

CONCENTO^{CARE}

Data Sheet Catalogue

Modular nurse call system
for future-oriented care



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Preliminary notes on CONCENTO^{CARE}

General information

CONCENTO^{CARE} is a nurse call and communication system for nursing homes, senior residences, residential complexes, assisted living, facilities for the disabled, ambulances, health clinics, rehabilitation centres and hospitals. It is a nurse call system in accordance with the German standard DIN VDE 0834 parts 1 and 2, i.e. a system which can be used to call or search for people; additional information can also be transmitted. CONCENTO^{CARE} is a scalable system. Its scope of performance ranges from a standard nurse call system without speech communication to a networked communication system with speech communication.

Standards

The nurse call system complies with the requirements of DIN VDE 0834 parts 1 and 2 including the applicable regulations described in this standard.

Types of call

The system offers all call types according to DIN VDE 0834 and a large selection of other call types containing important information. Priority levels are assigned to the individual call types. The system has 30 priority levels. A selection of call types:

- Call category alarm calls: Cardiac Alarm, Fire Alarm.
- Call category emergency calls: Emergency 1, Emergency Bed 1...6, Emergency WC, Emergency Radio, Diagnostic Call.
- Call category calls: Room Call, Call Bed 1...6, WC Call, Radio Call, Service Call, Service Call Bed 1...6, Technical Call, Door Alarm, Inactivity (of the resident).

System interfaces allow the integration of further alarm and safety equipment. Responsibilities, priorities and escalation routines are stored in the nurse call system according to the respective service situation. This provides the nursing staff with a homogeneous information medium.

Radio-based call devices

CONCENTO^{CARE} offers system extensions with radio-based call devices to increase safety for residents/patients and staff. The use of radio transmitters enables mobile call initiation by residents or patients.

The radio-based devices operate on the exclusive social alarm frequency 869.2125 MHz. Automatic monitoring of battery status is integrated in all radio-based call devices.

Call display

Calls are displayed as standard on the room lamp at the call location, in the rooms where staff are present, and on corridor displays.

The room lamps have three light sections. In addition to the standard light sections for call and presence, there is a third light section for configurable use, e.g. for WC call and/or service call.

The room controllers display insert and call/presence insert serve to display calls in the rooms where staff have activated their presence. On both devices, the calls are signalled by a tone sequence according to their call category. The display insert additionally shows the call information in clear text.

The display insert shows not only calls but also presences and possible faults. The message with the highest priority is displayed first. Further messages are scrolled through automatically. An optional intercom insert can be installed, which allows manual scrolling through the messages.

The call indication in the display consists of the call type as 6-digit short designation and the call location. The call location can be entered as a text with a maximum length of 25 characters when configuring the nurse call system. Texts with more than 16 characters are displayed as tickers.

16-digit and 12-digit corridor displays are available, in single-sided or double-sided versions. The call display consists of the call type as 6- or 3-digit short designation and the call location. The call location can be entered as text with a maximum length of 25 characters when configuring the nurse call system. Texts with more than 9 characters for the 16-digit corridor displays or more than 8 characters for the 12-digit corridor displays are displayed as tickers. Alternatively, a separate display text (9 or 8 characters) can be set.

The call locations are assigned to the call display units via the system time zones, as described in the "Care organisation" section.

Individual display inserts can be permanently set to "All calls" - independent of the set time zone. With this setting, all calls from the nurse call system are displayed. This function is intended, for example, for gatekeepers or a central, occupied position in the house.

Call handling

In order to be able to use speech communication in the nurse call system, the room controls must be supplemented by a so-called intercom insert. Room control, i.e. display insert or call/presence insert, and intercom insert are installed directly on interconnected back boxes.

Calls that can be answered can be handled from the display insert with intercom insert and remotely cancelled or parked after the nurse or caregiver has spoken to the patient or resident.

Use of telephones

CONCENTO^{CARE} interfaces enable call display on mobile devices. Call information can be displayed on pagers and DECT telephones. Call information can be transmitted to telephones in the form of voice announcements. The assignment of call types and call locations to mobile devices can be configured within wide limits.

Telephones can be used as mobile consoles by establishing a speech connection to the call location.

A complete night switch-over of the nurse call system to a telecare monitoring centre is possible.

Announcements

Announcements can be made from the staff room of the ward, i.e. from a display insert which is installed together with an intercom insert and set to room type "staff room".

Possible announcement objective:

- Announcement to all rooms with activated presence of your ward as well as wards coupled with your ward.

- Announcement to all rooms of your ward as well as wards coupled with your ward.
- Announcement to all rooms of a selected ward.

Flexibility

By using the corresponding room controllers, systems with speech as well as systems without speech can be utilised. A mixed operation of nurse call with speech (with intercom use) and without speech in a system or within a ward is possible for different use in one house. State-of-the-art voice transmission technology is used for system-wide communication with intercom, several voice channels are possible for flexible use.

CONCENTO^{CARE} is future-proof due to its option for functional extensions via the existing system infrastructure for all bus components in the event of organisational and architectural changes.

Care organisation

The nurse call system provides a valuable contribution to increasing the efficiency of the nursing organisation.

It reflects the shift operation of the building by flexibly structuring the area of responsibility of the nursing staff. The area of responsibility of the staff often changes in the different shifts. While staff are responsible for one ward during the day, for example, staff are often responsible for several wards during the night shift. The nurse call system is organised in such a way that all calls in this area of responsibility are displayed and answered in the area of responsibility of the staff.

Responsibilities are organised using so-called time zones. Up to 9 different time zones can be predefined for each nurse call system. For each time zone it is stored which area of responsibility the staff has during this time, i.e. which wards are organisationally coupled during this time zone. A certain time zone can be switched on automatically in a time-controlled manner or manually by operating a device of the nurse call system (display insert in the staff room).

The forwarding of call messages via ESPA 4.4.4 and the various telephony connection options also make a decisive contribution to supporting the care organisation.

Installation

The nurse call and communication system is based on a decentralised structure and a modular, step-by-step expansion concept. The system works without central control units, which means high reliability.

The standard cabling is from room to room as bus line with telephone cable J-Y(St)Y 4x2x0.8 incl. power supply. A system cable is not required.

The room controllers and all room devices are mounted in standard back boxes.

CONCENTO^{CARE} offers simple system maintenance through central programming, maintenance and configuration with the Management Software ConLog^{CARE}.

Renovations

CONCENTO^{CARE} can be built on different cable infrastructures thanks to the wide range of room controllers.

Design

CONCENTO^{CARE} is the result of a cooperation with Busch-Jaeger Elektro. A selection of different Busch-Jaeger designs are available for room components to adapt to the architectural design: Reflex SI, future® linear, Busch-balance® SI.

System interfaces

Interfaces to external systems increase the efficiency of the nurse call system. The Management Interface and the system interface LAN are designed for communication with external systems.

Calls can be forwarded to alarm servers or radio paging systems via both devices. This interface is designed as a serial RS232 connection using the standard ESPA 4.4.4 protocol. Calls are forwarded according to the logical groups of the system.

Free text input enables adaptation to the displays of a wide variety of mobile devices or radio paging systems.

The display of call messages on DECT telephones is possible in the same way with both the Management Interface and the system interface LAN.

Only the Management Interface additionally supports call handling by telephone with speech connection. Call forwarding to mobile telephones enables permanent availability of the staff with display and handling of calls. Three types of call receivers are available for the telephony connection:

1. Normal telephone: The information about the call is given via a synthetic voice announcement.
2. DECT telephone: In addition to the telephone call, the calls are also displayed in advance on the DECT telephone's display.
3. Telecare monitoring centre: Forwarding of calls to a telecare monitoring centre PNC, for example as night switch-over.

The forwarding is carried out according to the logical groups of the system. There are 3 time zones for Monday to Friday and 3 further time zones for Saturday and Sunday.

Fault messages are considered system-wide and can be forwarded to the above-mentioned call receivers.

The connections of DECT, alarm server/radio paging system and telephony are monitored. Failures are signalled in the nurse call system.

The available fire alarm interface is used to connect a fire alarm system to the nurse call system using ESPA protocol 4.4.4. The fire alarm interface is connected via the data protocol for the fire brigade display panel FAT 2002 of the manufacturer IFAM. Note: This system does not replace a fire alarm system according to DIN VDE 0833.

Management Software

The configuration of the nurse call system as well as the call logging is done centrally with the Con-Log^{CARE} Management Software. The PC with the Management Software is connected to the nurse call system via the Ethernet interface of the Management Interface or the system interface LAN. Remote maintenance of the nurse call system is also possible in this way. The Management Software can be operated as a single-user version or in a server/client structure.

Due to the freely definable user administration, only those functions are available to the user groups that they need for their work.

A convenient alarm stack is available for displaying the activities in the system, which displays the currently pending calls and presences in the system as active messages and status messages.

Data management is project-based. Automatic, daily backup of the databases with time setting is also possible as online backup.

The basic module contains the module LiveUpdate for 1 year (Internet access required), which enables the authorization for online updates of the Management Software as well as the download of device firmware. Further modules have to be ordered separately.

The call recording module supplements the basic module with the logging and evaluation of all system events of the nurse call system. Comprehensive reports can be generated. For the report generation you can select according to rooms, call types etc.. The call history is stored in an SQL project database.

Optionally, up to 15 additional workstations (clients) can be set up, which extend the basic module of the ConLog^{CARE} Management Software by workstations with the same range of functions.

The additional project module extends the basic module of the ConLog^{CARE} Management Software by the connection of up to 14 further CONCENTO^{CARE} nurse call systems.

Operational safety

Highest operational safety according to DIN VDE 0834 due to an independent cable and transmission network and permanent function monitoring. Maximum functional reliability due to modular system design with decentralised control units.

The display insert (if the presence is activated) and the corridor display show faults with fault location. The faults are displayed in the same way as calls, i.e. initially only in the own ward or, in the case of group coupling, in the coupled wards. If the fault is not rectified within a specified time (adjustable with the ConLog^{CARE} Management Software), it will be displayed in all wards of the house.

All fault messages of the nurse call system can be found in the call recording module of the ConLog^{CARE} Management Software by viewing and evaluating the call log of the pending messages.

Additional operating and fault displays on the devices of the system control (Management Interface, system interface LAN, group controller) clearly indicate the operating status of the nurse call system to the system technician. The existing potential-free fault contacts on these system devices are used for connection, e.g. to a building control system or PBX.

1. Room controllers

Display insert

Room controller with display, without frame

29 0700 80...

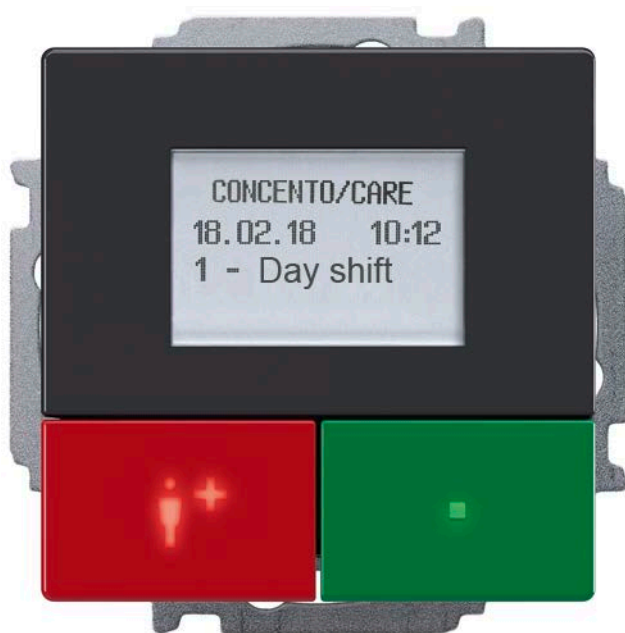


Figure shows order no. 29 0700 80F

General description

The display insert is a room controller. It controls and monitors all room functions in compliance with DIN VDE 0834 and is a bus user on the ward bus. The room lamp and the room bus (RAN) with the intelligent room components are connected to the display insert.

If the ward bus fails, the display insert continues to work autonomously for the room. This ensures maximum operational reliability.

The display insert is used for operation by the staff. Presence button with reminder light for switching staff presence on and of. Call button with reassurance light for triggering calls. Display and beeper for signalling forwarded calls.

The reassurance light illuminates brightly as soon as a call is raised. If presence in the room is switched on when a call is raised, an emergency call is triggered.

The reminder light is on while the presence is switched on.

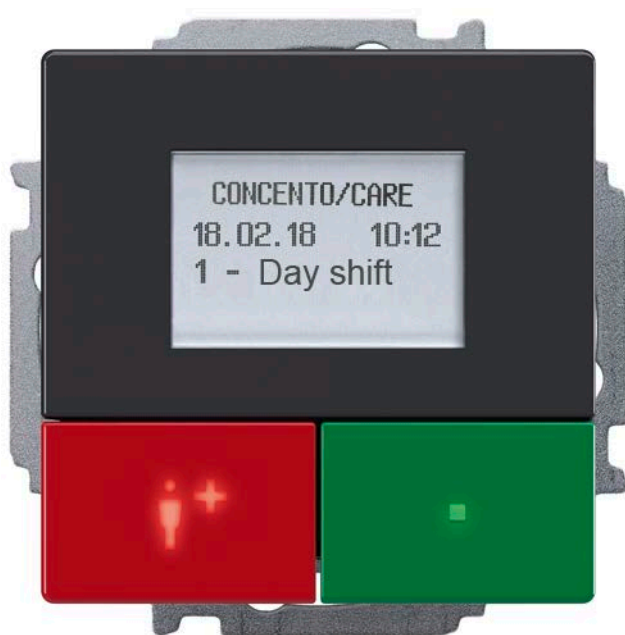
Specification

- 4-line, 16-digit dot matrix display with back-light.
- Red call button with reassurance light and integrated location light
- Green presence button with reminder light for switching on and off the presence
- When presence is switched on, calls, presences and potential faults in the ward are shown on the display
- In addition to the indication in the display, calls are signalled by a tone sequence. Tone sequence depends on the call category.
- Display of call type as short designation
- The display of the call location can be defined when setting up the nurse call system. Texts with more than 16 characters are displayed as tickers. Alternatively, display of the 3-digit ward number and the 4-digit room number.
- If several messages are present, the message with the highest priority is shown on the display first. If the display insert is installed together with an intercom insert, the double arrow button can be used to scroll through all messages. If there is no intercom insert, the messages are automatically displayed in alternation for 5 seconds.
- In the staff room, the display shows the active ward coupling during idle state, e.g. "Day shift".
- Inactivity monitoring can be activated
- Programming of the display insert via the two buttons
- Identifiable as part of nurse the call system through design features
- Wall mounting in deep 1-gang back box
- Can be mounted in single frame or multi-frame
- Connection with an intercom insert possible to extend with speech function as well as some comfort functions, order separately

Display insert

Room controller with display, without frame

29 0700 80...



Scope of supply

- Control element
- Basic module
- Mounting plate
- Terminal block, 2-pole, black/red, plugged in
- Installation instructions

Technical data

Power supply:	24 V DC
Standby current consumption:	38 mA
Degree of protection:	IP20
Dimensions (HxW):	71 x 71 mm
Installation depth:	32 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 85 %

Figure shows order no. 29 0700 80F

Order number	Product name	Notes
29 0700 80RS	Display insert	Design Reflex SI
29 0700 80F	Display insert	Design future® linear
29 0700 80BS	Display insert	Design Busch-balance® SI
Order frame separately:		
29 9200 01RS	Frame-T RS, 1-gang	Design Reflex SI
29 9200 02RS	Frame-T RS, 2-gang, v	Design Reflex SI, e.g. for installation with intercom insert
29 9200 01F	Frame-T F, 1-gang	Design future® linear
29 9200 02F	Frame-T F, 2-gang, v	Design future® linear, e.g. for installation with intercom insert
29 9200 01BS	Frame-T BS, 1-gang	Design Busch-balance® SI
29 9200 02BS	Frame-T BS, 2-gang, v	Design Busch-balance® SI, e.g. for installation with intercom insert
Necessary accessories, order separately:		
17 0100 20	Back box solid wall, deep, 1-gang	see appendix "Accessories"
17 5100 20	Back box partition wall, deep, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9500 20	Terminal block, 2-pole, bk/rd	

Call/presence insert

Room controller, without frame

29 0701 00...

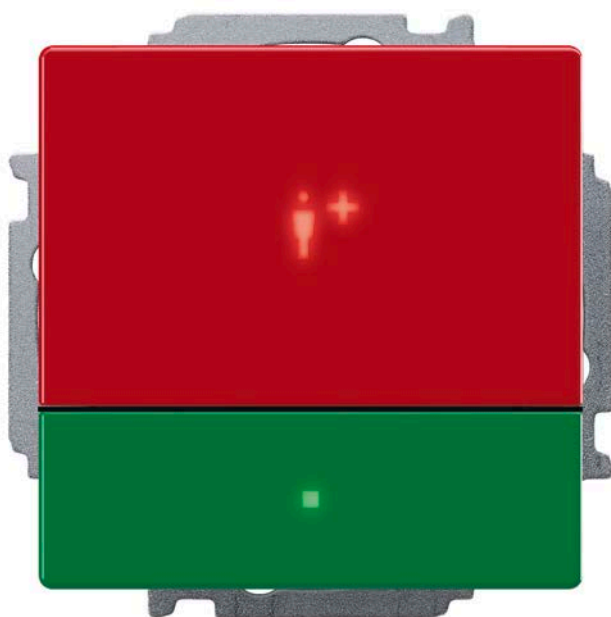


Figure shows order no. 29 0701 00F

General description

The call/presence insert is a room controller. It controls and monitors all room functions in compliance with DIN VDE 0834 and is a bus user on the ward bus. The room lamp and the room bus (RAN) with the intelligent room components are connected to the call/presence insert.

If the ward bus fails, the call/presence insert continues to work autonomously for the room. This ensures maximum operational reliability.

The call/presence insert is used for operation by the staff. Presence button with reminder light for switching staff presence on and off. Call button with reassurance light for triggering calls. Beeper for signalling forwarded calls.

The reassurance light illuminates brightly as soon as a call is raised. If presence in the room is switched on when a call is raised, an emergency call is triggered.

The reminder light is on while the presence is switched on.

Specification

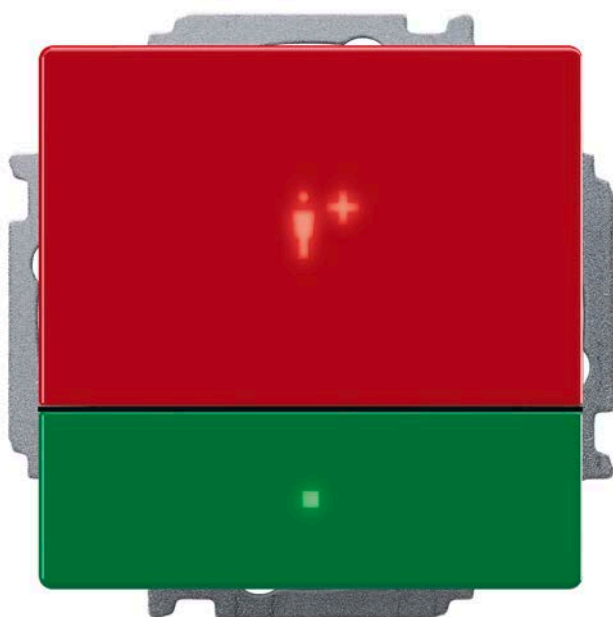
- Red call button with reassurance light and integrated location light
- Green presence button with reminder light for switching on and off the presence
- Acoustic signalling of forwarded calls when presence is switched on, tone sequence depends on the call category
- Inactivity monitoring
- Identifiable as part of nurse the call system through design features
- Wall mounting in deep 1-gang back box
- Can be mounted in single frame or multi-frame
- Connection with an intercom insert possible to extend with speech function, order separately

Call/presence insert

Room controller, without frame

29 0701 00...

Page 2



Scope of supply

- Control element
- Basic module
- Mounting plate
- Terminal block, 2-pole, black/red, plugged in
- Installation instructions

Technical data

Power supply:	24 V DC
Standby current consumption:	36 mA
Degree of protection:	IP20
Dimensions (HxW):	71 x 71 mm
Installation depth:	32 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 85 %

Figure shows order no. 29 0701 00F

Order number	Product name	Notes
29 0701 00RS	Call/presence insert	Design Reflex SI
29 0701 00F	Call/presence insert	Design future® linear
29 0701 00BS	Call/presence insert	Design Busch-balance® SI
Order frame separately:		
29 9200 01RS	Frame-T RS, 1-gang	Design Reflex SI
29 9200 02RS	Frame-T RS, 2-gang, v	Design Reflex SI, e.g. for installation with intercom insert
29 9200 01F	Frame-T F, 1-gang	Design future® linear
29 9200 02F	Frame-T F, 2-gang, v	Design future® linear, e.g. for installation with intercom insert
29 9200 01BS	Frame-T BS, 1-gang	Design Busch-balance® SI
29 9200 02BS	Frame-T BS, 2-gang, v	Design Busch-balance® SI, e.g. for installation with intercom insert
Necessary accessories, order separately:		
29 0701 80...	Room programming interface	One is required per nurse call system for programming the call/presence inserts. See appendix "Accessories".
17 0100 20	Back box solid wall, deep, 1-gang	see appendix "Accessories"
17 5100 20	Back box partition wall, deep, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9500 20	Terminal block, 2-pole, bk/rd	

Intercom insert

Speech module, without frame

29 0701 30...

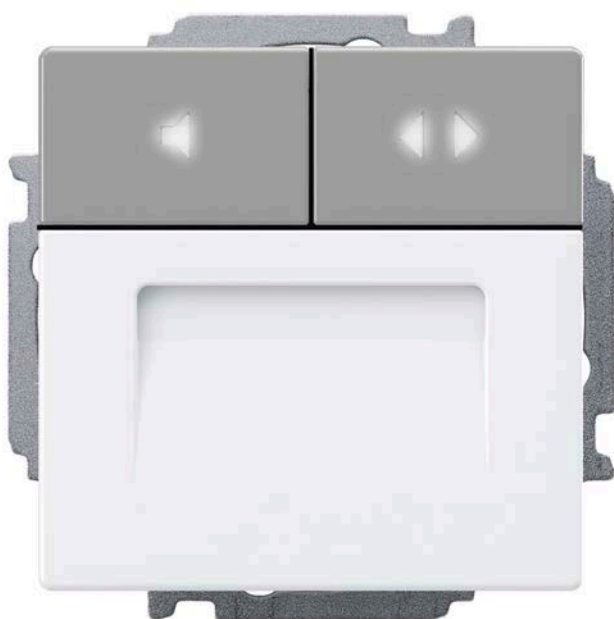


Figure shows order no. 29 0701 30F

General description

The intercom insert is intended for connection to a display insert or a call/presence insert. The intercom insert supplements this with the function of speech communication between patients or residents and staff. Furthermore, the Intercom insert adds comfort functions to the display insert.

Wall mounting in deep 1-gang back box, which is connected to the back box of the display insert or call/presence insert.

Specification

- Speech communication in outstanding quality through automatic adaptation to the acoustic conditions of the room
- Microphone and loudspeaker
- Grey answer button (speaker symbol) to answer calls by establishing a speech connection to the call location. LED is on while the speech connection is established.
- Grey remote cancel button ("double arrow" symbol) for remote cancelling of answered, remote cancellable calls
- Use for inactivity monitoring possible. Loudspeaker button = day button for the resident, double arrow button = away button for the resident.

Comfort functions available with display insert

- If several messages are present, the double arrow button can be used to turn through the messages.
- Talk to staff in other rooms possible.
- In the staff room, announcements can be made to a ward or rooms within the ward with presence switched on.
- In one staff room per nurse call system, ward coupling can be set manually.

Intercom insert

Speech module, without frame

29 0701 30...

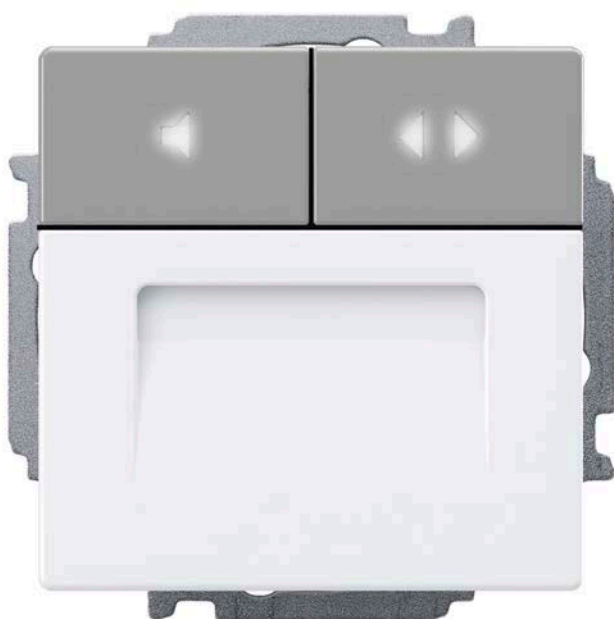


Figure shows order no. 29 0701 30F

Scope of supply

- Intercom insert
- Terminal block, 2-pole, light grey/dark grey, plugged in
- Terminal block, 3-pole, black/yellow/red
- Installation instructions

Technical data

Nominal voltage:	24 V DC
Standby current consumption:	35 mA
Degree of protection:	IP20
Dimensions (HxW):	71 x 71 mm
Installation depth:	32 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 85 %

Order number	Product name	Notes
29 0701 30RS	Intercom insert	Design Reflex SI
29 0701 30F	Intercom insert	Design future® linear
29 0701 30BS	Intercom insert	Design Busch-balance® SI
Order frame separately:		
29 9200 02RS	Frame-T RS, 2-gang, v	Design Reflex SI
29 9200 02F	Frame-T F, 2-gang, v	Design future® linear
29 9200 02BS	Frame-T BS, 2-gang, v	Design Busch-balance® SI
Necessary accessories, order separately:		
17 0100 20	Back box solid wall, deep, 1-gang	see appendix "Accessories"
17 5100 20	Back box partition wall, deep, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9500 21	Terminal block, 2-pole, gy/gy	
19 9500 32	Terminal block, 3-pole, bk/ye/rd	

2. Switches

Presence switch insert

without frame

29 0706 00...

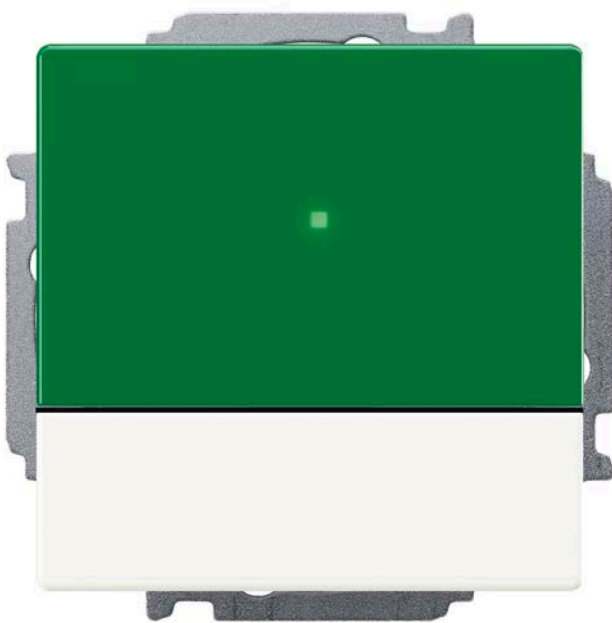


Figure shows order no. 29 0706 00F

General description

Switch insert with a presence button with reminder light for extending the display insert or call/presence switch insert to enable the presence to be switched on and off at another door.

The reminder light is on while the presence is switched on.

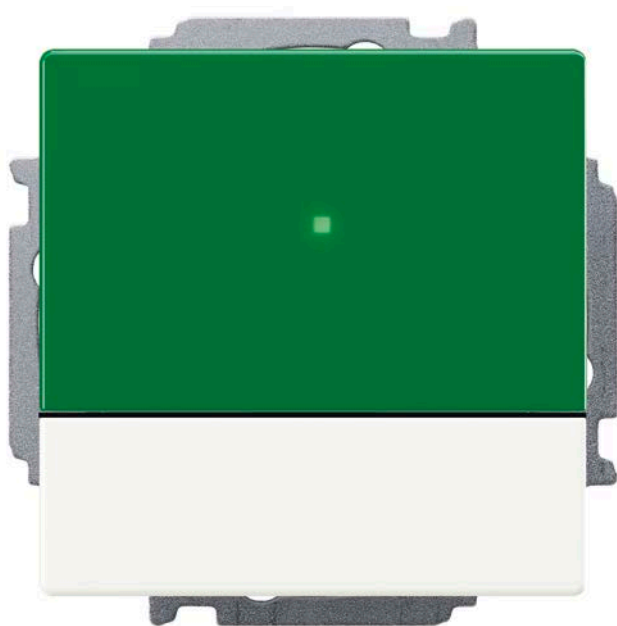
Specification

- Green presence button with reminder light for switching on and off the presence
- Identifiable as part of nurse the call system through design features
- Easy plug-and-play mounting
- Wall mounting in 1-gang back box
- Can be mounted in single frame or multi-frame
- Integrated electronics with 3-pole plug connection for the room bus (RAN)

Presence switch insert

without frame

29 0706 00...



Scope of supply

- Presence switch insert
- Mounting plate
- Terminal block, 5-pole, black/yellow/red/light grey/ dark grey, plugged in
- Installation instructions

Technical data

Nominal voltage:	24 V DC
Standby current consumption:	8 mA
Dimensions (HxW):	71 x 71 mm
Degree of protection:	IP22
Installation depth:	24 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 95 %

Figure shows order no. 29 0706 00F

Order number	Product name	Notes
29 0706 00RS	Presence switch insert	Design Reflex SI
29 0706 00F	Presence switch insert	Design future® linear
29 0706 00BS	Presence switch insert	Design Busch-balance® SI
Order frame separately:		
29 9200 01RS	Frame-T RS, 1-gang	Design Reflex SI
29 9200 01F	Frame-T F, 1-gang	Design future® linear
29 9200 01BS	Frame-T BS, 1-gang	Design Busch-balance® SI
Necessary accessories, order separately:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9500 19	Terminal block, 5-pole, bk/ye/rd/gy/gy	

Call switch insert with connector

without frame

29 0704 00...

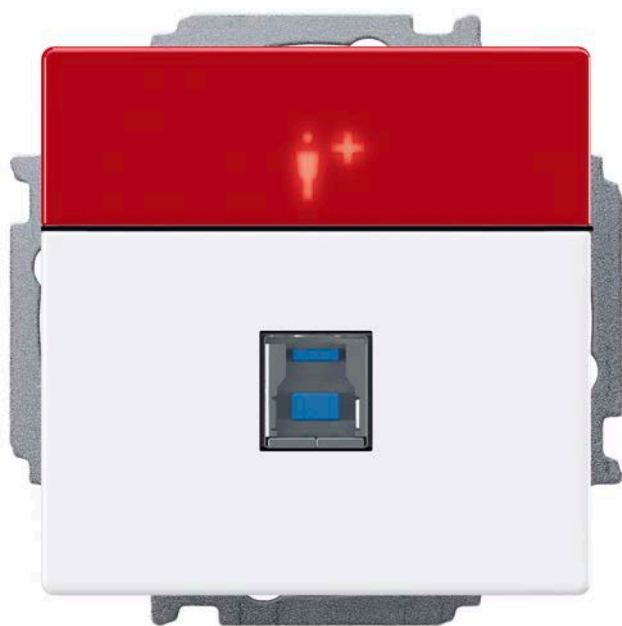


Figure shows order no. 29 0704 00F

General description

Switch insert with a red call button with reassurance light for triggering calls and a connection socket for connecting a pluggable call device, e.g. a pear push switch, order no. 29079000 or 29079002.

The reassurance light illuminates brightly as soon as a call is raised. If presence in the room is switched on when a call is raised, an emergency call is triggered.

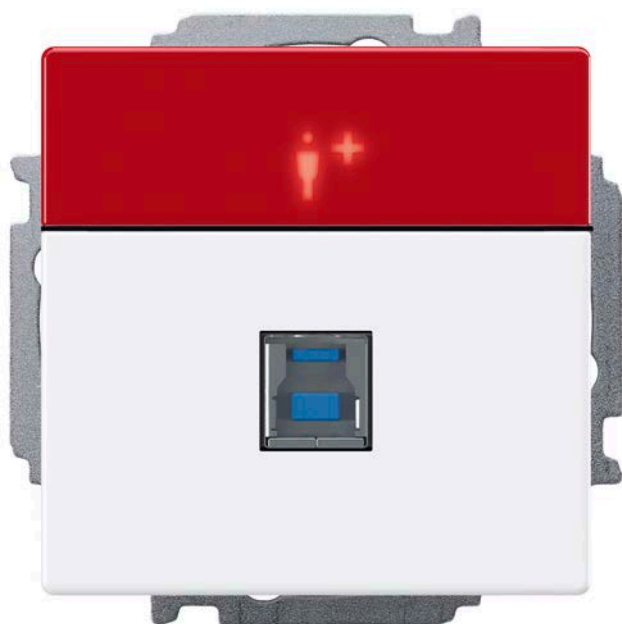
Specification

- Red call button with reassurance light and integrated location light
- USB socket with plug monitoring for a pear push switch or other pluggable call device
- Bed number (1 - 6) can be set to identify the call location in a multi-bed room
- Switching output for light switching by the pear push switch, order no. 29079002; 24 V DC signal for the duration of the button press; output current max. 50 mA
- Identifiable as part of nurse the call system through design features
- Easy plug-and-play mounting
- Wall mounting in 1-gang back box
- Mounting in single frame or multi-frame
- Integrated electronics with 3-pole plug connection for the room bus (RAN)

Call switch insert with connector

without frame

29 0704 00...



Scope of supply

- Call switch insert with connector
- Mounting plate
- Terminal block, 5-pole, black/yellow/red/light grey/ dark grey, plugged in
- Installation instructions

Technical data

Nominal voltage:	24 V DC
Standby current consumption:	9 mA
Degree of protection:	IP20
Dimensions (HxW):	71 x 71 mm
Installation depth:	24 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 85 %

Figure shows order no. 29 0704 00F

Order number	Product name	Notes
29 0704 00RS	Call switch insert with connector	Design Reflex SI
29 0704 00F	Call switch insert with connector	Design future® linear
29 0704 00BS	Call switch insert with connector	Design Busch-balance® SI
Order frame separately:		
29 9200 01RS	Frame-T RS, 1-gang	Design Reflex SI
29 9200 12RS	Frame-T RS, 2-gang, h	Design Reflex SI, e.g. for installation with radio receiver-T UP
29 9200 01F	Frame-T F, 1-gang	Design future® linear
29 9200 12F	Frame-T F, 2-gang, h	Design future® linear, e.g. for installation with radio receiver-T UP
29 9200 01BS	Frame-T BS, 1-gang	Design Busch-balance® SI
29 9200 12BS	Frame-T BS, 2-gang, h	Design Busch-balance® SI, e.g. for installation with radio receiver-T UP
Necessary accessories, order separately:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9500 19	Terminal block, 5-pole, bk/ye/rd/gy/gy	

Call switch insert

without frame

29 0708 00...

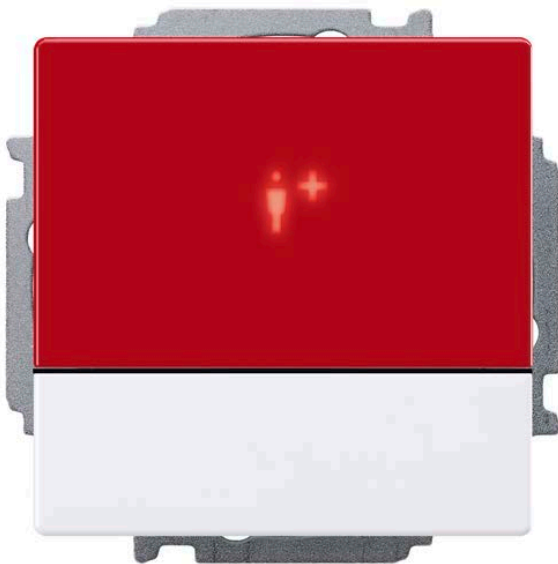


Figure shows order no. 29 0708 00F

General description

Switch insert with a red call button with reassurance light for triggering calls or WC calls.

The reassurance light illuminates brightly as soon as a call is raised. If presence in the room is switched on when a call is raised, an emergency call is triggered.

Specification

- Red call button with reassurance light and integrated location light
- Usable for call (factory setting) or WC call
- Bed 1 - 6 can be set
- Identifiable as part of nurse the call system through design features
- Easy plug-and-play mounting
- Wall mounting in 1-gang back box
- Mounting in single frame or multi-frame
- Integrated electronics with 3-pole plug connection for the room bus (RAN)

Call switch insert

without frame

29 0708 00...



Figure shows order no. 29 0708 00F

Scope of supply

- Call switch insert
- Mounting plate
- Terminal block, 5-pole, black/yellow/red/light grey/dark grey, plugged in
- Installation instructions

Technical data

Nominal voltage:	24 V DC
Standby current consumption:	9 mA
Degree of protection:	IP22
Dimensions (HxW):	71 x 71 mm
Installation depth:	24 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 95 %

Order number	Product name	Notes
29 0708 00RS	Call switch insert	Design Reflex SI
29 0708 00F	Call switch insert	Design future® linear
29 0708 00BS	Call switch insert	Design Busch-balance® SI
Order frame separately:		
29 9200 01RS	Frame-T RS, 1-gang	Design Reflex SI
29 9200 01F	Frame-T F, 1-gang	Design future® linear
29 9200 01BS	Frame-T BS, 1-gang	Design Busch-balance® SI
Necessary accessories, order separately:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9500 19	Terminal block, 5-pole, bk/ye/rd/gy/gy	

Cancel switch insert

without frame

29 0709 00...

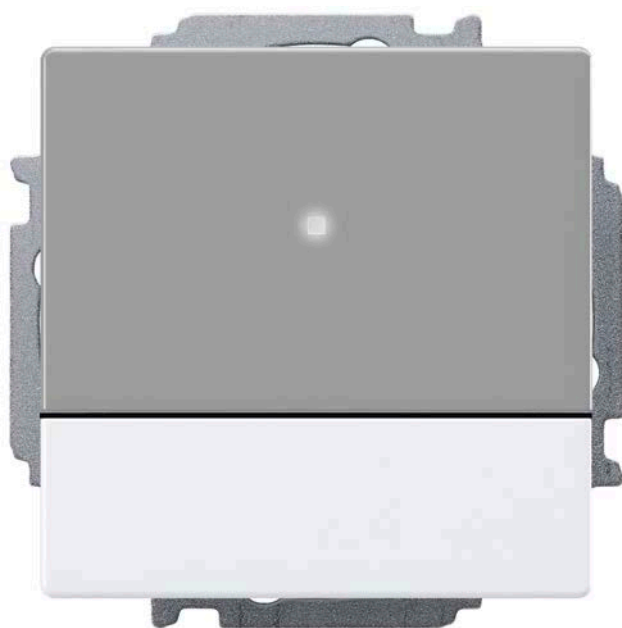


Figure shows order no. 29 0709 00F

General description

Switch insert with a grey cancel button with reminder light for cancelling WC calls and emergency calls WC in the WC area.

The reminder light is on when a WC call or emergency call WC has been triggered that must be cancelled with this cancel button.

Specification

- Grey cancel button with reminder light for cancelling WC calls and emergency calls WC
- Identifiable as part of nurse the call system through design features
- Easy plug-and-play mounting
- Wall mounting in 1-gang back box
- Mounting in single frame or multi-frame
- Integrated electronics with 3-pole plug connection for the room bus (RAN)

Scope of supply

- Cancel switch insert
- Mounting plate
- Terminal block, 5-pole, black/yellow/red/light grey/ dark grey, plugged in
- Installation instructions

Technical data

Nominal voltage:	24 V DC
Standby current consumption:	8 mA
Degree of protection:	IP22
Dimensions (HxW):	71 x 71 mm
Installation depth:	24 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 95 %

Order number	Product name	Notes
29 0709 00RS	Cancel switch insert	Design Reflex SI
29 0709 00F	Cancel switch insert	Design future® linear
29 0709 00BS	Cancel switch insert	Design Busch-balance® SI
Order frame separately:		
29 9200 01RS	Frame-T RS, 1-gang	Design Reflex SI
29 9200 01F	Frame-T F, 1-gang	Design future® linear
29 9200 01BS	Frame-T BS, 1-gang	Design Busch-balance® SI
Necessary accessories, order separately:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9500 19	Terminal block, 5-pole, bk/ye/rd/gy/gy	

Pull cord switch insert

without frame

29 0707 20...

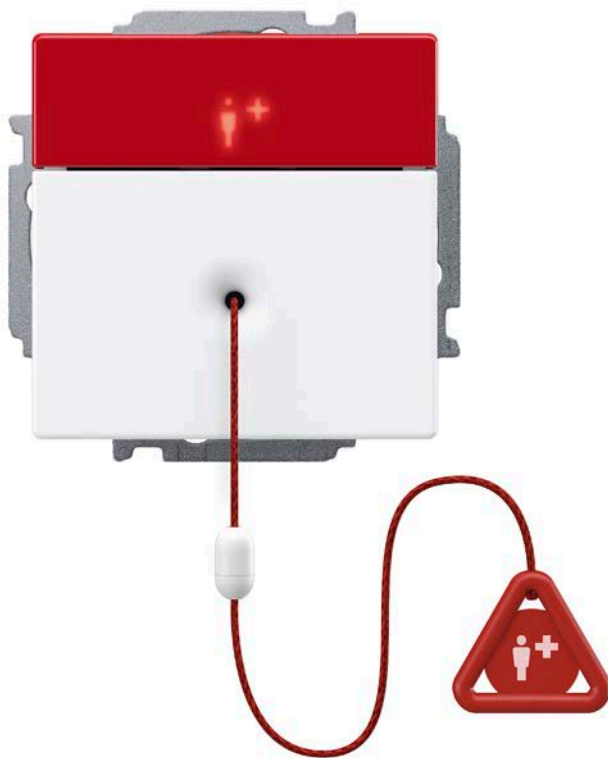


Figure shows order no. 29 0707 20F

General description

Switch insert with a pull cord at the end of which a call handle is attached, for triggering calls or WC calls by pull actuation. Another call option is a red call button with reassurance light.

Particularly suitable for triggering calls in the shower or next to the WC.

The reassurance light illuminates brightly as soon as a call is raised. If presence in the room is switched on when a call is raised, an emergency call is triggered.

Suitable for wall and ceiling mounting.

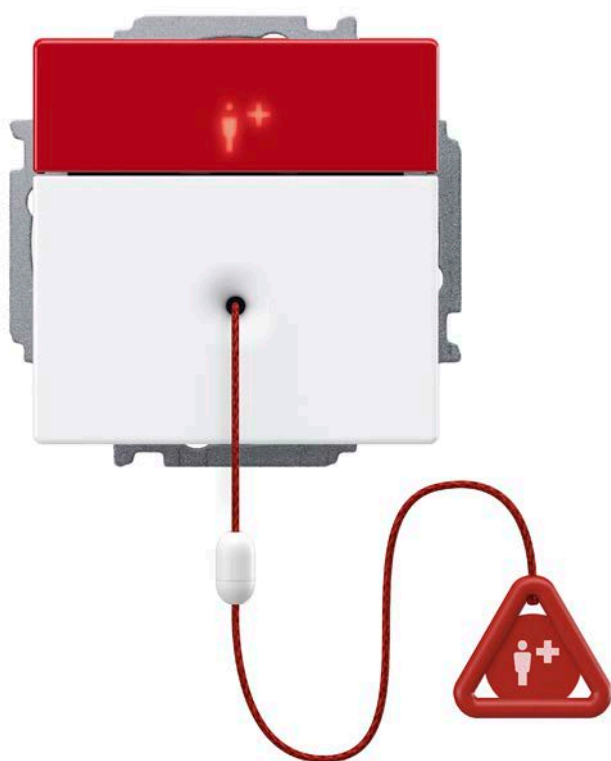
Specification

- 2.50 m long pull cord incl. call handle with symbol and safety release
- Safety release in the pull cord opens when the pull force exceeds a limit value (strangulation protection). The safety release is closed again by simply plugging it together.
- Red call button with reassurance light and integrated location light
- Acoustic feedback for call activation
- Usable for call (factory setting) or WC call
- Identifiable as part of nurse the call system through design features
- Easy plug-and-play mounting
- Wall mounting or ceiling mounting in 1-gang back box
- Mounting in single frame
- Integrated electronics with 3-pole plug connection for the room bus (RAN)

Pull cord switch insert

without frame

29 0707 20...



Scope of supply

- Pull cord switch insert
- Mounting plate
- Terminal block, 5-pole, black/yellow/red/light grey/dark grey, plugged in
- Installation instructions

Technical data

Nominal voltage:	24 V DC
Standby current consumption:	9 mA
Degree of protection:	IP22
Dimensions (HxW):	71 x 71 mm
Installation depth:	24 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 95 %

Figure shows order no. 29 0707 20F

Order number	Product name	Notes
29 0707 20RS	Pull cord switch insert	Design Reflex SI
29 0707 20F	Pull cord switch insert	Design future® linear
29 0707 20BS	Pull cord switch insert	Design Busch-balance® SI
Order frame separately:		
29 9200 01RS	Frame-T RS, 1-gang	Design Reflex SI
29 9200 01F	Frame-T F, 1-gang	Design future® linear
29 9200 01BS	Frame-T BS, 1-gang	Design Busch-balance® SI
Necessary accessories, order separately:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9500 19	Terminal block, 5-pole, bk/ye/rd/gy/gy	
77 9510 06	Pull cord incl. call handle, safety release	

Pneumatic switch insert

without frame

29 0707 50...



Figure shows order no. 29 0707 50F

General description

Switch insert with an air hose at the end of which a red rubber ball is attached, for triggering calls or WC calls by pressing the rubber ball. Another call option is a red call button with reassurance light.

Particularly suitable for triggering calls in the bathtub.

The reassurance light illuminates brightly as soon as a call is raised. If presence in the room is switched on when a call is raised, an emergency call is triggered.

Specification

- 2 m long air hose with red rubber ball
- Red call button with reassurance light and integrated location light
- Acoustic feedback for call activation
- Usable for call (factory setting) or WC call
- Identifiable as part of nurse the call system through design features
- Easy plug-and-play mounting
- Wall mounting in 1-gang back box
- Mounting in single frame or multi-frame
- Integrated electronics with 3-pole plug connection for the room bus (RAN)

Pneumatic switch insert

without frame

29 0707 50...



Scope of supply

- Pneumatic switch insert
- Mounting plate
- Terminal block, 5-pole, black/yellow/red/light grey/dark grey, plugged in
- Installation instructions

Technical data

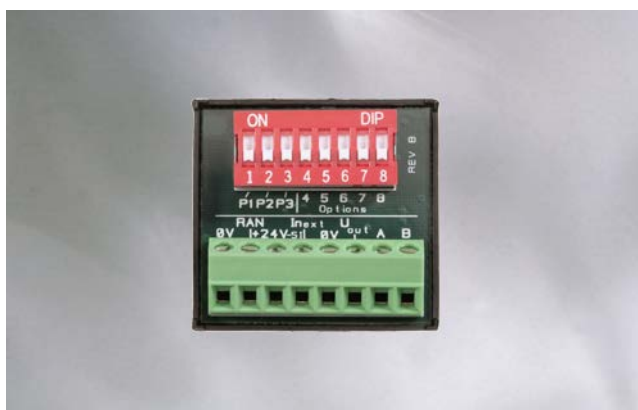
Nominal voltage:	24 V DC
Standby current consumption:	14 mA
Degree of protection:	IP22
Dimensions (HxW):	71 x 71 mm
Installation depth:	24 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 95 %

Figure shows order no. 29 0707 50F

Order number	Product name	Notes
29 0707 50RS	Pneumatic switch insert	Design Reflex SI
29 0707 50F	Pneumatic switch insert	Design future® linear
29 0707 50BS	Pneumatic switch insert	Design Busch-balance® SI
Order frame separately:		
29 9200 01RS	Frame-T RS, 1-gang	Design Reflex SI
29 9200 01F	Frame-T F, 1-gang	Design future® linear
29 9200 01BS	Frame-T BS, 1-gang	Design Busch-balance® SI
Necessary accessories, order separately:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9500 19	Terminal block, 5-pole, bk/ye/rd/gy/gy	

RAN interface

19 0840 00



General description

Interface for use in CONCENTO^{CARE} nurse call systems and in rooms with control module ZLB in CONCENTO^{PLUS} nurse call systems. The interface is used to connect an external trigger device (normally closed or normally open contact) to the room bus (RAN). The trigger device thus triggers a call in the nurse call system.

In addition, an LED of the trigger device can be connected to the RAN interface. The LED lights up as soon as the trigger unit is triggered (reassurance light).

Specification

- Normally closed / normally open contact can be connected.
- Use e.g. for room call, radio call, service call, technical call, door alarm, fire alarm, activity sensor for inactivity monitoring.
- Call cancellation automatically after resetting the call device or by cancellation in the nurse call system.
- Installation in 1-gang back box or top hat rail mounting.
- Top hat rail clip included in scope of delivery

Technical data

Dimensions (HxWxD):	32 x 34 x 16 mm
Nominal voltage:	24 V DC
Standby current consumption:	14 mA
Degree of protection:	IP22
Installation depth:	24 mm
Ambient temperature:	+5 °C – +40 °C
Relative humidity:	0 % – 95 %

Order number	Product name	Notes
19 0840 00	RAN interface	

3. Room lamps, corridor displays

Room lamp universal, 3 sections

77 0180 10



General description

Signal lamp with 3 light sections for optical signalling of all call types, staff presence, and for WC call as single display.

Suitable for wall mounting in corridors or rooms. Modular design with replaceable decorative frame.

Further designs available on request.

Compatible with CONCENTO^{CARE} and CONCENTO^{PLUS} system.

Specification

- 3 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent
- Design patent
- Easy plug-and-play mounting
- Connector not included with scope of delivery

Optical signalling

- LED red: Calls
- LED green: Presence
- LED white: WC call

Technical data

Dimensions (HxWxD):	110 x 150 x 40 mm
Colour:	Silver
Housing material:	ABS
Power supply:	24 V DC
Standby current consumption:	0 mA
Current consumption per light section:	30 mA

Order number	Product name	Notes
77 0180 10	Room lamp universal, 3 sections	
Necessary accessories, order separately:		
70 0807 07	Connector, 7-pole	
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
77 0190 00	LED module, rot	see appendix "Accessories"
77 0190 02	LED module, green	see appendix "Accessories"
77 0190 03	LED module, white	see appendix "Accessories"

Room lamp universal, 3 sections, with doorplate

77 0181 10



General description

Signal lamp with 3 light sections for optical signalling of all call types, staff presence, and for WC call as single display. Doorplate as label field for room designation.

Suitable for wall mounting in corridors or rooms. Modular design.

Further designs available on request.

Compatible with CONCENTO^{CARE} and CONCENTO^{PLUS} system.

Specification

- 3 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent
- Design patent
- Easy plug-and-play mounting
- Connector not included with scope of delivery

Optical signalling

- LED red: Calls
- LED green: Presence
- LED white: WC call

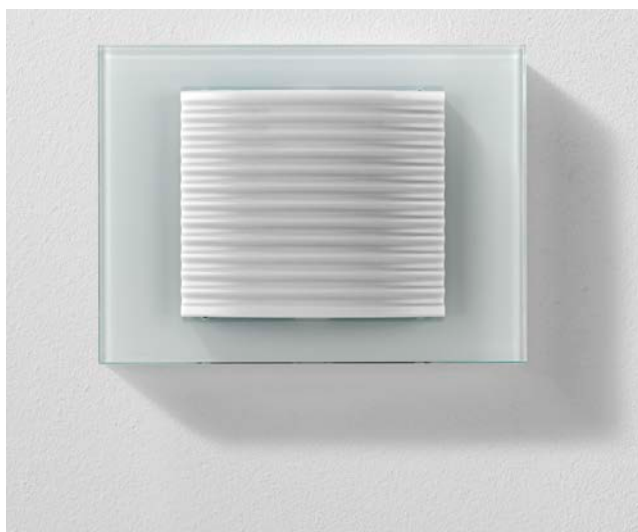
Technical data

Dimensions (HxWxD):	190 x 150 x 40 mm
Label field (HxW):	approx. 70 x 92 mm
Colour:	Silver
Housing material:	ABS
Power supply:	24 V DC
Standby current consumption:	0 mA
Current consumption per light section:	30 mA

Order number	Product name	Notes
77 0181 10	Room lamp universal, 3 sections, with doorplate	
Necessary accessories, order separately:		
70 0807 07	Connector, 7-pole	
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
77 0190 00	LED module, red	see appendix "Accessories"
77 0190 02	LED module, green	see appendix "Accessories"
77 0190 03	LED module, white	see appendix "Accessories"

Room lamp universal, 3 sections, glass decor

77 0185 10



General description

Signal lamp with 3 light sections for optical signalling of all call types, staff presence, and for WC call as single display.

Suitable for wall mounting in corridors or rooms. Modular design with glass decorative frame.

Further designs available on request.

Compatible with CONCENTO^{CARE} and CONCENTO^{PLUS} system.

Specification

- 3 light sections
- Energy-saving, long-life LED illuminants
- Pluggable LED modules for easy change and for free selection of signalling colours
- Utility patent
- Design patent
- Easy plug-and-play mounting
- Connector not included with scope of delivery

Optical signalling

- LED red: Calls
- LED green: Presence
- LED white: WC call

Technical data

- Dimensions (HxWxD): approx. 110 x 150 x 40 mm
- Housing material: ABS
- Power supply: 24 V DC
- Standby current consumption: 0 mA
- Current consumption per light section: 30 mA

Order number	Product name	Notes
77 0185 10	Room lamp universal, 3 sections, glass decor	
Necessary accessories, order separately:		
70 0807 07	Connector, 7-pole	
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
Spare parts, reorder if required:		
77 0190 00	LED module, red	see appendix "Accessories"
77 0190 02	LED module, green	see appendix "Accessories"
77 0190 03	LED module, white	see appendix "Accessories"

Corridor display, 16-digit

19 078x 16



General description

Display for alphanumeric display of calls and general system information in CONCENTO^{CARE} and CONCENTO^{PLUS} nurse call systems.

Designed for installation in corridors or staff rooms.
Direct connection to the ward bus.

Specification

- Display of call type and room number
- 16-digit text display, text height 50 mm
- Luminous colour: Red
- Extra-bright quality LEDs with ambient light dependent luminosity, automatic step-by-step adjustment
- Cable entry from above
- Connecting cable 4-pole, length: approx. 1.2 m
- Pre-set address can be changed via programming button
- Reverse polarity protection

- Overvoltage protection
- Single-sided version: "Keyholes" for wall mounting
- Double-sided version: Incl. ceiling suspension, 50 cm long, variable adjustment

Technical data

Dimensions (HxWxD)

- Single-sided display: 125 x 785 x 55 mm
- Double-sided display: 145 x 785 x 55 mm

Weight

- Single-sided display: approx. 1800 g
- Double-sided display: approx. 2500 g

Housing material: Aluminium, lacquered, with end caps made of ABS, lacquered

Front plate material: Acrylic glass

Colour: RAL 9003, signal white

Degree of protection: IP20

Power supply: 24 V DC

Current consumption on call

- Single-sided display: 300 mA
- Double-sided display: 350 mA

Ambient temperature: +5 °C – +40 °C

Relative humidity: 0 % – 85 % (non condensing)

Order number	Product name	Notes
19 0783 16	Corridor display, 16-digit	Single-sided version
19 0784 16	Corridor display, 16-digit, double-sided	Double-sided version
Optional accessories, order if required:		
19 0780 05	Extension set ceiling suspension 0.5 m	for double-sided version

Corridor display, 12-digit

29 078x 12



General description

Display for alphanumeric display of calls and general system information in CONCENTO^{CARE} nurse call systems.

Designed for installation in corridors or staff rooms.

Direct connection to the ward bus.

Specification

- Display of call type and room number
- 12-digit text display, text height 50 mm
- Luminous colour: Red
- Extra-bright quality LEDs with ambient light dependent luminosity, automatic step-by-step adjustment
- Cable entry from above
- Connecting cable 4-pole, length: approx. 1.2 m
- Pre-set address can be changed via programming button
- Reverse polarity protection

- Overvoltage protection
- Single-sided version: "Keyholes" for wall mounting
- Double-sided version: Incl. ceiling suspension, 50 cm long, variable adjustment

Technical data

Dimensions (HxWxD)

- Single-sided display: 125 x 604 x 55 mm
- Double-sided display: 145 x 604 x 55 mm

Weight

- Single-sided display: 1600 g
- Double-sided display: 1850 g

Housing material: Aluminium, lacquered, with end caps made of ABS, lacquered

Front plate material: Acrylic glass

Colour: RAL 9003, signal white

Degree of protection: IP20

Power supply: 24 V DC

Current consumption on call

- Single-sided display: 300 mA
- Double-sided display: 350 mA

Ambient temperature: +5 °C – +40 °C

Relative humidity: 0 % – 85 % (non condens.)

Order number	Product name	Notes
29 0783 12	Corridor display, 12-digit	Single-sided version
29 0784 12	Corridor display, 12-digit, double-sided	Double-sided version
Optional accessories, order if required:		
19 0780 05	Extension set ceiling suspension 0.5 m	for double-sided version

4. Plug-in call devices

Pear push switch

for connection to connection socket

29 0790 0x



General description

Pear push switch incl. call and light switch: Water-protected, for easy call triggering and for switching the reading light.

Pear push switch incl. call switch: Water-protected, for easy call triggering.

Specification

- Red call button with reassurance light and integrated location light as LED
- 3 tactile locating points on the call button
- Pear push switch incl. call and light switch only: Yellow light switch
- Clear labelling with symbols
- Disconnection monitoring
- Easy cleaning and disinfection due to water-protected, closed housing
- Protected against temporary immersion in water and dust tight (IP67)
- 3 m flexible connection cable with plug
- Plug-in connection to call switch insert with connector, order no. 29070400...

Technical data

Dimensions (HxWxD):	70 x 35 x 10 mm
Weight:	approx. 150 g
Material:	ABS
Colour:	white, similar to RAL 9010
Power supply:	24 V DC
Standby current consumption:	0.7 mA
Degree of protection:	IP67

Order number	Product name	Notes
29 0790 02	Pear push switch incl. call and light switch, 3 m	
29 0790 00	Pear push switch incl. call switch, 3 m	
Optional accessories, order if required:		
29 0790 06	Extension cable for pear push switch, 3 m	see appendix "Accessories"
29 0790 04	Self-releasing adapter for pear push switch, 20 cm	see appendix "Accessories"
70 0361 00	Equipment and cable clamp	see appendix "Accessories"

5. Radio based call devices

Radio receiver-T

for connection to connection socket

Z 00 8202 36



General description

Radio receiver on operating frequency 869.2125 MHz (social alarm frequency) for receiving the signals from associated radio transmitters.

Plug-in connection to a call switch insert with connector (order no. 29070400...). Activating the radio trigger generates the same call type that would be generated by a pear push switch connected to the same socket.

Note: The radio transmission is not monitored.

According to DIN VDE 0834, the transmitters may be used only as complementary call devices in combination with a nurse call system.

Specification

- Integrated antenna
- 64 radio transmitters programmable
- Master mode can be activated to receive any number of radio transmitters
- If the battery of the assigned radio trigger is low, the LED on the radio receiver is flashing red
- In the event of reception blockage, fault indication on the radio receiver and call initiation
- Care mode available, deactivates selected transmitters for a set time at the touch of a key
- Daily message monitoring available with MyAmie, iVi™ and universal sensor, corresponds to the auto presence feature of Telecare devices
- Vital monitoring available e.g. with radio sensor mat, corresponds to inactivity monitoring of Telecare devices
- Disconnection monitoring
- Radio range dependent on the spatial conditions, up to 30 m
- Short connection cable with plug, approx. 16 cm

Radio receiver-T

for connection to connection socket

Z 00 8202 36



Usable radio transmitters

- MyAmie (order no. P68007/02)
- iVi™ (order no. P68005/47)
- Universal sensor (order no. 61005/30)
- Large-surface pneumatic radio switch (Order no. Z00820215)
- Wireless sensor mat (order no. Z00800201)
- Wireless step-on sensor mat CM (order no. Z00800301)
- Wireless step-on sensor mat NM (order no. Z00800302)
- Optical 869 Smoke Alarm (order no. 68005/70)
- Heat Alarm 869 (order no. 68005/71)
- Further radio transmitters on request

Technical data

Dimensions (HxWxD):	66 x 46 x 18 mm
Weight:	approx. 50 g
Power supply:	24 V DC
Degree of protection:	IP20
Standby current consumption:	12 mA

Order number	Product name	Notes
Z 00 8202 36	Radio receiver-T	
Optional accessories, order if required		
Z 00 8202 21	Magnetic wall bracket	

Radio receiver-T UP

with free wire ends

Z 00 8202 35



General description

Radio receiver on operating frequency 869.2125 MHz (social alarm frequency) for receiving the signals from associated radio transmitters.

The radio receiver-T UP is intended for use in the nurse call systems Flamenco^{IP}, Flamenco, CONCENTO^{CARE}, and CONCENTO^{PLUS}.

Triggering the radio transmitters triggers a call or radio call, depending on the nurse call system and its configuration.

Note: The radio transmission is not monitored. According to DIN VDE 0834, the transmitters may be used only as complementary call devices in combination with a nurse call system.

Specification

- Flush mounting on 1-gang back box
- Potential-free connection as normally closed or normally open contact
- Integrated antenna
- 64 radio transmitters programmable
- Master mode can be activated to receive any number of radio transmitters
- If the battery of the assigned radio trigger is low, the LED on the radio receiver is flashing red
- In the event of reception blockage, fault indication on the radio receiver and call initiation
- Care mode available, deactivates selected transmitters for a set time at the touch of a key
- Daily message monitoring available with MyAmie, iViTM and universal sensor, corresponds to the auto presence feature of Telecare devices
- Vital monitoring available e.g. with radio sensor mat, corresponds to inactivity monitoring of Telecare devices
- Radio range dependent on the spatial conditions, up to 30 m
- Mounting plate included in scope of supply
- Frame with 55 mm internal dimension required, not included in scope of delivery.
- Connection to a RAN interface or a CONCENTO^{PLUS} room controller without RAN

Radio receiver-T UP

with free wire ends

Z 00 8202 35

- Page 2 -



Usable radio transmitters

- MyAmie (order no. P68007/02)
- iVi™ (order no. P68005/47)
- Universal sensor (order no. 61005/30)
- Large-surface pneumatic radio switch (Order no. Z00820215)
- Wireless sensor mat (order no. Z00800201)
- Wireless step-on sensor mat CM (order no. Z00800301)
- Wireless step-on sensor mat NM (order no. Z00800302)
- Optical 869 Smoke Alarm (order no. 68005/70)
- Heat Alarm 869 (order no. 68005/71)
- Further radio transmitters on request

Technical data

Dimensions (HxWxD):	55 x 55 x 10 mm
Weight:	approx. 50 g
Power supply:	24 V DC
Degree of protection:	IP20
Standby current consumption:	12 mA

Order number	Product name	Notes
Z 00 8202 35	Radio receiver-T UP	
Order frame separately:		
77 0210 56	Intermediate frame Busch-Jaeger future linear	Required for use with design future® linear
29 9200 01F	Frame-T F, 1-gang	Design future® linear
29 9200 12F	Frame-T F, 2-gang, h	Design future® linear, e.g. for installation with call switch insert with connector
29 9200 01BS	Frame-T BS, 1-gang	Design Busch-balance® SI
29 9200 12BS	Frame-T BS, 2-gang, h	Design Busch-balance® SI, e.g. for installation with call switch insert with connector
Necessary accessories, order separately:		
17 0100 00	Back box solid wall, 1-gang	see appendix "Accessories"
17 5100 00	Back box partition wall, 1-gang	see appendix "Accessories"
19 0840 00	RAN interface	for connection to the room bus RAN, see separate data sheet

MyAmie

for use with radio receiver-T and -T UP

P68007/02



General description

A small and waterproof personal radio trigger for wireless initiation of calls. It is light weight and provides different wearing options. A wrist strap and a neckcord are included with scope of delivery.

Specification

■ Use with the following Tunstall products:

- All radio receivers-T and -T UP
- All current home units
- CareAssist

In this data sheet only the use with the radio receiver T and -T UP is described.

■ Call button

- Control LED lights up red, if call button is pressed
- Neckcord
- Wrist strap, 20 mm wide
- Radio coverage in connection with radio receiver-T or -T UP depending on structural conditions of the building, up to 30 m
- Dust tight and protected against ingress of water when MyAmie is immersed in water under defined conditions of pressure and time (IP 67)
- Auto presence monitoring
- Lithium battery
- Prognosticated battery life: 7 years
- Control LED and automatic battery monitoring
- When used with radio receiver-T or -T UP: When the battery is low, the LED on the radio receiver flashes red
- Long-lasting material durability due to the high-performance plastic Hytrel®.

Technical data

Dimensions (HxWxD):	14 x 27 x 36 mm
Weight:	7 g
Housing material:	ABS
Call button material:	Hytrel®
Radio frequency:	869.2125 MHz
Ambient temperature:	
- Operation:	0 °C – 45 °C
- Storage:	-10 °C – 50 °C

Order number	Product name	Notes
P68007/02	MyAmie	
Use with radio receiver:		
Z 00 8202 36	Radio receiver-T	
Z 00 8202 35	Radio receiver-T UP	
Spare parts, order if required:		
D6702137	Neckcord MyAmie, white	Packaging unit 10 units
D6702145	Wrist strap (20 mm) MyAmie	Packaging unit 10 units

iVi™
for use with radio receiver-T and -T UP
P68005/47


General description

iVi™ is an intelligent personal radio trigger. A call button is used for manual triggering of calls. An integrated, intelligent fall detection technology automatically triggers calls in the event of a fall.

Before the iVi triggers a call in the event of a fall, it emits a tone sequence for 10 seconds and the control lamp lights green (pre-alarm). This allows the user to prevent a fall call by pressing the cancel button.

Specification

■ Use with the following Tunstall products:

- All radio receivers-T and -T UP
- All current home units
- CareAssist

In this data sheet only the use with the radio receiver T and -T UP is described.

- Integrated call button for manual triggering of a call
- Automatic call initiation in the event of a fall
- Dust tight and protected against ingress of water when MyAmie is immersed in water under defined conditions of pressure and time (IP 67)
- Auto presence monitoring
- Transport mode for storage and transport can be set to save battery capacity
- Sensitivity for falls adjustable
- Lithium battery (CR2450, 3 V) replaceable, service life approx. 9 to 12 months. Already installed when the iVi is delivered, but deactivated.
- Control indicator and automatic monitoring of the battery
- When used with radio receiver-T or -T UP: When the battery is low, the LED on the radio receiver flashes red
- Radio coverage in connection with radio receiver-T or -T UP depending on structural conditions of the building, up to 30 m
- Accessories: brooch clip, neckcord, belt clip

iVi™

for use with radio receiver-T and -T UP

P68005/47



Technical data

Dimensions (HxWxD):	58 x 38 x 14 mm
Weight iVi:	25 g
Radio frequency:	869.2125 MHz
Ambient Temperature	
- Operation:	0 °C – 45 °C
- Storage:	-10 °C – 50 °C

Order number	Product name	Notes
P68005/47	iVi™	
Use with radio receiver:		
Z 00 8202 36	Radio receiver-T	
Z 00 8202 35	Radio receiver-T UP	
Spare parts, order if required:		
D6602026	Belt clip iVi	Packaging unit 10 units
D6602027	Brooch clip iVi	Packaging unit 10 units
D6602044	Neckcord iVi	Packaging unit 10 units
D6602034	Cover for battery compartment iVi	Packaging unit 1 unit

Handheld transmitter, combi

for use with radio receiver-T and -T UP

Z 00 8202 41



General description

Handheld radio transmitter in watch form with wrist strap to wear on the wrist or with neck cord.

Use in conjunction with an associated radio receiver, e.g. radio receiver-T or radio receiver-T UP.

Specification

- Large membrane button, approx. 254 mm², for triggering calls
- LED for call and battery message
- "Low battery" detection with LED display and radio transmission
- LED trigger indicator lights up red when the red trigger button is pressed
- Typical battery life: 3 years with daily single use
- Radio frequency: 869.2125 MHz
- Wriststrap with Velcro fastener
- Neckcord
- Water proof (IP68)

Technical data

Dimensions (HxWxD): 46 x 43 x 10 mm
 Weight: approx. 25 g
 Power supply: 3,0 V button battery CR2032, replaceable

Order number	Product name	Notes
Z 00 8202 41	Handheld transmitter, combi	
Use with radio receiver:		
Z 00 8202 36	Radio receiver-T	
Z 00 8202 35	Radio receiver-T UP	

Universal sensor

for use with radio receiver-T and -T UP

61005/30



General description

Universal sensor for use with the following Tunstall products:

- All radio receivers-T and -T UP
- All current home units
- CareAssist

In this data sheet only the use with the radio receiver T and -T UP is described.

Forwarding of alarm messages from wired Telecare sensors to the nurse call system.

Basic properties

- Radio coverage in connection with radio receiver-T or -T UP depending on structural conditions of the building, up to 30 m
- Four buttons and LCD display for easy configuration
- Battery operation
- Estimated lifetime of the replaceable battery approx. 5 years under normal conditions.
- Indication when the Universal sensor battery is low: LED on the radio receiver-T or -T UP flashes red.

Forwarding of alarm messages from wired Telecare sensors to the nurse call system

- Normally closed or normally open contact (potential-free) can be connected
- Connection to the free cable ends of the 200 cm long connection cable with RJ11 plug. Optional connection to the 3.5 mm jack socket.
- The type of call displayed in the nurse call system depends on the setting of the nurse call system.

Technical data

Dimensions (HxWxD):	80 x 50 x 25 mm
Weight (incl. battery):	75 g
Connection cable:	approx. 200 cm
Battery type:	AA 3,6 V
Housing colour:	white
Radio frequency:	869.2125 MHz
Ambient temperature:	
- Operation	0 °C – 45 °C
- Storage, transport	-10 °C – 50 °C

Order number	Product name	Notes
61005/30	Universal sensor	
Use with radio receiver:		
Z 00 8202 36	Radio receiver-T	
Z 00 8202 35	Radio receiver-T UP	

Large-surface pneumatic radio switch

for use with radio receiver-T and -T UP

Z 00 8202 15



General description

Wireless large-surface pneumatic switch. Only a very slight actuation force is required in order to activate the switch. It is therefore very well suited when there are activation problems due to illness.

Specification

■ Use with the following Tunstall products:

- All radio receivers-T and -T UP
- All current home units
- CareAssist

In this data sheet only the use with the radio receiver T and -T UP is described.

■ Red triggering surface, round, Ø 90 mm

■ Optical reassurance indicator that lights up all around as well as vibration when the button is pressed.

■ Radio coverage in connection with radio receiver-T or -T UP depending on structural conditions of the building, up to 30 m

■ 3 V battery (CR2450), replaceable

■ Indication when the sensor mat battery is low: LED on the radio receiver-T or -T UP flashes red.

Technical data

Colour:	red
Dimensions (H x Ø):	40 x 110 mm
Weight:	200 g
Call button diameter:	90 mm
Radio frequency:	869.2125 MHz
Ambient temperature:	-10 °C – +55 °C

Order number	Product name	Notes
Z 00 8202 15	Large-surface pneumatic radio switch	
Use with radio receiver:		
Z 00 8202 36	Radio receiver-T	
Z 00 8202 35	Radio receiver-T UP	

Wireless sensor mat

for use with radio receiver-T and -T UP

Z 00 8002 01



General description

Large mat for triggering of calls by stepping on or pressing the mat.

Suitable for use in hospitals, care homes or similar establishments.

The mat is positioned e.g. by the bed. A call is raised when the patient gets out of bed or falls out of bed and onto the mat. The call is forwarded to the connected nurse call system or connected call device.

Specification

■ Use with the following Tunstall products:

- All radio receivers-T and -T UP
- All current home units
- CareAssist

In this data sheet only the use with the radio receiver T and -T UP is described.

■ Radio coverage in connection with radio receiver-T or -T UP depending on structural conditions of the building, up to 30 m

■ Large sensor area

■ Splash-proof

■ Soft PVC, easy to clean

■ Battery operation - no wiring

■ Indication when the sensor mat battery is low: LED on the radio receiver-T or -T UP flashes red.

Technical data

Colour:	ivory-coloured
Material:	PVC
Dimension (W x D):	1200 x 500 mm
Stepping area thickness:	4 mm
Radio frequency:	869.2125 MHz

Order number	Product name	Notes
Z 00 8002 01	Wireless sensor mat	
Use with radio receiver:		
Z 00 8202 36	Radio receiver-T	
Z 00 8202 35	Radio receiver-T UP	

Wireless step-on sensor mat

for use with radio receiver-T and -T UP

Z 00 8003 0x



Z 00 8003 01



Z 00 8003 02

General description

Robust, professional contact step-on sensor mat for the monitoring of person movements, also for dementia or vital detection.

Sturdy, step-, slip- and stumble-proof design with bevelled edges and easy to clean surface in nap struc-

ture.

The mat is positioned e.g. by the bed. A call is raised when the patient gets out of bed or falls out of bed and onto the mat. The call is forwarded to the connected nurse call system or connected call device.

Specification

■ Use with the following Tunstall products:

- All radio receivers-T and -T UP
- All current home units
- CareAssist

In this data sheet only the use with the radio receiver T and -T UP is described.

■ Radio coverage in connection with radio receiver-T or -T UP depending on structural conditions of the building, up to 30 m

■ Large sensor area

■ Splash-proof

■ Can be damp cleaned and disinfected

■ Battery operation - no wiring, CR2032, changeable

■ Indication when the sensor mat battery is low: LED on the radio receiver-T or -T UP flashes red.

Technical data

Colour:	Grey
Degree of protection:	IP54
Material:	Polyurethane (PU)
Power supply:	3.0 V DC
Dimensions (H x W x D):	9* x 1100 x 700 mm
* Height at transmitter module:	15 mm
Weight:	approx. 7500 g
Radio frequency:	869.2125 MHz

Order number	Product name	Notes
Z 00 8003 01	Wireless step-on sensor mat CM	rectangular shape
Z 00 8003 02	Wireless step-on sensor mat NM	semicircular shape
Use with radio receiver:		
Z 00 8202 36	Radio receiver-T	
Z 00 8202 35	Radio receiver-T UP	

Optical 869 Smoke Alarm

for use with radio receiver-T and -T UP

68005/70



- Regular self-tests of smoke detection. Errors are indicated by an alarm signal on the smoke detector (LED and signal tone).
- Radio coverage in connection with radio receiver-T or -T UP depending on structural conditions of the building, up to 30 m
- Battery operation - no wiring
- Built-in 3V lithium battery for 10 years long-term power supply
- When used with radio receiver T or T UP: If the battery is low, acoustic warning on the smoke alarm and the LED on the radio receiver flashes red.
- Easy press button for testing and mute
- Dismantling protection
- Accredited according to DIN EN 14604:2009

General description

Smoke alarm for wireless triggering of emergency calls in case of smoke development. Smoke detection is based on the scattered light principle. The smoke alarm transmits the smoke alarm by radio to the assigned emergency call device and emits an acoustic signal in parallel.

Specification

- Use with the following Tunstall products:

- All radio receivers-T and -T UP
- All current home units
- CareAssist

In this data sheet only the use with the radio receiver T and -T UP is described.

- Loud acoustic signal for smoke detection

Technical data

Dimensions (HxØ):	50 x 115 mm
Weight:	approx. 185 g
Housing material:	Polystyrene
Housing colour:	white
Signal tone:	>85 dB (A) at 3 meters
Maximum monitored area:	60 m²
Degree of protection:	IP20
Battery:	3 V lithium battery
Battery life:	10 years
Service life of the smoke alarm:	10 years
Radio frequency:	869.2125 MHz
Ambient temperature:	-10 °C bis +40 °C
Relative humidity:	15 % – 95 %, no condensation

Order number	Product name	Notes
68005/70	Optical 869 Smoke Alarm	
Use with radio receiver:		
Z 00 8202 36	Radio receiver-T	
Z 00 8202 35	Radio receiver-T UP	
Optional accessories, order if required:		
75 0870 40	Fixing kit (magnetic fixing)	for mounting without screws and bolts

Heat Alarm 869

for use with radio receiver-T and -T UP

68005/71



General description

Heat alarm for wireless triggering of calls as soon as the room temperature in the detection zone of the heat alarm has reached 58 °C. The heat alarm transmits the alarm by radio to the assigned radio receiver-T or -T UP and emits an acoustic signal in parallel.

Heat alarms are recommended for the installation in kitchens, boiler rooms, garages and other rooms, in which there is normally a high level of vapours, smoke and dust. In these rooms, smoke alarms are unsuitable because they would often trigger false alarms.

Specification

- Use with the following Tunstall products:
 - All radio receivers-T and -T UP
 - All current home units
 - CareAssist

In this data sheet only the use with the radio receiver T and -T UP is described.

- Loud acoustic signal for heat detection
- Radio coverage in connection with radio receiver-T or -T UP depending on structural conditions of the building, up to 30 m
- Battery operation - no wiring
- Built-in 9V lithium battery for 10 years long-term power supply
- When used with radio receiver T or T UP: If the battery is low, acoustic warning on the heat alarm and the LED on the radio receiver flashes red.
- Easy press button for testing and test alarm
- Dismantling protection

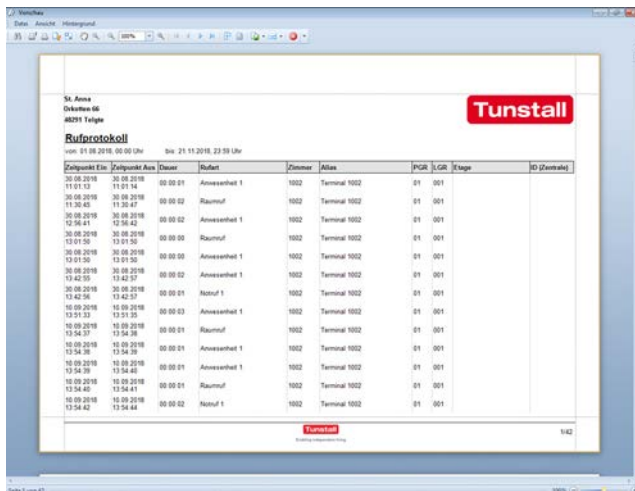
Technical data

Dimensions (HxØ):	55 x 115 mm
Weight:	200 g
Housing colour:	white
Sensor type:	fast-response temperature sensor (class A1)
Signal tone:	>85 dB (A) at 3 meters
Maximum monitored area:	60 m²
Degree of protection:	IP20
Battery:	9 V lithium battery
Battery life:	10 years
Radio frequency:	869.2125 MHz
Ambient temperature:	
- Operation:	0 °C bis +40 °C
- Storage:	-10 °C bis +60 °C
Relative humidity:	15 % – 95 %, no condensation

Order number	Product name	Notes
68005/71	Optical 869 Smoke Alarm	
Use with radio receiver:		
Z 00 8202 36	Radio receiver-T	
Z 00 8202 35	Radio receiver-T UP	

6. Software

29 0804 90



- Basic module, order no. 29080400
- "Call recording" module, order no. 29080410

- Basic module incl. dongle and product key
- The PC with ConLog^{CARE} Management Software is connected to the Management Interface or the system interface LAN of the nurse call system
- Graphic user interface
- User interface can be adapted to the user's needs
- Freely definable user management: Only the functions that the individual user group (e.g. system administrators, service technicians) need for their work are available to them
- Project-based data administration
- Automatic daily back-up of the database with time
- Online back-up possible
- Network-capable: Can be used as a stand-alone solution or allows networking of several PCs to form a client/server structure
- Incl. 1 year LiveUpdate (Internet access required), further to be ordered separately
- Optionally 15 additional workstations (clients) can be set up. Order separately.
- Optionally 14 additional projects can be set up. Order separately.
- Software in German and English
- Remote diagnosis of the ConLog^{CARE} Management Software via interface for remote maintenance, order no. 19800020, possible. Order separately.

ConLog^{CARE} Management Software

Basic module + call recording

29 0804 90

- Page 2 -

System configuration and programming

- Central configuration of the entire nurse call system
- Establishment of the logical structure of the nurse call system in wards, zones, and shifts
- Entry of ward and room names
- Programming of the Management Interface, the system interface LAN, the group controllers, and room controllers with the project-specific settings via the bus system through the Management Interface or the system interface LAN
- Firmware update of the Management Interface, group controllers, and room controllers
- Administration of the system interfaces for alarm servers / radio paging and telephony
- Administration of call forwarding to Telecare Monitoring Centres

Call recording module

The **call recording module** supplements the basic module of the ConLog^{CARE} Management Software by logging and evaluating all system events in CONCENTO^{CARE} nurse call systems.

Basic properties of the software

- Call recording module incl. product key
- The call recording module can only be installed if the basic module has already been installed.

Call logging and reporting

- Logging all events of the nurse call system with date time stamp
- Recording the raising of calls, call type, call location, call answering, acknowledgement, cancellation
- Distinguishing between remote cancellation and cancellation at call location
- Active alarm stack, status messages, event display
- SQL database format
- Simple and effective reporting
- Reports can be configured according to the parameters, e.g. according to call type, date, room number, floor
- Software in German and English

System requirements

Operating system:

- Microsoft® Windows® 10, 8, 7 (32 bit, 64 bit)

Minimum hardware requirements:

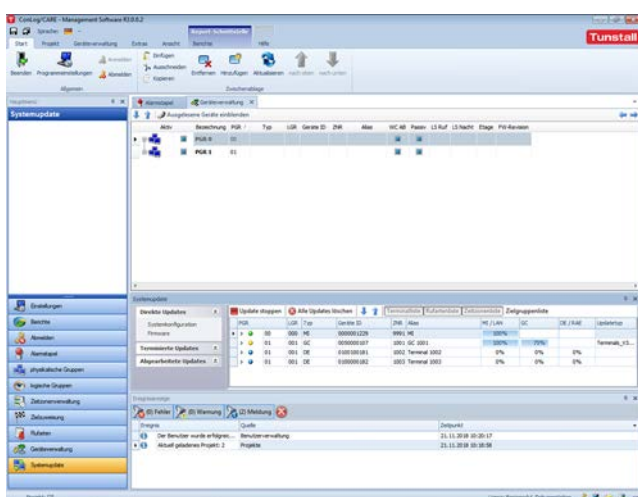
- 4 GB RAM
- 40 GB hard drive
- DVD drive
- Monitor (1280 x 1024 pixels)
- USB 2.0 or higher

Order number	Product name	Notes
29 0804 90	ConLog ^{CARE} Management Software Basic module + Call recording	
Necessary accessories, order separately:		
29 0700 00	Management Interface	see separate data sheet
19 0700 05	System interface LAN	see separate data sheet
00 0241 53	Patch cable CAT5, 5 m	see appendix "Accessories"
19 8000 00	Personal computer, German	see appendix "Accessories"
19 8001 00	Personal computer, English	see appendix "Accessories"
Spare parts, order if required:		
19 0804 60	ConLog dongle	

ConLog^{CARE} Basic module

for system configuration

29 0804 00



General description

The Basic module of the ConLog^{CARE} Management Software is used for central configuration and programming of CONCENTO^{CARE} nurse call systems.

Basic properties of the software

- Basic module incl. dongle and product key
- The PC with ConLog^{CARE} Management Software is connected to the Management Interface or the system interface LAN of the nurse call system
- Freely definable user management: Only the functions that the individual user group (e.g. system administrators, service technicians) need for their work are available to them
- Project-based data administration
- Automatic daily back-up of the database with time
- Online back-up possible
- Network-capable: Can be used as a stand-alone solution or allows networking of several PCs to form a client/server structure
- Incl. 1 year LiveUpdate (Internet access required), further to be ordered separately
- Optionally call recording module for logging and evaluation of all system events. Order separately.

- Optionally 15 additional workstations (clients) can be set up. Order separately.
- Optionally 14 additional projects can be set up. Order separately.
- Software in German and English
- Remote diagnosis of the ConLog^{CARE} Management Software via interface for remote maintenance, order no. 19800020, possible. Order separately.

System configuration and programming

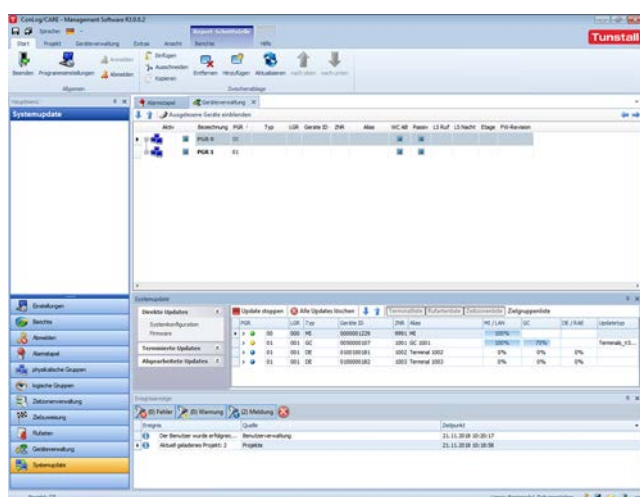
- Central configuration of the entire nurse call system
- Establishment of the logical structure of the nurse call system in wards, zones, and shifts
- Entry of ward and room names
- Programming of the Management Interface, the system interface LAN, the group controllers, and room controllers with the project-specific settings via the bus system through the Management Interface or the system interface LAN
- Firmware updates of the Management Interface, group controllers and room controllers
- Administration of the system interfaces for alarm servers / radio paging and telephony
- Administration of call forwarding to Telecare monitoring centres

ConLog^{CARE} Basic module

for system configuration

29 0804 00

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System requirements

Operating system:

- Microsoft Windows® 10, 8, 7 (32 bit, 64 bit)

Minimum hardware requirements:

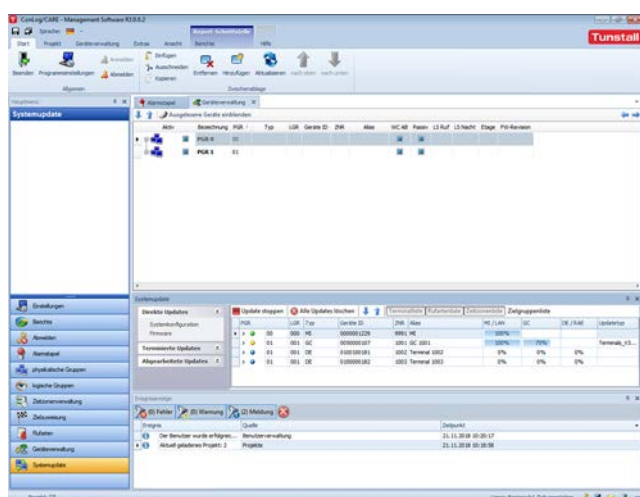
- 4 GB RAM
- 40 GB hard drive
- DVD drive
- Monitor
- USB 2.0 or higher

Order number	Product name	Notes
29 0804 00	ConLog ^{CARE} Basic module	
Necessary accessories, order separately:		
29 0700 00	Management Interface	see separate data sheet
19 0700 05	System interface LAN	see separate data sheet
00 0241 53	Patch cable CAT5, 5 m	see appendix "Accessories"
19 8000 00	Personal computer, German	see appendix "Accessories"
19 8001 00	Personal computer, English	see appendix "Accessories"
Spare parts, order if required:		
19 0804 60	ConLog dongle	

ConLog^{CARE} "Client" module

for an additional workstation

29 0804 05



General description

The Client module extends the basic module of the ConLog^{CARE} management software by an additional workstation.

Basic properties of the software

- 1 Client module incl. product key
- Connection of the PC with ConLog^{CARE} Management Software client module to the PC with ConLog^{CARE} Management Software basic module in a client/server structure
- Graphic user interface
- Maximum 15 „Client“ can be used with one basic module
- Software in German and English

System configuration and programming

- Central configuration of the entire nurse call system
- Establishment of the logical structure of the nurse call system in wards, zones, and shifts
- Entry of ward and room names
- Programming of the Management Interface, the system interface LAN, the group controllers, and room controllers with the project-specific settings via the bus system through the Management Interface or the system interface LAN
- Firmware updates of the Management Interface, group controllers and room controllers
- Administration of the system interfaces for radio paging and telephony
- Administration of call forwarding to Telecare monitoring centres

System requirements

Operating system:

- Microsoft® Windows® 10, 8, 7 (32 bit, 64 bit)

Software:

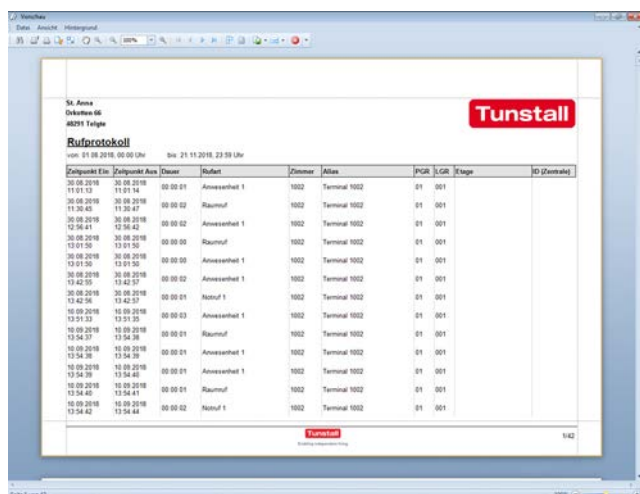
- ConLog^{CARE} Management Software, Basic module

Minimum hardware requirements:

- 4 GB RAM
- 40 GB hard drive
- DVD drive
- Monitor (1280 x 1024 pixels)
- USB 2.0 or higher

Order number	Product name	Notes
29 0804 05	ConLog ^{CARE} "Client" module	
Necessary accessories, order separately:		
29 0804 00	ConLog ^{CARE} Basic module	see separate data sheet
19 8000 00	Personal computer, German	see appendix "Accessories"
19 8001 00	Personal computer, English	see appendix "Accessories"

29 0804 10



ConLog^{CARE} "LiveUpdate" module

for one additional year LiveUpdate

29 0804 20

General description

The LiveUpdate module extends the basic module of the ConLog^{CARE} Management Software by another year of LiveUpdate.

Note: Several "LiveUpdate" modules can be activated directly one after the other, e.g. to get 5 years update access directly. For this the corresponding number of modules "LiveUpdate" must be ordered.

Basic properties of the software

- LiveUpdate module incl. product key
- The module can only be installed if the basic module has already been installed.
- Via the LiveUpdate all ConLog^{CARE} modules installed on the PC as well as available firmware versions can be updated.
- Internet access and the dongle of the basic module are required for this
- Software in German and English

System requirements

Operating system:

- Microsoft® Windows® 10, 8, 7 (32 bit, 64 bit)

Software:

- Dongle of the ConLog^{CARE} Management Software basic module

Minimum hardware requirements:

- 4 GB RAM
- 40 GB hard drive
- DVD drive
- Monitor (1280 x 1024 pixels)
- USB 2.0 or higher

Order number	Product name	Notes
29 0804 20	ConLog ^{CARE} "LiveUpdate" module	
Necessary accessories, order separately:		
29 0804 00	ConLog ^{CARE} Basic module	see separate data sheet

ConLog^{CARE} "Additional project" module

for connection of additional nurse call systems

29 0804 30

General description

The additional project module extends the basic module of the ConLog^{CARE} Management Software by the connection of an additional CONCENTO^{CARE} nurse call system.

Basic properties of the software

- Additional project module incl. product key
- The module can only be installed if the basic module has already been installed.
- Up to 14 additional projects can be set up
- Software in German and English

System requirements

Operating system:

- Microsoft® Windows® 10, 8, 7 (32 bit, 64 bit)

Software:

- ConLog^{CARE} Management Software, Basic module

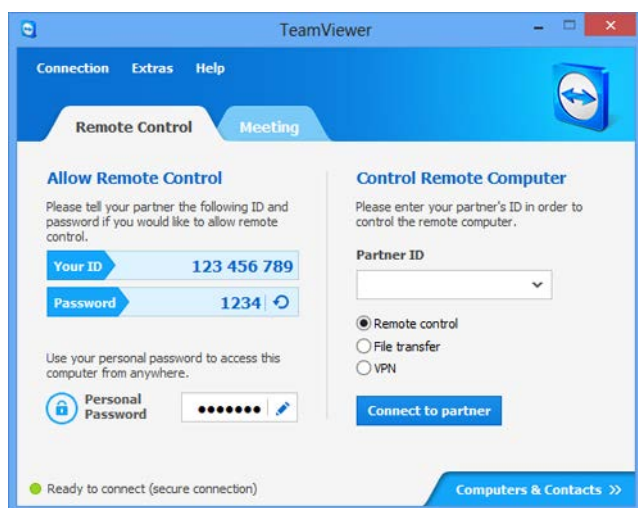
Minimum hardware requirements:

- 4 GB RAM
- 40 GB hard drive
- DVD drive
- Monitor (1280 x 1024 pixels)
- USB 2.0 or higher

Order number	Product name	Notes
29 0804 30	ConLog ^{CARE} "Additional project" module	
Necessary accessories, order separately:		
29 0804 00	ConLog ^{CARE} Basic module	

Interface for remote maintenance

19 8000 20



General description

Service for remote control of the computer to diagnose errors, install updates or provide support during operation.

A Tunstall GmbH system technician accesses the PC for this purpose. Reliable security functions protect against unauthorized access.

Performance features

- Efficient troubleshooting on remote systems
- File transfer in the background
- Encryption of data traffic as for home banking sessions using RSA 1024-bit (asymmetric encryption and session encoding via AES 256-bit)
- Command prompt, task manager, services and regedit can be started directly from the user interface

System requirements (not included)

Operating system:

- Microsoft® Windows® 7, 8, 10 (all 32 bit, 64 bit)

Network:

- Internet connection

Hardware:

- 1 GHz processor
- 1 GB RAM
- DVD drive
- USB connection

Order number	Product name	Notes
19 8000 20	Interface for remote maintenance	

7. System control

Management Interface

e.g. to alarm/pager server, PBX, PC

29 0700 00



General description

Interface for CONCENTO^{CARE} nurse call systems for the transmission of call and system messages, voice messages and connections for speech communication via telephone systems. Additional interfaces are available for system administration and for transferring logging data.

Performance features

- Convenient programming with ConLog^{CARE} Management Software
- Extensive configuration possibilities of the various interfaces and system parameters
- Connection to telephone systems (analogue a/b)
- Connection to alarm server/radio paging system
- Call forwarding to Telecare monitoring centres (PNC)
- Fixed-phrase voice messages for call type and call location (ward and room number) as well as to support operation
- Intelligent status displays: Data bus, ConLog^{CARE} connection, ESPA 4.4.4 and telephone connection
- Information display: Date, time, IP address, ID

Interfaces

- IP interface to PC with ConLog^{CARE} Management Software via LAN for configuration and logging, RJ45
- RS232, interface, ESPA 4.4.4 protocol
- RJ45, connection prepared for VoIP and ESPA-X protocol up to 100 MBit/s
- RJ11, telephone connection
- USB connection, prepared for future applications
- Interface to group bus
- Fault message output, potential free (NO/NC), configurable
- Bus connection and power supply connection short-circuit-proof and overload-proof, reverse polarity protected

Equipment

- Console housing for wall mounting with detachable control unit and separate connection unit
- Membrane keypad with 16 function keys
- Colour TFT display with 320x240 characters, 3.5 inch, backlit
- SDHC memory card (4 GB) for data storage
- Real-time clock, lithium battery CR2032, replaceable
- Wall mounting via one-gang back box or cable duct

Management Interface

e.g. to alarm/pager server, PBX, PC

29 0700 00

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Scope of supply

- Management Interface
- Installation instructions

Technical data

Dimensions (HxWxD):	135 x 190 x 90 mm
Weight:	approx. 640 g
Housing material:	ABS
Colour:	RAL 9002 grey white
Power supply:	24 V DC
Standby current consumption:	240 mA

Order number	Product name	Notes
29 0700 00	Management Interface	

System interface LAN

e.g. to alarm/pager server, PC

19 0700 05



General description

The system interface LAN provides interfaces to the ConLog^{CARE} or ConLog^{PLUS} Management Software for configuration and logging, to a DECT system or alarm server/radio paging system for transmission of call and system messages as well as to fault signalling devices. The system interface LAN is connected to the group bus of a CONCENTO^{CARE} or CONCENTO^{PLUS} nurse call system.

Can be used in CONCENTO^{PLUS} nurse call systems from ConLog^{PLUS} revision 1.1.3x onwards.

Interfaces

- IP interface to PC with ConLog^{CARE} or ConLog^{PLUS} Management Software via LAN for configuration and logging, RJ45
- RS232 interface to DECT system or alarm server/ radio paging system (ESPA 4.4.4) for transmission of call and system messages
- Socket for ESPA 4.4.4: Sub-D, 9-pin, maximum cable length: 10 m
- Interface to fault signalling devices (fault message relay output)

- Fault message relay: Potential-free change-over contact. Switching capacity: 2 A. Switches permanently in the event of a fault on the group bus or on the system interface LAN, conductor cross-section: max. 1.5 mm².

Functions

- Integrated web interface for configuration and status display of the interfaces via web browser
- Logging of system events with date and time via ConLog^{CARE} or ConLog^{PLUS} Management Software
- Mounting on 35 mm top hat rail
- Real-time clock, lithium battery CR2032
- Convenient programming with ConLog^{CARE} or ConLog^{PLUS} Management Software
- LED status indicators: Group bus (data), ConLog^{CARE} or ConLog^{PLUS} connection, ESPA 4.4.4, fault messages
- Bus connection and power supply connection short-circuit-proof and overload-proof, reverse polarity protected

Scope of supply

- System interface LAN
- Connector, 4-pole
- Connector, 12-pole
- Installation instructions

Technical data

Dimensions (HxWxD):	90 x 160 x 58 mm
Housing material:	Polycarbonate
Power supply:	24 V DC
Standby current consumption:	150 mA

Order number	Product name	Notes
19 0700 05	System interface LAN	
Spare parts, reorder if required:		
19 9100 04	Connector, 4-pole	
19 9100 12	Connector, 12-pole	

Group controller

for max. 40 ward bus users

29 0700 10



General description

The group controller monitors and controls the complete data traffic as well as the speech communication of all bus users on a ward bus.

The group controller is the control unit within the decentralized system structure of the CONCENTO^{CARE} system.

All group controllers are interconnected via the group bus. The group bus is controlled by all connected group controllers according to the master-slave method.

The Group controller is intended for wall mounting in floor distributors or installation rooms.

Specification

- Control of the ward bus
- Control of functions between wards such as group coupling, shift operation, speech connection between wards, higher-level calls (e.g. alarm call)
- Master-slave method on the group bus
- Display of the master-slave status
- Up to 40 users per group bus
- Up to 40 users per ward bus
- Up to 128 logical groups per system
- Fault indication for the Group controller
- Fault indication for the group bus
- Fault indication for the ward bus
- Key for displaying active messages (calls, presences, faults) on the ward bus
- 2-line display, 8-digit, with back-light for status display: time, shift and number of messages in the system
- 3 keys for operating the display menu
- Output to group lamp, 24 V / 300 mA
- Output to fault lamp, 24 V / 300 mA
- Output to fault message relay (NO/NC), potential free
- Input for mains power failure message (24 V DC), preferably in conjunction with Power supply unit 6A UPS, order no. 77340060.
- All inputs and outputs short-circuit and overload proof, reverse polarity protected
- Stand-alone operation without group bus possible
- Service interface
- Group controller can be programmed and configured during operation

Group controller

for max. 40 ward bus users

29 0700 10

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Scope of supply

- Group controller
- Connector, 4-pole
- Connector, 10-pole
- Connector, 12-pole
- Mounting plate

Technical data

Dimensions incl. mounting plate (HxWxD):	190 x 102 x 50 mm
Weight:	approx. 295 g
Housing material:	ABS
Colour:	alpine white, similar to RAL 9010
Power supply:	24 V DC
Standby current consumption:	approx. 60 mA

Order number	Product name	Notes
29 0700 10	Group controller	
Necessary accessories, order separately:		
17 0410 00	Back box partition wall, 2-gang	see appendix "Accessories"
17 5400 00	Back box solid wall, 2-gang	see appendix "Accessories"
Spare parts, reorder if required:		
19 9100 04	Connector, 4-pole	
19 9100 10	Connector, 10-pole	
19 9100 12	Connector, 12-pole	

Fire alarm interface

for coupling of alarms from FAS

19 0800 84



General description

Fire alarm interface for connecting a fire alarm system (FAS) via ESPA protocol 4.4.4 to a CONCENTO^{CARE} or CONCENTO^{PLUS} nurse call system. The fire alarm interface is connected via the data protocol for the fire brigade display panel FAT 2002 of the manufacturer IFAM.

Notes: This system does not replace the alarming of a fire alarm system according to DIN VDE 0833.

Specification

- Programming via supplied "BMA-IConfig" software tool
- Status LED for group bus and power supply on the circuit board
- Coupling of alarms for display in the nurse call system depending on the system programming: Logical group and room number or free text
- Connection to group bus
- RS232, interface to fire alarm system

Technical data

Dimensions (HxWxD):	190 x 116 x 63 mm
Weight:	322 g
Housing material:	Plastic
Power supply:	24 V DC
Standby current consumption:	40 mA

Order number	Product name	Notes
19 0800 84	Fire alarm interface	

8. Power supply units

Power supply unit 6A UPS

77 3400 60



General description

Power supply unit for supplying the nurse call system with safety extra-low voltage (SELV), compliant with EN 62368-1. The number of rooms, that can be connected, is project specific. Integrated batteries for uninterruptible operation with approx. 36 minutes backup power supply.

Wide range input for international use. Short-circuit and overload protected.

Control LEDs and contact outputs for transmission of status information: operation, battery operation, battery low, fault message.

Closed housing in protection class I.

Designed for wall mounting in rooms.

Technical data

Input

Nominal voltage: 115 – 230 V AC
Nominal voltage range: 90 – 264 V AC
Input frequency: 47 – 63 Hz

Output

Nominal current: 6 A DC
Output voltage in mains operation: 24 V DC +/- 3%
Output voltage in battery operation: typ. 27 – 20 V DC
Rated output power: 144 W
Battery capacity: 7 Ah
Charging current: typical 600 mA, temperature-dependent

Bridging time for nominal current: approx. 36 minutes

Approvals

Safety: EN 62368-1, SELV
EMC, CE-certified: EN 55022; EN 61000-3-2, -3; EN 61000-4-2, -3, -4, -5, -6, -11

Testing voltage
PRI – SEC: 4 kV (Certified according to 2x MOPP, 60601-1, 3rd)

Protection class: Class I
Degree of protection: IP20

Connections

Mains input: direct mains connection via internal screw type terminal
Outputs: plug-in screw type terminals

General

Permissible ambient temperature:
- in operation: 0 ... +40 °C
- storage/transport: -25 ... +40 °C
Weight: 7.6 kg
Dimensions (HxWxD): 244 x 325 x 178 mm
Colour: RAL 7035 light grey

Power supply unit 6A UPS

77 3400 60

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Order number	Product name	Notes
77 3400 60	Power supply UPS 6A	
Spare parts, reorder if required:		
00 0648 85	Battery set	
00 0211 40	Plug-in screw-type terminal, 3-pole	for mains connection
00 0211 41	Plug-in screw-type terminal, 4-pole	for 24 V connection
00 0211 39	Plug-in screw-type terminal, 7-pole	for signalling outputs
00 0130 41	Fuse (20 x 5) T 5A	mains fuse F1
00 0130 29	Fuse FKS 10A	output fuse F2
00 0132 02	Fuse FKS 15A	internal battery fuse
00 0223 56	Insertion bridge	for the control terminals

Power supply unit 6A

77 3401 60



General description

Power supply unit for supplying the nurse call system with safety extra-low voltage (SELV), compliant with EN 62368-1. The number of rooms, that can be connected, is project specific.

Wide range input for international use. Short-circuit and overload protected.

Control LEDs and contact output for transmission of the active operation status.

Closed housing in protection class I.

Designed for wall mounting in rooms.

Technical data

Input

Nominal voltage: 115 – 230 V AC
Nominal voltage range: 90 – 264 V AC
Input frequency: 47 – 63 Hz

Output

Nominal current: 6 A DC
Output voltage: 24 V DC +/- 3%
Rated output power: 144 W

Approvals

Safety: EN 62368-1, SELV
EMC, CE-certified: EN 55022; EN 61000-3-2, -3; EN 61000-4-2, -3, -4, -5, -6, -11

Testing voltage

PRI – SEC: 4 kV (Certified according to 2x MOPP, 60601-1, 3rd)

Protection class: Class I

Degree of protection: IP20

Connections

Mains input: direct mains connection via internal screw type terminal
Outputs: plug-in screw type terminals

General

Permissible ambient temperature:

- in operations: 0 ... +40 °C

- storage/transport: -25 ... +40 °C





Weight: 2.5 kg





Dimensions (HxWxD): 244 x 325 x 178 mm

Colour: RAL 7035 light grey





Order number	Product name	Notes
77 3401 60	Power supply unit 6A	
Spare parts, reorder if required:		
00 0211 40	Plug-in screw-type terminal, 3-pole	for mains connection
00 0211 41	Plug-in screw-type terminal, 4-pole	for 24 V connection
00 0211 39	Plug-in screw-type terminal, 7-pole	for signalling outputs
00 0130 41	Fuse (20 x 5) T 5A	mains fuse F1
00 0130 29	Fuse FKS 10A	output fuse F2

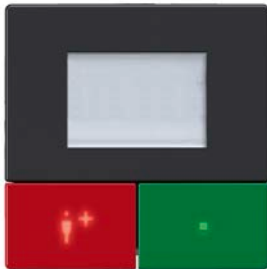



Appendix: Accessories




Specification	Order no.	
Frames and surface mounting boxes		
Frame-T RS, 1-gang <ul style="list-style-type: none"> ■ Design Reflex SI ■ Colour: Alpine white <i>Dimensions (HxWxD): 81 x 81 x 11 mm</i>	29 9200 01RS	
Frame-T RS, 2-gang, v <ul style="list-style-type: none"> ■ Design Reflex SI ■ Colour: Alpine white ■ Vertical mounting <i>Dimensions (HxWxD): 152 x 81 x 11 mm</i>	29 9200 02RS	
Frame-T RS, 2-gang, h <ul style="list-style-type: none"> ■ Design Reflex SI ■ Colour: Alpine white ■ Horizontal mounting <i>Dimensions (HxWxD): 81 x 152 x 11 mm</i>	29 9200 12RS	
Surface mounting box, 1-gang, for frame RS <ul style="list-style-type: none"> ■ Design Reflex SI ■ Colour: Alpine white <i>Dimensions (HxWxD): 80 x 80 x 42 mm</i>	29 9201 01RS	


Specification	Order no.	
Surface mounting box, 2-gang, for frame RS <ul style="list-style-type: none"> ■ Design Reflex SI ■ Colour: Alpine white <i>Dimensions (HxWxD): 152 x 80 x 42 mm</i>	29 9201 02RS	
Frame-T F, 1-gang <ul style="list-style-type: none"> ■ Design future® linear ■ Colour: Studio white <i>Dimensions (HxWxD): 80 x 80 x 11 mm</i> <p>future® linear is a registered trademark of Busch-Jaeger Elektro GmbH</p>	29 9200 01F	
Frame-T F, 2-gang, v <ul style="list-style-type: none"> ■ Design future® linear ■ Colour: Studio white ■ Vertical mounting <i>Dimensions (HxWxD): 151 x 80 x 11 mm</i> <p>future® linear is a registered trademark of Busch-Jaeger Elektro GmbH</p>	29 9200 02F	
Frame-T F, 2-gang, h <ul style="list-style-type: none"> ■ Design future® linear ■ Colour: Studio white ■ Horizontal mounting <i>Dimensions (HxWxD): 80 x 151 x 11 mm</i> <p>future® linear is a registered trademark of Busch-Jaeger Elektro GmbH</p>	29 9200 12F	

Specification	Order no.	
<p>Surface mounting box, 1-gang, for frame F</p> <ul style="list-style-type: none"> ■ Design future® linear ■ Colour: Studio white <p><i>Dimensions (HxWxD): 80 x 80 x 42 mm</i></p> <p>future® linear is a registered trademark of Busch-Jaeger Elektro GmbH</p>	77 0210 55	
<p>Surface mounting box, 2-gang, for frame F</p> <ul style="list-style-type: none"> ■ Design future® linear ■ Colour: Studio white <p><i>Dimensions (HxWxD): 151 x 80 x 42 mm</i></p> <p>future® linear is a registered trademark of Busch-Jaeger Elektro GmbH</p>	77 0210 61	
<p>Intermediate frame Busch-Jaeger future linear</p> <p>to using a frame future linear with a central plate 55 x 55 mm, e.g. for radio receiver-T UP.</p> <ul style="list-style-type: none"> ■ Outer dimensions: 63 x 63 mm ■ Inner dimensions: 56 x 56 mm ■ Design future® linear ■ Colour: Studio white <p>future® linear is a registered trademark of Busch-Jaeger Elektro GmbH</p>	77 0210 56	
<p>Frame-T BS, 1-gang</p> <ul style="list-style-type: none"> ■ Design Busch-balance® SI ■ Colour: Alpine white <p><i>Dimensions (HxWxD): 81 x 81 x 12 mm</i></p> <p><i>Busch-balance® SI is a registered trademark of Busch-Jaeger Elektro GmbH</i></p>	29 9200 01BS	




Specification	Order no.	
Frame-T BS, 2-gang, v <ul style="list-style-type: none"> ■ Design Busch-balance® SI ■ Colour: Alpine white ■ Vertical mounting <p><i>Dimensions (HxWxD): 152 x 81 x 12 mm</i></p> <p><i>Busch-balance® SI is a registered trademark of Busch-Jaeger Elektro GmbH</i></p>	29 9200 02BS	
Frame-T BS, 2-gang, h <ul style="list-style-type: none"> ■ Design Busch-balance® SI ■ Colour: Alpine white ■ Horizontal mounting <p><i>Dimensions (HxWxD): 81 x 152 x 12 mm</i></p> <p><i>Busch-balance® SI is a registered trademark of Busch-Jaeger Elektro GmbH</i></p>	29 9200 12BS	
Surface mounting box, 1-gang, for frame BS <ul style="list-style-type: none"> ■ Design Busch-balance® SI ■ Colour: Alpine white <p><i>Dimensions (HxWxD): 80 x 80 x 42 mm</i></p> <p><i>Busch-balance® SI is a registered trademark of Busch-Jaeger Elektro GmbH</i></p>	29 9201 01BS	
Surface mounting box, 2-gang, for frame BS <ul style="list-style-type: none"> ■ Design Busch-balance® SI ■ Colour: Alpine white <p><i>Dimensions (HxWxD): 151 x 80 x 42 mm</i></p> <p><i>Busch-balance® SI is a registered trademark of Busch-Jaeger Elektro GmbH</i></p>	29 9201 02BS	




Specification	Order no.	
Accessories for call/presence insert		
Room programming interface Programming module including two buttons an a display for configuring call/presence inserts, order no. 29070100... One room programming interface is required per nurse call system.	29 0701 80...	 29 0701 80F
Design Reflex SI	29 0701 80RS	
Design future® linear	29 0701 80F	
Design Busch-balance® SI	29 0701 80BS	
Accessories for room lamps		
Connector, 7-pole <i>e.g. for room lamps universal</i> Plug-in screw clamp e.g. for the connection of room lamps universal. ■ Plug-in screw connection up to 1.5 mm² ■ Distort protection <i>Dimensions (HxWxD): 10 x 28 x 15 mm</i>	70 0807 07	
Surface mounting frame <i>for room lamps 77... and 78...</i> ■ Material: ABS <i>Dimensions (HxWxD): 80 x 86 x 21 mm</i>	00 0281 26	
Doorplate universal Doorplate without light sections, universally applicable. Suitable for wall mounting in corridors or rooms. ■ Label easy to change <i>Dimensions (HxWxD): 190 x 150 x 40 mm</i> <i>Label field (HxB): approx. 70 x 92 mm</i>	77 0189 00	




Specification	Order no.	
Accessories for corridor displays		
Extension set ceiling suspension 0.5 m <i>for corridor displays 19078416, 29078412</i> For extending the ceiling suspension by 50 cm. <ul style="list-style-type: none"> ■ 2 rope connectors, on both sides with wire rope holder for rope diameter 1.0 to 1.5 mm ■ 2 extension ropes, 50 cm 	19 0780 05	
Accessories for pear push switch, order no. 29 0790 0x		
Extension cable for pear push switch, 3 m 3 m extension cable for a pear push switch or 29079000. <ul style="list-style-type: none"> ■ Length: 3 m 	29 0790 06	
Self-releasing adapter for pear push switch The self-releasing adapter is inserted between the plug of the pear push switch 29079002 or 29079000 and the connection socket. The connection is automatically disconnected when pulled and thus protected against damage. <ul style="list-style-type: none"> ■ Length: approx. 20 cm 	29 0790 04	




Specification	Order no.
<p>Equipment and cable clamp <i>Packing unit = 10 pieces</i></p> <p>Practical protection for all patient units. Cables and equipment are safely guided along the bed supporting rod or the "bed gallows".</p> <p>No more damage from the patient's attempt to pull himself up on expensive technical equipment: The equipment and cable clamp detaches automatically from the bar under tensile load.</p> <p>Various means for securing different diameters of cables</p> <ul style="list-style-type: none"> ■ Suitable for use with cables or hoses of 4, 5, 6 and 9 mm diameter (e.g. pear push switch, patient handset, listening tube) ■ 2 equipment and cable clamps can be put together for doubling the retention force ■ Can also be used for other devices <p><i>Dimensions: max. height: 160 mm, max. thickness: 18 mm, width: 70 mm</i> <i>Weight: 23 g</i> <i>Colour: RAL 7035 light grey</i> <i>Material: ABS</i></p>	<p>70 0361 00</p> 


Specification	Order no.	
Accessories for wireless call devices		
Magnetic wall bracket <i>for radio receiver</i> Bracket for magnetic fixing a radio receiver-T, order no. Z 00 8202 3x, to the wall next to the connection socket. <i>Dimensions (HxWxD): 64 x 40 x 12 mm</i>	Z 00 8202 21	
Key ring MyAmie <i>Packing unit: 1 piece</i> for radio trigger, order no. P6800x/0x.	D6702128	 <p>MyAmie not included in the scope of delivery</p>
Wrist strap (20 mm) MyAmie <i>Packing unit: 10 piece</i> for radio trigger, order no. P6800x/0x. <i>Dimensions (LxW): approx. 210 x 20 mm</i>	D6702145	
Leather wristband MyAmie, white <i>Packing unit: 1 piece</i> for radio trigger, order no. P6800x/0x. <i>Dimensions (LxW): approx. 255 x 20 mm</i>	75 0870 62	
Leather wristband MyAmie, black <i>Packing unit: 1 piece</i> for radio trigger, order no. P6800x/0x. <i>Dimensions (LxW): approx. 255 x 20 mm</i>	75 0870 63	
Neckcord MyAmie, white <i>Packing unit 10 pieces</i> for radio trigger, order no. P6800x/0x.	D6702137	

Specification	Order no.	
Neckcord MyAmie, black <i>Packing unit 10 pieces</i> for radio trigger, order no. P6800x/0x.	D6702155A	
Belt clip MyAmie <i>Packing unit 10 piece</i> for radio trigger, order no. P6800x/0x.	D6702136	 MyAmie not included in the scope of delivery
Accessories to ConLog^{CARE} Management Software		
Personal Computer, English Personal computer e.g. for ConLog ^{CARE} or ConLog ^{PLUS} Minimum equipment compatible to: <ul style="list-style-type: none"> ■ Hard disk ■ RAM: 4 GB DDR3 ■ Optical drive: DVD burner ■ Network card ■ USB keyboard, USB mouse ■ Operating system: Windows 7 Professional 32 bit (or successor), English ■ 19 inch TFT monitor ■ Supply voltage: 230 V AC / 50 Hz The specification will be the standard specification at the time of delivery. Further details on request.	19 8001 00	
Personal Computer, German as 19 801 00, but German version.	19 8000 00	
Patch cable, 5 m <ul style="list-style-type: none"> ■ RJ45 plug ■ Length: 5 m 	00 0241 53	

Specification	Order no.	
<p>DCF77 radio clock module for PC</p> <p>For synchronizing the CONCENTO^{CARE} or CONCENTO^{PLUS} nurse call system with the standard time of the DCF77 time signal transmitter.</p> <ul style="list-style-type: none"> ■ LED display red/green ■ USB port for the PC ■ CD with driver software ■ Cable length: 2 m <p><i>Dimensions (HxWxD): 80 x 40 x 20 mm</i></p>	19 0800 22	 <p>Similar to image</p>
<p>USV 500 VA / 300 V</p> <p>UPS system with overvoltage protection for electronic devices and computers</p> <ul style="list-style-type: none"> ■ Output capacity: 500 VA / 300 W ■ 3 battery-powered connection sockets ■ Additional plug only with overvoltage protection ■ Ambient temperature range Operation: 0 °C – +40 °C <p><i>Dimensions (HxWxD): 165 x 91 x 284 mm</i> <i>Weight: 6.32 kg</i></p>	21 9150 00	 <p>Similar to image</p>
Miscellaneous installation material		
<p>Null modem cable</p> <p>e.g. for connecting the Management Interface to an alarm server or radio paging system.</p> <ul style="list-style-type: none"> ■ Sub-D, 9-pin, socket/socket ■ Length: 3 m 	19 0800 14	

Specification	Order no.	
<p>Interface converter RS232 to RS485</p> <p>for converting from RS 232 to RS-422/485 interfaces.</p> <ul style="list-style-type: none"> ■ DTE/DCE selector switch ■ Bidirectional converting ■ Monitor for TXD/RXD diagnostics ■ Asynchronous transmission ■ Full/half duplex DCE/DTE mode ■ Transmission rate: 128 kbps ■ Range: 1.3 km ■ Device can be configured via three switches ■ Plastic housing ■ Plug-in power supply 9 V DC in scope of supply ■ 25-pin D-sub socket 	19 1990 12	
<p>Sub-D adapter cable</p> <ul style="list-style-type: none"> ■ 9-pin Sub-D socket ■ 25-pin Sub-D plug ■ Length: 25 cm <p>Note for ordering:</p> <p>Two RS232 to RS485 interface converters (19199012) and two Sub-D adapter cables (19199055) as well as an IY(St)Y 2x2x0.8 mm are required to extend an RS232 interface..</p>	19 1990 55	
<p>Over-voltage protection circuit 230 V AC</p>	70 0890 97	

Specification	Order no.	
<p>Network isolator LAN</p> <p>External network isolator for galvanic network separation according to EN 60601-1.</p> <ul style="list-style-type: none"> ■ Dielectric strength of signal and shielding: 5000 V ■ Operating mode: Continuous operation ■ Data throughput: 10/100/1000 MBit/s ■ Ports: 2x RJ45 ■ Network specifications: IEEE 802.3 ■ Standards: Safety: EN / IEC 60601-1 3rd EMC: EN / IEC 60601-1-2 <p><i>Dimensions (HxWxD): 23 x 29 x 65 mm</i> <i>Weight: approx. 50 g</i></p>	76 5000 00	
<p>Interface isolator RS232</p> <p>4 kV galvanic separated RS 232 isolator provides effective protection against external influences and fulfils the standard IEC 61850-3.</p> <ul style="list-style-type: none"> ■ 4 kV RSM galvanic separation ■ 15 kV ESD protection ■ Supply voltage: 24 V DC (from the nurse call system), max. 1 W ■ Diagnostic LEDs ■ Standard: IEC 61850-3 ■ Mounting on top-hat rail (35 mm) <p><i>Dimensions (HxWxD): 99 x 22,5 x 92 mm</i> <i>Weight: approx. 100 g</i></p>	76 5010 00	
<p>SPD module base part BXT BAS</p> <p>Base part, for use as feed-through terminal for supporting SPD modules for speech and data lines. Modules pluggable without interruption, for 4 single wires or 2 double wires. Width 12 mm (2/3 TE)..</p> <ul style="list-style-type: none"> ■ Mounting on 35 mm top hat rail acc. to EN 60715 ■ Connection cross section finely stranded: 0.08 - 2.5 mm² ■ Earthing via 35 mm top hat rail acc. to EN 60715 	77 4900 00	

Specification	Order no.
<p>SPD module for speech and data wires BXT ML4 BD HF 5</p> <p>Combined Lightning Current and Surge Arrester Module SPD class TYPE 1 / P1 tested acc. to EN 61643-21 and energy-coordinated acc. to IEC 61643-22 for protection of 2 pairs of IT systems. For use with high data transmission rates due to its low self impedance.</p> <ul style="list-style-type: none"> ■ For plugging into base part type BXT BAS. ■ SPD monitoring system: LifeCheck ■ Max. continuous operating DC voltage: 6.0 V ■ Nominal current for 45 °C: 1.0 A ■ D1 Total lightning impulse current (10/350): 10 kA ■ Series impedance per wire: 1.0 Ohm ■ Shock test: EN 60068-2-27 (Ea test) ■ Examination of vibration performance (sinusoidal): EN 60068-2-6 (Fc test) ■ Test for vibration performance (coincidental): EN 60068-2-64 (Fh test) 	<p>77 4900 01</p> 

Specification	Order no.	
Back boxes		
Back box solid wall, deep, 1-gang <i>Installation opening: Ø 60 mm</i> Depth: 66 mm	17 0100 20	
Back box solid wall, 1-gang <i>Installation opening: Ø 60 mm</i> Depth: 46 mm	17 0100 00	
Back box solid wall, 2-gang <i>Installation opening: 140 x 60 x 42 mm, oval</i> Without divider	17 0410 00	
Back box partition wall, deep, 1-gang <i>Burr hole: Ø 68 mm</i> Depth: 61 mm	17 5100 20	
Back box partition wall, 1-gang <i>Burr hole: Ø 68 mm</i> Depth: 47 mm	17 5100 00	

Specification	Order no.	
Back box partition wall, 2-gang <i>Burr hole: Ø 2 x 68 mm, oval</i> Depth: 47 mm, centre distance: 71 mm, without divider	17 5400 00	