



Product information

Signal Unit FIL1101-0140

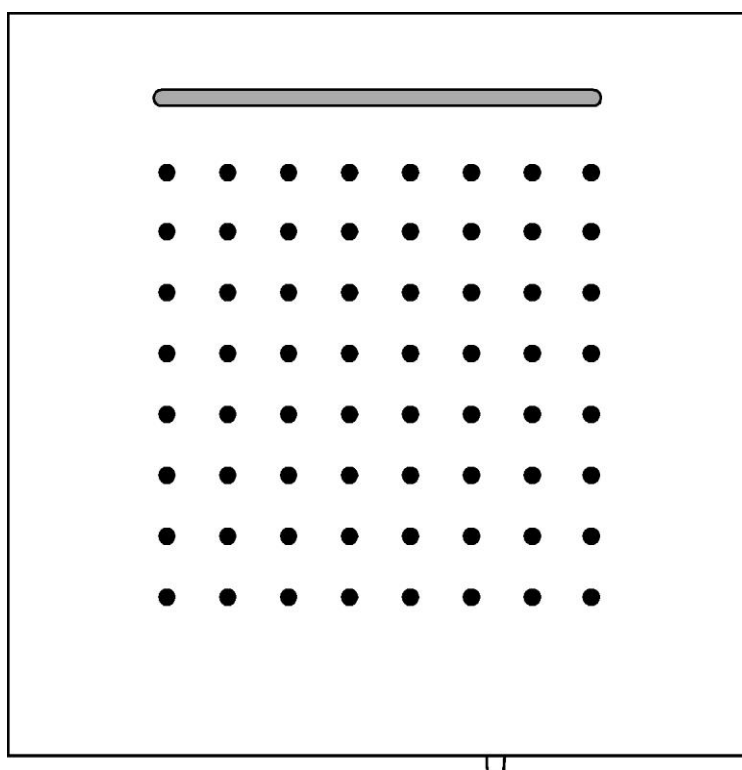


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Scope of delivery

1 x signal unit FIL1101-0140
1 x IR remote control
1 x product information

Safety instructions

General safety regulations

! Attention! Mounting, installation, commissioning and repair of electronic devices have to be carried out only by qualified electricians. Thus, the current standards and instructions for the installation of door communication systems have to be observed.

When working on systems with a main connection of 230 V alternating voltage, the safety regulations according to DIN VDE 0100 must be observed.

When installing TCS:BUS systems, the general safety regulations for telecommunication systems according to VDE 0800 must be observed. Inter alia:

- separated conduit of heavy and low current lines,
- minimum distance of 10 cm in case of a common conduit,
- use of separators between heavy and low current lines within shared cable ducts,
- use of standard communication lines, e.g. J-Y (St) Y with a diameter of 0.8 mm,
- existing lines (modernisation) with deviating cross-sections can be used in compliance with the loop resistance.

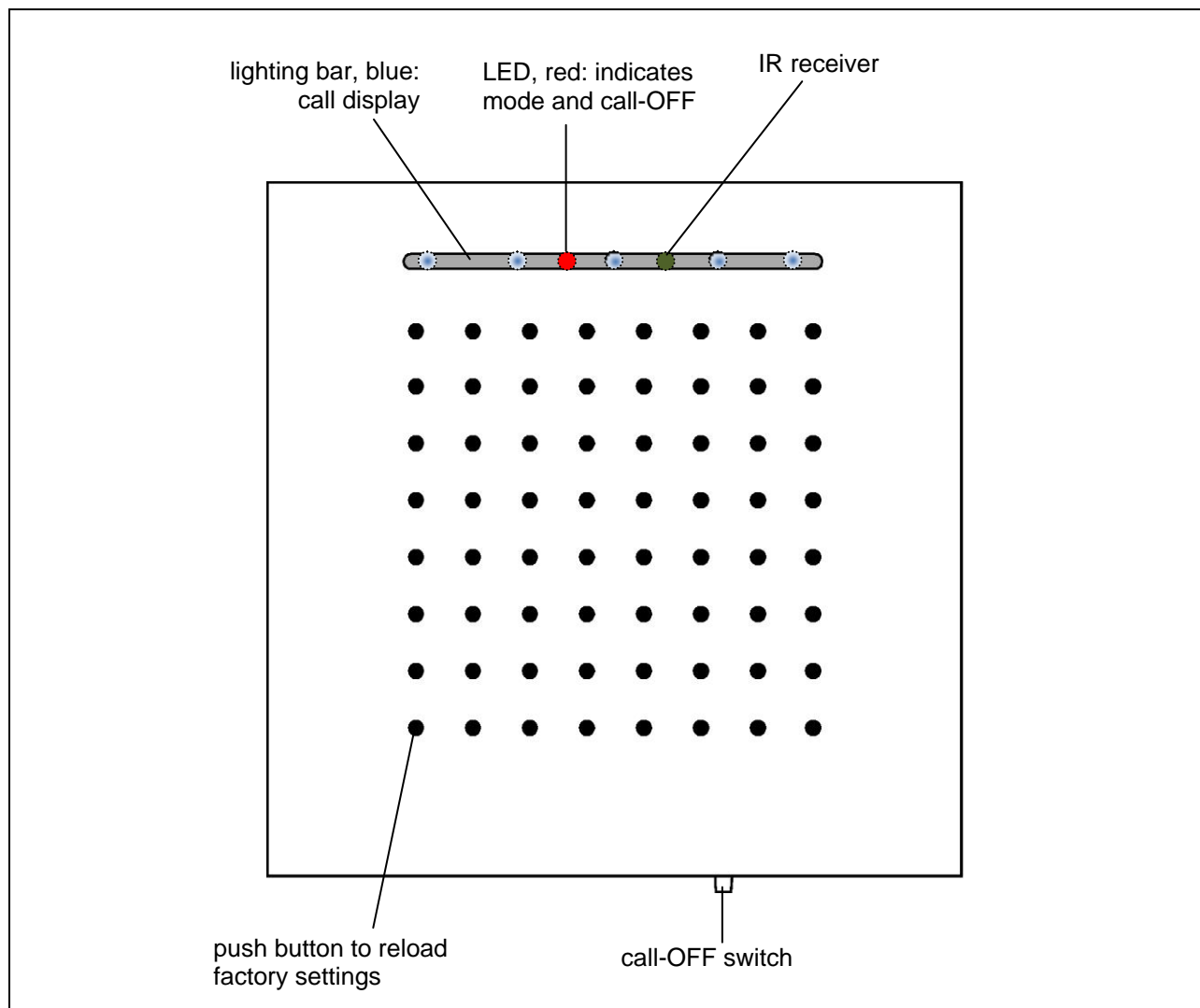
Installation – protective measures

! With suitable measures to protect against lightning, it has to be ensured that a voltage of each 32 V DC is not exceeded at the connections a, b, P, E.

Intended use

- The FIL1101 is a signal unit for the TCS:BUS.
- The FIL1101 can be allocated parallel to indoor station(s) (necessary for announcement function indoor station or central).
- Three or more devices connected in parallel must all be supplied by the P-wire (3-wire operation).




Device overview



Technical data

supply voltage:	+24 V \pm 8 % (power supply and control unit)
housing:	plastics, white
dimensions (in mm):	W 98 x H 98 x D 12
weight:	100 g
acceptable ambient temperature:	-5°C .. +40°C
input current, standby	
2-wire operation:	I(a) = 1.5 mA
3-wire operation:	I(a) = 0.2 mA, I(P) = 1.3 mA
max. input current	
3-wire operation:	I(Pmax) = 70 mA
ring tone volume:	ca. 85 dB (distance of 0.5 m)

Indication and operating elements

	Labelling	Function
	LED, red: indicates mode and call OFF	<ul style="list-style-type: none"> • OFF: device in standby mode • blinks: in programming mode via IP remote control, waits for command input while factory settings are re-loaded via push button • blinks fast: in programming mode when incorrect entry (for 3 s) and the reload of the factory settings is completed • ON: ring tone output is switched OFF and in programming module when entry is correct (for 3 s)
	lighting bar, blue: optical call display	<ul style="list-style-type: none"> • OFF, blinks, blinks fast, flashes: can be individually adjusted for incoming door calls, floor-door calls, internal calls or sub-door calls • ON: during an announcement and when a voice connection is established within the system
	push button load factory setting	<ul style="list-style-type: none"> • to load factory settings of the FIL1101

Short description

- 39 different ring tones (3 different sound profiles ISH1030, ISH3030, Skyline) can be adjusted via IR remote control
- optical call display via blue lighting bar
- call distinction for 2 front-doors (door calls from front-door station smaller or equal or larger than AS threshold for audio front-door call), floor door, internal call and 4 sub-door calls
- ring tone output can be switched off at call-OFF button at the housing or via IR remote control
- parallel allocation to 2 indoor stations via IR remote control, TCSK01 or configoTM
- automatic announcement to several FIL1101 after internal call to 2nd parallel call no.
- announcement function for 3 groups (possible in combination with user software call central PCSWxxxx, concierge station PFSxx-EN, ADU4 or AFP10000-0)
- volume for ring tone and announcement digitally adjustable in 8 steps
- 2-wire and 3-wire operation, in 2-wire operation max. 2 devices can be operated in parallel
- protected against unauthorised configuration by password
- button acknowledgement tone when IR remote control is used
- push-button to load factory settings
- can be updated via ISP connection

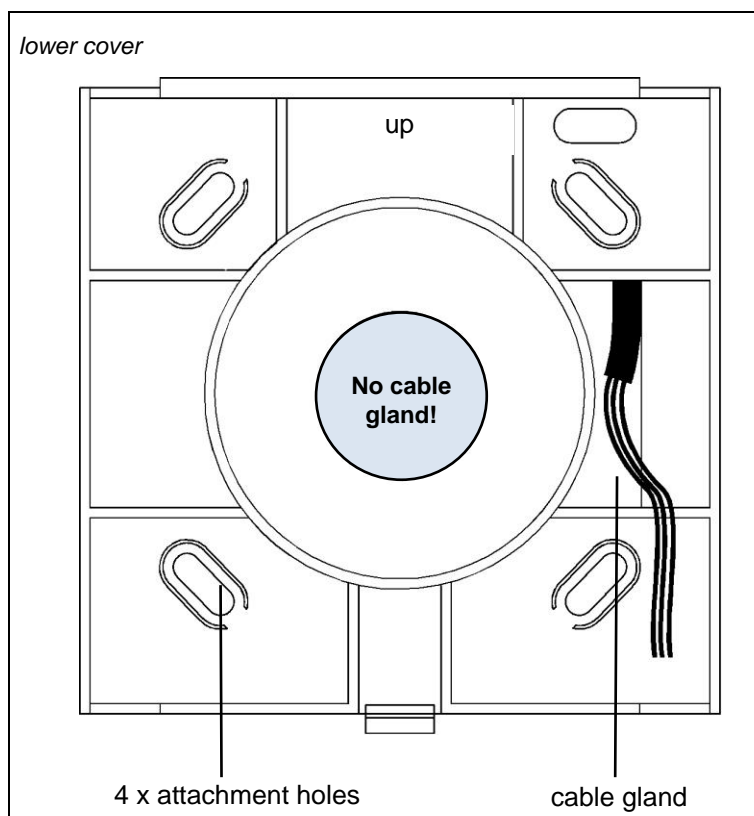
Assembly and installation

Install the lower cover

Install the lower cover at least via three attachment holes and suitable screws to the wall.

TIP

As the space for cabling in the FIL1101 is limited, it can also be installed on a wall outlet one gang box.



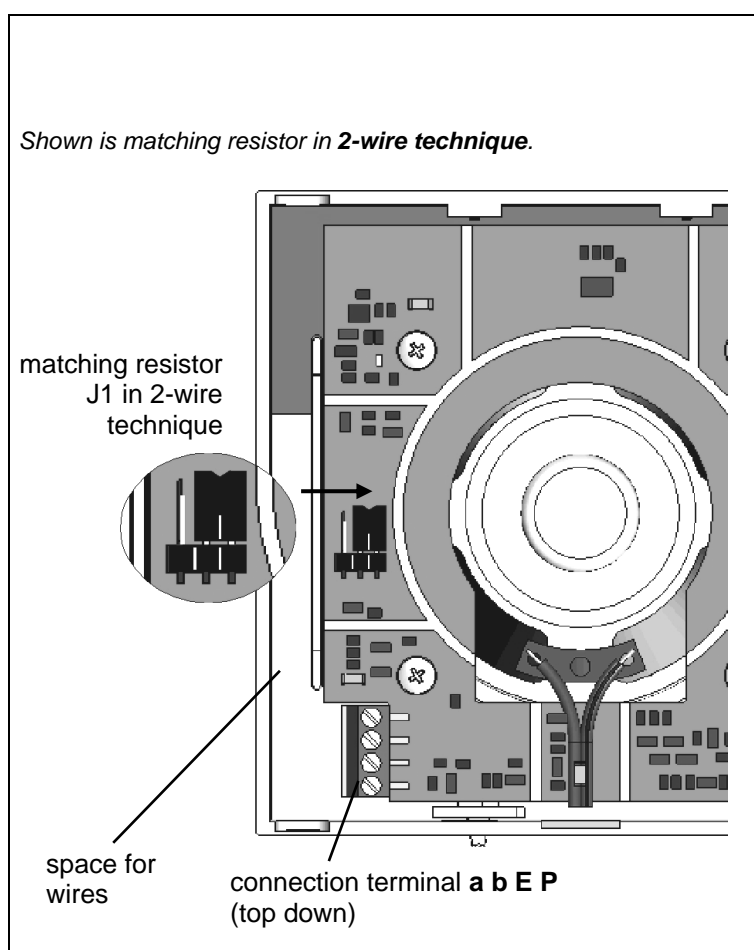
Connect the lines

- Minimize the length of the lines above the lower cover in order to place the lines without any problems and to prevent clamping the lines when snapping on the upper cover.
- Loosen the screws of the connection terminal and connect the lines according to the labelling.

Note: Wires can be placed next to the printed circuit board.

Settings for 2-wire technique

- Ex works, the FIL1101 is set for 3-wire technique (J1 placed on the left contacts or enclosed in accessories kit = *not plugged in*).
- For 2-wire technique, place matching resistor J1 on both contacts on the right!

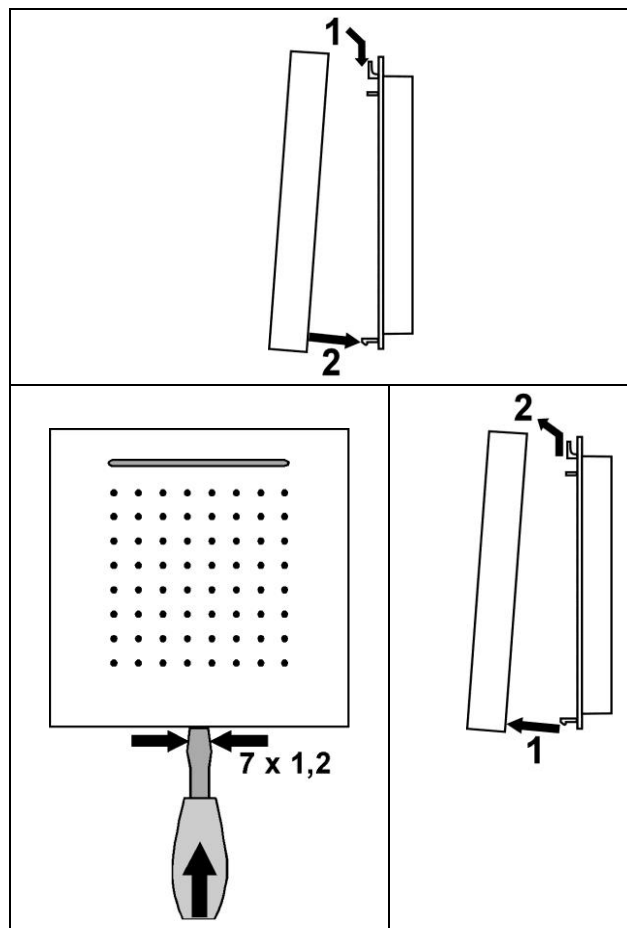


Snap on the upper cover

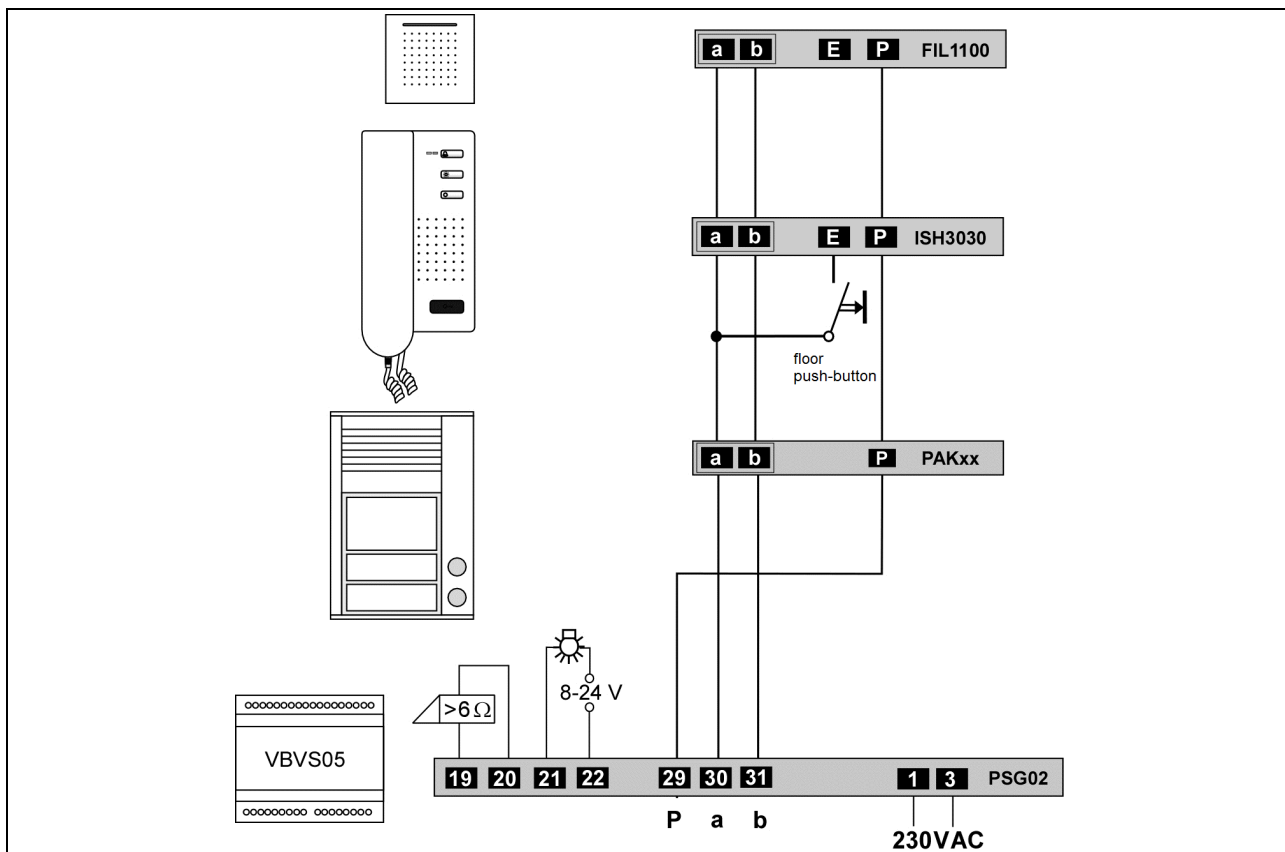
1. Put the upper cover to both adjustment increments at the lower cover (1).
2. Snap on the upper cover (2).

Open the device

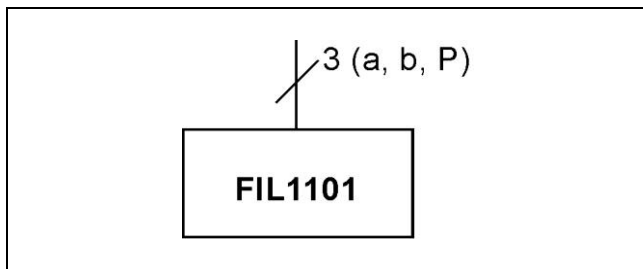
3. There is a release opening at the underside of the device. Insert a screw driver with ca. 7 mm width carefully, straight and with slight pressure into the opening.
4. The upper cover can be removed from the underside (1).
5. Remove the upper cover from both adjustment increments (2).



Wiring example



Connection diagram



Commissioning

- Install the devices of the system completely.
- Check the a-, b- and P-wire against each other for short-circuits.
- Switch on the mains voltage.

Configuration

Possible configurations

function	push-button	TCSK-01	IR remote control	configo™ (as of V1.6)
allocate parallel to serial number 1	-	X	X	X
allocate parallel to serial number 2	-	X	X	X
select ring tone for floor call	-	-	X	X
select ring tone for internal call	-	-	X	X
select ring tone for door call 1 (AS less or equal audio AS-threshold)	-	-	X	X
select ring tone for door call 2 (AS less or equal audio AS-threshold)	-	-	X	X
select ring tone for sub-door call 1, 2, 3 or 4	-	-	X	X
set optional call indication for floor call	-	-	X	X
set optional call indication for internal call	-	-	X	X
set optional call indication for door call 1	-	-	X	X
set optional call indication for door call 2	-	-	X	X
select optional call indication for sub-door call 1, 2, 3 or 4	-	-	X	X
set ring tone volume	-	-	X	X
set announcement volume	-	-	X	X
set alarm group 1, 2 or 3	-	-	X	X
reload factory settings	X	-	X	X
change master code	-	-	X	X
programming lock for IR remote control	-	-	-	X
lock for IR remote control	-	-	-	X
lighting bar activated / deactivated	-	-	-	X
lock push-button <i>reload factory settings</i>	-	-	-	X

Preset factory settings

The device is equipped with an EEPROM. Here the following device settings are stored:

programming lock	OFF (= 0)
can be programmed with IR remote control	ON (= 1)
operation with IR remote control	ON (= 1)
master code	serial number of the device
parallel serial numbers SNo 1 and SNo 2	0
sound profile	1 (ISH3030)
floor call	2
internal call	6
door call 1, door call 2	10, 10
sub-door call 1, 2, 3, 4	7, 8, 9, 11
optical call display, period	2 (blinks), 30 s
volume ring tone	6
volume announcement	7
audio AS-threshold	0
alarm group	63

Load factory setting via push-button

! Attention! When loading the factory settings, the master code and all settings set by the user will be lost.

- To press the push-button factory setting, use a suitable tool e.g. small screwdriver, wire or the like.

LED, red OFF or ON	LED, red blinks	LED, red blinks fast	LED, red is ON
Press push-button load factory settings and keep pressed, until LED, red blinks fast, then re- lease button	factory setting is loaded

Programming with IR remote control

Important notes

- The programming must always be initiated and terminated resp. is terminated by the device.
- When the input is correct, a positive acknowledgement tone (📞 —) sounds.
- If the entry of an instruction sequence (⊗ 0...⑨ #...) is interrupted for 8 seconds, the whole instruction sequence is rejected, a negative acknowledgement tone (📞 —) sounds.
If the entered instruction sequence does not correspond to the given syntax, or if too








- When operating the IR remote control always point it with the head towards the device. The range of the IR remote control is max. 1 m direct line.
- Every keystroke at the IR remote control is acknowledged by the FIL1101 with a brief button acknowledgement tone ())) ■——).

Anybody who has the enclosed IR remote control can set the programming at every device with the factory setting master code. For safety reasons, the preset master code should be changed when commissioning!

Authorisation via IR remote control		<p><i>Keystroke is acknowledged by the device with a brief button acknowledgement tone.</i></p> <p>Note: <i>If the ring tone output is switched off, the red LED goes OFF with the first keystroke (entry: *). This function stays active. The red LED is ON again, as soon as the programming mode has been left.</i></p>	
Correct entry: ready to programme	(*)0...9#	<p>LED, red is OFF.</p> <ul style="list-style-type: none"> * master code # (WE* = <6 digit serial number FIL1101>) A positive acknowledgement tone sounds, LED, red is ON for 3 s. then, LED, red blinks. 	
Wrong entry, unknown master code		<p>A negative acknowledgement tone sounds when pressing the #-key.</p> <p>The LED, red blinks fast for 3 s,</p> <p>then the LED goes off.</p> <p>A false code can only be entered 3 times. Then, the code entry is locked for 2 minutes. No code can be entered: the red LED flashes and goes off (7:1, 1 Hz) for 2 minutes, then goes off again. Start from the beginning.</p>	
No entry		<p>If for 2 minutes, no command has been entered, the device automatically terminates the programming mode, the red LED goes off.</p>	

Parallel allocation to serial numbers 1 and 2


- Further (sub) indoor stations or signal units can be allocated to a main indoor station (indoor station with handset or for simplex communication). When the main indoor station is called, also the signal unit chimes. A direct call to the sub-indoor station or the allocated signal unit is not indicated at the main indoor station.
- If there are more than 2 devices connected in parallel, all devices must be supplied by P-wire (3-wire operation).
- The FIL1101 can be allocated to two different indoor stations (parallel serial numbers 1 and 2).

 Initiate programming		If not yet done	
Enter Indoor station with this serial number has been found <ul style="list-style-type: none"> • <i>incorrect serial number</i> • <i>SNo is already allocated</i> 	* 1 1 # ... * 1 2 # ...	* 11 # SNo 1 # * 12 # SNo 2 # <ul style="list-style-type: none"> • SNo 1 and 2: 0 to 999999 (WE* = 0) • If SNo = 0 is entered, parallel allocation is deactivated. • a positive acknowledgement tone sounds, red LED is ON for 3 s. • then LED red blinks. The FIL1101 is allocated parallel to the indoor station. <i>A negative acknowledgement tone sounds when pressing the #-key.</i> <i>The red LED blinks fast for 3 s, then blinks again.</i>	(SNo = serial number of the indoor station)      

* WE = factory setting

Select sound profile and ring tones

For 8 different incoming calls (door call from 2 different front-door stations, floor call, internal call, sub-door calls 1 to 4) different ring tones can be selected.

 Initiate programming		If not yet done	
sound profile selection enter	* 2 0 #	* 20 # sound profile # sound profile (WE = 1) = 0 ISH1030 = 1 ISH3030 = 2 Skyline	

* When the ring tone for door call 1 is selected for the first time, the ring tone is also set for door call 2. Only when the ring tone for the second front-door station is selected separately, it always has to be selected separately.








Sound profiles

ring tone	ISH1030	ISH3030	SKYLINE
0	alpha tone 1	triad gong	trumpet sax
1	alpha tone 2	melody 1	bigben
2	alpha tone 3	alpha tone triple	china
3	alpha tone 4	melody 2	doorbell
4	alpha tone 5	alpha tone 1	fanfare
5	alpha tone 6	horch	horch
6	gong tone single	bigben	bell
7	gong tone double 1	elise	djingle
8	gong tone double 2	melody 3	telephone modern
9	gong tone triple	gong special	triad
10	alpha tone triple	rondo	rythm
11	gong tone gleich 1	alpha tone 3	telephone old
12	gong tone gleich 2	cadence	cavalry
13	<i>acknowledgement tone*</i>		
14	<i>alarm tone 1*</i>		<i>siren 1*</i>
15	<i>alarm tone 2*</i>		<i>siren 2*</i>

* Sounds cannot be selected as ring tones by the user.



Set optical call indication

For 8 different incoming calls, (door calls from 2 different front-door stations, floor call, internal call, sub-door calls 1 to 4) different flashing sequences of the blue lighting bar as well as their respective duration after the incoming call can be set.


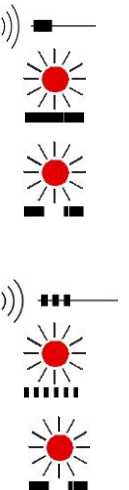
 Initiate programming		If not yet done	
<p>enter</p> <p>correct values has been entered</p> <p>select further optical call indications</p> <p><i>incorrect value has been entered</i></p>	<p>⊛ 4 1 # ...</p> <p>⋮</p> <p>⊛ 4 8 # ...</p> <p>⋮</p> <p>⊛ 4 9 #</p> <p>▶▶▶</p>	<p>* 4x # flashing sequence # duration #</p> <p>x = 1 floor call (WE* = 1 # 30)</p> <p>= 2 internal call (WE* = 1 # 30)</p> <p>= 3 door call 1 (AS less or equal audio AS-threshold) (WE* = 2 # 30)</p> <p>= 4 door call 2 (AS larger than audio AS-threshold) (WE* = 2 # 30)</p> <p>= 5 sub-door call 1 (WE* = 2 # 30)</p> <p>= 6 sub-door call 2 (WE* = 2 # 30)</p> <p>= 7 sub-door call 3 (WE* = 2 # 30)</p> <p>= 8 sub-door call 4 (WE* = 2 # 30)</p> <p>= 9 GFA-call (WE* = 1 # 30)</p> <p>flashing sequence</p> <p>= 0 OFF</p> <p>= 1 blinks fast</p> <p>= 2 blinks</p> <p>= 3 flashes 1:7 (0.5 s ON / 3.5 s OFF)</p> <p>= 4 flashes 7:1 (3.5 s ON / 0.5 s OFF)</p> <p>duration</p> <p>= 1 to 120 s</p> <p>= 0 when door call: =door standby time, when internal call and floor call: 30 s</p> <ul style="list-style-type: none"> A positive acknowledgement tone sounds, the red LED acknowledges with selected flashing sequence (e.g. flashing 1:7), duration 5 s. then the red LED is ON for 3 s. Then the red LED blinks. <p>The selected optical call indication is stored.</p> <p>Repeat the process.</p> <p><i>A negative acknowledgement tone sounds when pressing the #-key.</i></p> <p><i>The red LED blinks fast for 3 s, then blinks again.</i></p>	     

* WE = factory setting

Adjust ring tone volume








 Initiate programming		If not yet done	
Enter correct value has been entered <i>incorrect value has been entered</i>	* 5 # volume # volume = number 0 to 7 (WE* = 5)	• The selected ring tone sounds with the set volume, the red LED is ON for 3 s. • Then the red LED blinks. The selected ring tone volume is stored. <i>A negative acknowledgement tone sounds when pressing the #-key.</i> <i>The the red LED blinks fast for 3 s, then blinks again.</i>	

Set audio AS-threshold (for call distinction)

 Initiate programming		If not yet done	
enter correct value has been entered <i>incorrect value has been entered</i>	* 6 # AS-address # AS-address = 0 to 63 (WE* = 0)	• The selected ring tone sounds with the set volume, the red LED is ON for 3 s. • Then the red LED blinks. The audio AS-threshold is stored. <i>A negative acknowledgement tone sounds when pressing the #-key.</i> <i>The the red LED blinks fast for 3 s, then blinks again.</i>	








* WE = factory setting

Determine alarm groups

 Initiate programming		If not yet done	
<p>enter</p> <p>correct value has been entered</p> <p>incorrect value has been entered</p>	<p>⊗ 7 1 # ...</p> <p>⋮</p> <p>⊗ 7 3 # ...</p>	<p>* 7x # alarm group #</p> <p>x = 1 alarm group 1 = 2 alarm group 2 = 3 alarm group 3</p> <p>alarm group = 0 to 63 (alle WE* = 63)</p> <ul style="list-style-type: none"> A positive acknowledgement tone sounds, LED, red acknowledges with selected flashing sequence (e.g.flashing 1:7), duration 5 s. Then the red LED is ON for 3 s. Then the red LED blinks. <p>The alarm group is stored.</p> <p><i>A negative acknowledgement tone sounds when pressing the #-key.</i></p> <p><i>The the red LED blinks fast for 3 s,</i></p> <p>then blinks again.</p>	     


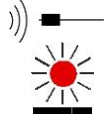

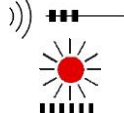

* WE = factory setting

Change master code

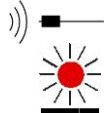



 Initiate programming		If not yet done	
<p>enter</p> <p>correct master code and correct value have been entered</p> <p>incorrect entry, unknown master code</p>	<p>⊗ 9 8 # ...</p>	<p>* 98 # old master code # new master code # new mastercode # master code = number with 6 digits</p> <div data-bbox="635 1444 1129 1579" style="border: 1px solid black; padding: 5px;"> <p>! ATTENTION: For safety reasons, the preset master code should be changed when commissioning!</p> </div> <ul style="list-style-type: none"> A positive acknowledgement tone sounds, the red LED is ON for 3 s. then the red LED blinks. <p>The new master code has been stored.</p> <p><i>A negative acknowledgement tone sounds when pressing the #-key.</i></p> <p><i>The red LED blinks fast for 3 s,</i></p> <p>then blinks again.</p>	     

Load factory settings

! Attention! When loading the factory settings, the master code and all settings set by the user will be lost.

 Initiate programming		If not yet done	
enter Correct master code has been entered. Factory setting is loaded. <i>incorrect entry, unknown master code</i>	(✕) (9) (9) (#) ...	<p>* 99 # master code # master code # master code = number with 6 digits (own master code or default master code)</p> <ul style="list-style-type: none"> The factory setting is loaded. A positive acknowledgement tone sounds, the red LED is ON for 3 s. Then the red LED blinks. <p><i>A negative acknowledgement tone sounds when pressing the #-key.</i></p> <p><i>The red LED blinks fast for 3 s, then blinks again.</i></p>	   

End programming

enter <i>or</i> wait ended	(✕) (9) (#)	<p>* 9 #</p> <p>or</p> <ul style="list-style-type: none"> there is no programming for 2 min. A positive acknowledgement tone sounds, the red LED is ON for 3 s. <p>the red LED expires.</p>	  
		<p><i>Note:</i> If the ring tone mute had been OFF, the red LED is ON again as soon as the programming mode is exited. This function is indicated again.</p>	

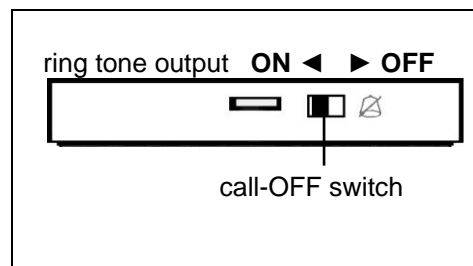
Programming with Service Device TCSK-01

Configure signal unit FIL1101	
programming parallel allocation 1	* 40 # Ser-No # ParSNo #
programming parallel allocation 2	* 41 # Ser-No # ParSNo #

Operation

Ring tone output via call-OFF switch

- switch ON:
Move the call-Off switch at the underside of the device to the left
- switch OFF:
Move the call-Off switch at the underside of the device to the right.
(symbol call-OFF)



Operation with IR remote control

Button	Action	Response
1	switch Off ring tone output	short acknowledgement tone, red LED is ON
3	switch ON ring tone output	the last ring tone sounds, red LED is OFF
4	decrease volume*	The ring tone selected last sounds with the decreased volume, the new value is stored.
5	increase volume*	The ring tone selected last sounds with the increased volume, the new value is stored.
6	trigger 16 bit door opener with AS address of the last door call	short acknowledgement tone
7	trigger light switch protocol with the AS address of the last door call	short acknowledgement tone

* Only when there is no announcement (no alarm announcement. While an announcement sounds, the volume of voice output is adjusted. The volume of an alarm announcement is maximal and cannot be changed.

IR remote control

Commissioning

1. Remove the battery cover on the back of the IR remote control.
2. Remove the foil strip.
3. Attach the cover.

Change batteries

You need 1 button cell CR2025 (DC3.0 V) for the IR remote control.

4. Remove the battery cover on the back of the IR remote control.
5. Observe the polarity of the battery and the markings in the battery compartment "+/-".
6. Insert the battery.
7. Attach the cover.

Attention!

! Because the risk of explosion, the button cells must not be recharged!

Do not dispose batteries as ordinary domestic waste!

Batteries must be delivered to a collection point for used batteries.

Clean signal unit and remote control

! Avoid water from entering the device!
Do not use any abrasive detergents!

Clean the device with a dry or slightly moist cloth.
Remove stronger stains with a mild household cleaner.

Spare parts, accessory

short text	article number
IR remote control	E23253

Conformity



The device meets the requirements of the EU Directive 2004/108/EG by complying to the norms: EN 61000-6-3, EN 61000-6-1. Download declarations on conformity from www.tcsag.de, downloads, trade information.

Information on disposal



The adjoining symbol shows, that the devices have to be disposed separately from domestic waste. The materials used are recyclable. Please do help protect our environment and dispose the device via a collection point for electronic waste.



Dispose the parts of the packaging in collecting tanks for cardboard and paper resp. plastics.

Warranty

We offer a **simplified processing** in case of warranty for electricians.

- Note our **conditions of sale and delivery**, to download from www.tcsag.de, downloads, trade information and included in our latest price list.
- Please contact **TCS HOTLINE**.

Service

Please send your questions to
hotline@tcsag.de

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