
Option to connect a telephone receiver in noisy environments	Yes, to telephone units in engine room and shaft
Visibility in shaft	Yes, back-lit buttons

Camera Module	
Power supply	12 … 18 VDC, max. 0.2 A
Camera interface	RS232 / RS485 and RJ-45
Dimensions (W x H x D)	142 x 98 x 34 mm
Memory card	microSD, up to 32 GB

I/O Module	
Power supply	24 V, from Central Unit or local
Connections	4 inputs + 4 outputs
Inputs	galvanised insulation, 12 … 24 V AC/DC
Outputs	Relay, NO contacts, max. 250 V, 5 A
Dimensions (W x H x D)	142 x 98 x 34 mm

GSM module	
Module	Telit GE910
Frequency	850 / 900 / 1800 / 1900 MHz

UMTS module	
Module	Telit HE910
Frequency	850 / 900 / 1900 / 2100 MHz

PSTN module
Compatible with all PSTN lines

VoIP module
Compatible with IP PBXs supporting SIP

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Lift8
Product overview – Central unit

Model	Figure	Description	Type designation	Material number
Central unit		Lift8 Central Unit is the main component of the system which provides the battery backup for all connected communication units.	**2N L8 CENTRAL UNIT**	**103013040**
		Central unit, as above, large version. For large systems if more space is required in the main unit.	**2N L8 CENTRAL UNIT MAXI**	**103013041**
Communication interfaces		Communication interface PSTN	**2N L8 PSTN CARD**	**103013042**
		Communication interface GSM	**2N L8 CENTRAL UNIT-GSM**	**103013043**
		Communication interface UMTS	**2N L8 CENTRAL UNIT-UMTS**	**103013044**
		Communication interface VoIP	**2N L8 CENTRAL UNIT-IP**	**103013045**
Interface for lift control	Without image	Interface for lift control	**2N L8 LAN MODULE**	**103016981**

Mounting	Figure	Description	Type designation	Material number
Mounting behind the control panel		Communication unit to be put behind COP, including loudspeaker, microphone (hands-free operation), LEDs. Necessary terminals and door opening signal input are provided as well.	**2N L8 CABIN UNIT-COP-FIXED**	**103013050**
		Cabin telephone unit for installation behind the cabin control panel; speaker, microphone, LEDs are wired separately for optimal positioning according to the lift control panel.	**2N L8 CABIN UNIT-COP-WIRED**	**103013051**
Surface mounting		Robust, metal-encased telephone unit. Only 16 mm profile, making it highly suitable for updating existing lift systems. — With alarm button	**2N L8 CABIN UNIT-COMPACT-SM**	**103013052**
		— Without alarm button	**2N L8 CABIN UNIT-COMPACT-SM-W/O BUTTON**	**103016978**
Flush mounting		Anti-vandal version of the telephone unit for installation in a lift cabin with a 1.5 mm stainless steel cover and alarm button. The stainless steel cover includes the required pictograms and operating instructions.	**2N L8 CABIN UNIT-FM**	**103016979**
		Anti-vandal version of the telephone unit for installation in a lift cabin with a 1.5 mm stainless steel cover. The original ALARM button on the lift COP can be easily connected.	**2N L8 CABIN UNIT-FM-W/O BUTTON**	**103013053**

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Figure	Description	Type designation	Material number
	Telephone unit for the machine room: incl. siren and keyboard, communication with all connected telephone units. Allows the complete Lift8 system to be programmed without a PC. Can be connected to multiple shaft systems.	**2N L8 MACHINE ROOM UNIT**	**103013056**
	Shaft telephone unit: can be installed in the shaft underneath or on top of the cabin. Hands-free mode, backlit keys for alarm and conference switching.	**2N L8 SHAFT UNIT**	**103013057**
	Shaft telephone unit: can be installed in the shaft underneath or on top of the cabin. Hands-free mode, backlit keys for alarm, no conference switching. Note: can only be used with cabin telephone unit behind the control panel and additional connection box.	**2N VOICE ALARM STATION TELEPHONE UNIT**	**103013070**
	Cabin telephone unit connection box (for installation behind the control panel) with shaft telephone unit.	**2N VOICE ALARM STATION L8 COP**	**103013059**
	Anti-vandalism telephone unit: Highly durable for tough ambient conditions.	**2N L8 SHAFT UNIT ANTIVANDAL**	**103016980**
	Fire service unit in enclosure	**2N L8 FIREMAN UNIT**	**103013054**
Without image	Fire service unit without enclosure: Circuit boards for use in existing enclosure.	**2N L8 FIREMAN UNIT PCB**	**103013055**

Product overview – Accessories

Figure	Description	Type designation	Material number
	Splitter: Allows connection of an additional lift shaft to the central unit; A maximum of seven splitters, i.e. 8 lifts in total, can be used with a single central unit. The splitter includes a contact that allows the lift to be blocked in the event of a fault.	**2N L8 SPLITTER**	**103013060**
	I/O module: Module with four logical inputs and four relay outputs. On one central unit it is possible to connect up to 8 I/O modules.	**2N L8 IO MODULE**	**103013061**
	Camera module: Can transmit a live image of the lift cabin in the event of an emergency call or at the request of the service control centre; In addition, the camera module can also be set so that images from the lift cabin are saved to a memory card at fixed intervals. The camera module can also be used as part of a Lift8 system, but as an independent module.	**2N L8 CAMERA MODULE**	**103013062**
	Symbol converter: Converts the cabin telephone unit LED outputs for universal indicator lamps.	**2N L8 EXTERNAL PICTOGRAMS CONNECTOR**	**103013064**
	Telephone receiver for connection to the machine room telephone unit in the event of a noisy environment.	**2N L8 HEAD SET-MACHINE ROOM UNIT**	**103013065**

Software for Lift Emergency Call Systems
Comprehensive management of the emergency call telephone units

Software for Lift Emergency Call Systems
The advantages at a glance

The call centre for lifts is a software solution that facilitates comprehensive management of lift emergency telephone units. It also allows for operation of alarm and control calls. It provides both a detailed overview of all calls initiated from the lift as well as the option of archiving calls or exporting data, e.g. for creating customer reports.

- Management of control and alarm calls
- No additional hardware required
- Supports CPC and P100 protocols

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Software for Lift Emergency Call Systems
Configuration software

LiftIP Service Tool

The LiftIP Service Tool simplifies configuration of a LiftIP lift emergency call system. It also allows software updates and modification of the language used in audio notifications.

Lift1 Service Tool

The Lift1 Service Tool software allows for complete adjustment and setting of the Lift1 lift emergency call system. In addition, the software can also be used for configuration, upgrades and changes to language versions.

Lift8 Service Tool

The Lift8 Service Tool is software used for local (USB) or remote (IP) configuration of one complete Lift8 communication system (audio messages, additional modules, splitters and I/O modules).

General accessories
Product overview

Figure	Description	Type designation	Material number
	Induction loop: Communication aid for people with hearing impairments. Satisfies the requirements of EN 81-70. Can be used with any device that emits an audio signal. Included 4m antenna provides sufficient cabin coverage.	**2N LIFT INDUCTION LOOP-4M**	**103016985**
	2Wire converter: Allows you to connect any IP device in the lift cabin. You can avoid the time-consuming and costly installation of a new travelling cable to bring a LAN network and internet to any device into the cabin.	**2N 2WIRE**	**103013072**
	Emergency call button in the enclosure for installation underneath or on top of the lift cabin.	**2N EMERGENCY BUTTON**	**103013073**
	Floor Annunciator: Informs people in the lift cabin about the current floor number, the subsequent direction of travel and warns of closing and opening doors or cabin overload.	**2N FLOOR ANNUNCIATOR**	**103013068**
	External speaker with 1 m cable	**2N EX-SPEAKER-1M**	**103016986**
Without image	External microphone with 1 m cable	**2N EX-MIC-1M**	**103016987**
Without image	Omnidirectional antenna, gain 9 dB, 10 m cable, SMA connection. The external antenna ensures a high-quality signal in any situation.	**2N HIGH GAIN ANTENNA GEWINNK 9dB-10M**	**103027310**

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Appendix
Product index

Type designation	Material number
EasyGate PRO	
2N GSM GATEWAY-SMS	103016982
2N UMTS GATEWAY-SMS	103016983
2N VoLTE GATEWAY-SMS	103016984
LiftIP	
2N IP CABIN UNIT-COP-FIXED	103016972
2N IP CABIN UNIT-COP-WIRED	103016973
2N IP CABIN UNIT-FM	103016974
2N IP CABIN UNIT-FM-W/O BUTTON	103016975
2N IP CABIN UNIT-TOC	103016976
2N IP CABIN UNIT-TOC-W/O SWITCH	103016977
Lift1	
2N L1 CABIN UNIT-COP-FIXED	103013031
2N L1 CABIN UNIT-COP-WIRED	103013032
2N L1 CABIN UNIT-COMPACT-SM	103013033
2N L1 CABIN UNIT-COMPACT-SM-W/O BUTTON	103016988
2N L1 CABIN UNIT-FM	103016962
2N L1 CABIN UNIT-FM-W/O BUTTON	103013034
2N L1 CABIN UNIT-TOC	103016964
2N L1 CABIN UNIT-TOC-W/O SWITCH	103016968
2N LINE SWITCH MR	103026387
2N L1 MACHINE ROOM STATION SET	103013035
2N VOICE ALARM STATION TELEPHONE UNIT	103013070
2N VOICE ALARM STATION L1	103013037
2N VOICE ALARM STATION L1 COMPACT	103013038
2N L1 SWITCH	103016969
2N L1 BLOCKING	103016970
2N L1 AMPLIFIER	103016971
2N L1-USB PROGRAMMING TOOL	103013039

Type designation	Material number
Lift8	
2N L8 CENTRAL UNIT	103013040
2N L8 CENTRAL UNIT MAXI	103013041
2N L8 PSTN CARD	103013042
2N L8 CENTRAL UNIT-GSM	103013043
2N L8 CENTRAL UNIT-UMTS	103013044
2N L8 CENTRAL UNIT-IP	103013045
2N L8 LAN MODULE	103016981
2N L8 CABIN UNIT-COP-FIXED	103013050
2N L8 CABIN UNIT-COP-WIRED	103013051
2N L8 CABIN UNIT-COMPACT-SM	103013052
2N L8 CABIN UNIT-COMPACT-SM-W/O BUTTON	103016978
2N L8 CABIN UNIT-FM	103016979
2N L8 CABIN UNIT-FM-W/O BUTTON	103013053
2N L8 MACHINE ROOM UNIT	103013056
2N L8 SHAFT UNIT	103013057
2N VOICE ALARM STATION TELEPHONE UNIT	103013070
2N VOICE ALARM STATION L8 COP	103013059
2N L8 SHAFT UNIT ANTIVANDAL	103016980
2N L8 FIREMAN UNIT	103013054
2N L8 FIREMAN UNIT PCB	103013055
2N L8 SPLITTER	103013060
2N L8 IO MODULE	103013061
2N L8 CAMERA MODULE	103013062
2N L8 EXTERNAL PICTOGRAMS CONNECTOR	103013064
2N L8 HEAD SET-MACHINE ROOM UNIT	103013065
Accessories	
2N LIFT INDUCTION LOOP-4M	103016985
2N 2WIRE	103013072
2N EMERGENCY BUTTON	103013073
2N FLOOR ANNUNCIATOR	103013068
2N EX-SPEAKER-1M	103016986
2N EX-MIC-1M	103016987
2N HIGH GAIN ANTENNA GEWINNK 9dB-10M	103027310

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System solutions for every lift. Everywhere.

Our customers lift systems are at the focus of our attention. Regardless if it's a new system or a modernisation – with our years of experience we identify an individual or standardised solution according to your requirements. Our common goal is to guarantee the safe movement of the lift system for the users.

Schmersal Böhnke + Partner is a member of the Schmersal Group. With its products, the ownermanaged Schmersal Group has dedicated itself to the safety of people and machines for many decades. The company was founded in 1945, and is represented by seven manufacturing sites on three continents and with its own companies and sales partners in more than 60 nations. In the demanding field of machine safety the Schmersal Group is one of the international market and competence leaders. Based on a comprehensive product portfolio, the company's approximately 2000 employees develop and plan complete safety-related system solutions.

For over 50 years we have supplied high-quality components for the lift industry. With the acquisition of Böhnke + Partner to the Schmersal Group, we took over the system concept to our lift area. Since then, the product portfolio – with control systems and components – includes all necessary elements for equipping a lift system from electrical point of view.

We supply lift manufacturers with our products all over the world. The Schmersal Group has four production plants in Germany and one each in Brazil, China and India. We offer the flexibility of a medium-sized company, combined with the international presence of a company group.

Control modules

Components for lift construction

Control system assembly

The details and data referred to have been carefully checked.
Technical amendments and errors possible.

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