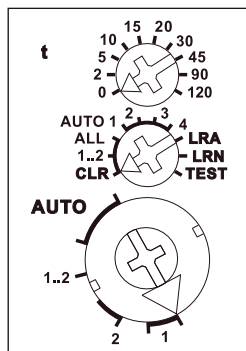


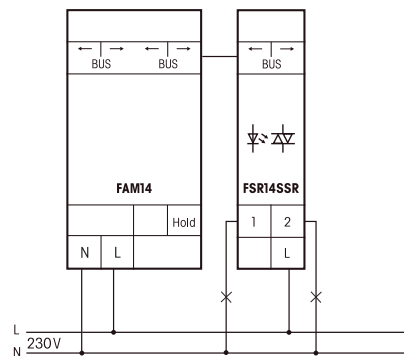
RS485 bus actuator

Noiseless 2-channel impulse
switch FSRI4SSR**Only skilled electricians may install
this electrical equipment otherwise
there is the risk of fire or electric
shock!**Temperature at mounting location:
-20°C up to +50°C.
Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.**valid for devices from production week
12/17** (see bottom side of housing)Noiseless 2-channel impulse switch with
integrated relay function, 400W.
2 solid state relays not potential free.
Bidirectional. Only 0.1 watt standby loss.
Modular device for DIN-EN 60715 TH35
rail mounting. 1 module = 18mm wide,
58mm deep.**Connection to the Eltako-RS485 bus.
Bus cross wiring and power supply with
jumper.**If both relays of the FSRI4 are switched
on, a power of 0.4 watts is required.**The rated switching capacity of 400W is
applied for one contact and also for the
sum of the two contacts. The parallel
connection of multiple devices to
increase power is allowed.**From manufacturing date 12/17 with
automatic overtemperature shutdown.
With a load < 1W a GLE must be
switched parallel to the load.If supply voltage fails, the device is
switched off in defined mode.**The channels can be taught-in as ES
and/or ER channel separately from each
other.****Scene control:**Several channels of one or several
FSRI4SSR devices can be switched on or
off in a scene by one of the four signals
of a pushbutton with double rocker
taught-in as a scene button.**Central commands on PC** are sent using
the GFVS Wireless Visualisation and
Control Software. To do this, teach-in one
or several FSRI4SSR devices.**Function rotary switches****Use the rotary switches** to teach-in the
buttons and test the 2 channels as required.
For normal mode, the middle and lower
rotary switches are then set to AUTO. With
the upper rotary switch the EW time (0-
120 seconds) is directly set for relays or
the RV time (0-120 minutes) for impulse
switches for all channels if necessary.
When **FBH wireless motion/brightness
sensors (masters)** are taught-in, the
switching threshold is defined separately
for each channel using the upper rotary
switch. The switching threshold switches
the lighting on or off depending on the
brightness (in addition to motion) (from
approx. 30 lux in position 0 to approx. 0
300 lux in position 90).If **FBH devices (slaves)** are taught-in in
Position 120, they are only evaluated as
motion detectors.Several FBH devices are interlinked per
channel. If an FBH signals 'motion', the
NO contact closes. Only when all FBH
devices signal 'no motion' does the NO
contact open after the preset RV time.
When an FBH is taught-in, the RV time
only applies to the FBH.Press the ON side of a direction push-
button for 2 seconds to switch it on per-
manently. Signals are not evaluated by
the FBH.Press the OFF side of a direction
pushbutton for 2 seconds to switch it off
permanently. Signals are not evaluated
by the FBH.Press the direction pushbutton briefly to
re-evaluate FBH signals.**When wireless brightness sensors FAH60**
are taught-in, define the switching thresh-
old separately for each channel using
the top rotary switch. The switching
threshold switches the lighting on or off
depending on the brightness (from
approx. 0lux in position 0 to approx.
50lux in position 120). A hysteresis of
approx. 300lux is permanently set for
switch on/off.An additionally set RV time is not taken
into account.Only one FBH (masters) or FAH is
taught-in per channel. However, one
FBH (masters) or FAH can be taught-in
in several channels.**When wireless window/door contacts
FTK oder Hoppe window handles** are
taught-in, different functions can be set
with the middle rotary switch in position
AUTO 1 to AUTO 4 and linked to maxi-
mum 116 FTKs:AUTO 1 = window closed then output
active.AUTO 2 = window open then output
active.In settings AUTO 3 and AUTO 4 the FTKs
taught-in to a single channel are linked
automatically. With AUTO 3 all FTKs
must be closed so that the N/O contact
closes (e.g. for climate control). With
AUTO 4 one open FTK is sufficient to
close the N/O contact (e.g. for an alarm
signal or to switch on the power supply
for an extractor hood).One or several FTKs can be taught-in in
several channels to allow several simul-
taneous functions in each FTK.After a power failure the link is restored
by a new signal to the FTK and a signal
on the next status message 15 minutes
later.An additionally set RV time is not taken
into account.When **FRW** wireless smoke alarms are
taught-in, they are interlinked per channel.When an FRW signals 'smoke', the NO
contact closes. Only after all FRW devices
signal 'no smoke' does the NO contact
open.When **eco water probes** (Art. No. 55080)
or **con floor water probes** (Art. No.
78142) are taught-in with FTM wireless
transmitter (Art.-No. 78143) from AFRISO,
a variety of functions can be set using
the middle rotary switch in Positions
AUTO 1 to AUTO 4.AUTO 1 = 'no water', then NO contact
closed.

AUTO 2 = 'water', then NO contact closed.

In Positions AUTO 3 and AUTO 4 the
water probes taught-in to a single chan-
nel are interlinked automatically. With
AUTO 3, all water probes must signal
'no water' before the NO contact closes.
The NO contact opens when a water
probe signals 'water'.With AUTO 4, the NO contact closes
when a water probe signals 'water'.
Only when all water probes signal 'no
water' does the NO contact open.

An additionally set RV time is ignored.

The LED below the upper function rotary
switch performs during the teach-in
process according to the operation
manual. It shows control commands by
short flickering during operation.**Typical connection**

Teaching-in wireless sensors in wireless actuators

All sensors must be taught-in in the actuators so that they can detect and execute commands.

Teaching-in actuator FSRI4SSR

The teach-in memory is clear on delivery from the factory. To ensure that a device was not previously taught-in, **clear the complete memory:**

Turn the middle rotary switch to ALL (or to CLR 1..2) if you only want to clear one channel and also turn the lower rotary switch to the required channel). The LED flashes at a high rate. Within 10 seconds, turn the upper rotary switch three times to right stop (turn clockwise) and back again.

The LED stops flashing and goes out after 2 seconds. All taught-in sensors/probes or channel sensors/probes are cleared.

Clear individual taught-in sensors in the same way as in the teach-in procedure, except that you set the middle rotary switch to CLR instead of LRN, and operate the sensor. The LED previously flashing at a high rate goes out.

Teaching-in sensors

1. Select the required Channel 1, 2 or 1..2 using the lower rotary switch.
2. Use the upper rotary switch to select the required teach-in function.
0 = teach in 'direction button';
Rocker is completely taught-in automatically when operating the pushbutton. The side on which the pushbutton is first operated is defined for switching on, the other side for switching off.
5 = teach in 'universal button ES';
10 = teach in 'universal button ER';
15 = teach in 'central control button ON' with priority;
20 = teach in 'central control button OFF' with priority;

Central buttons have priority as long as they are pressed.

30 = teach in 'scene button';

Scene buttons (double rocker) are taught-in in fully automatic mode.

'Save scenes' as described further on.

45 = teach in 'central control button ON';

90 = teach in 'central control button OFF';

120 = each in FBH (slave) and FRW;

3. Set the middle rotary switch to LRN. The LED flashes at a low rate.
4. Press the sensor to be taught-in. The LED goes out.

The position of the upper rotary switch is unimportant for FTK, water probes and PC during the teach-in process.

To teach-in further sensors, turn the middle rotary switch briefly away from position LRN. Continue the procedure from pos 1.

A pushbutton (rocker end) can only execute the same last taught-in function of different channels of a FSRI4SSR. Different pushbuttons can execute different functions of one or more channels of a FSRI4SSR.

After teaching-in, set the middle and lower rotary switches to AUTO and turn the upper function rotary switch to the required time. For taught-in window/door contacts FTK, note that the middle rotary switch must be in the required setting AUTO 1 to 4.

Teach in scenes

Up to 4 scenes are being saved with a previously taught-in scene pushbutton.

1. All 2 channels of the impulse switch can be turned on or off individually with a previously taught-in universal-, direction-, or central pushbutton as it is desired for one scene.
2. The switch state is saved within 60 seconds when you press one of the four rocker ends of the doublerocker scene button for longer than 3 seconds but shorter than 10 seconds.
3. If more scenes have to be saved return back to point 1.

Recall scenes

Press one rocker of the scene pushbutton briefly to recall the scene you require.

An additionally set RV time is not taken into account.

When the middle rotary switch is set to TEST, the 2 contacts can be closed individually using the lower rotary switch: TEST + AUTO = all contacts open, TEST + 1 = contact 1 closed, TEST + 2 = contact 2 closed, TEST + 1..2 = all contacts closed.

Assign device address for the FSRI4:

The rotary switch on the FAM14 is set to position 1, its lower LED flashes red. The lower rotary switch of the FSRI4 is set to 1..2. The middle rotary switch of the FSRI4 is set to LRN, the LED flashes smoothly. After the address of the FAM14 was assigned, its lower LED flashes green for 5 seconds and the LED of the FSRI4 goes out.

Delete device configuration:

Set the middle rotary switch to ALL. The LED flashes nervously. Then turn the upper rotary switch within 10 seconds 3 times to the leftmost stop (anticlockwise) and turn it back again. The LED stops flashing and goes out after 5 seconds. The factory settings are restored.

Delete device configuration and device address:

Set the middle rotary switch to ALL. The LED flashes nervously. Then turn the upper rotary switch within 10 seconds 6 times to the leftmost stop (anticlockwise) and turn it back again. The LED stops flashing and goes out after 5 seconds. The factory settings are restored and the device address deleted.

Configure FSRI4SSR:

The following points can be configured with the PC tool:

- behavior upon return of supply voltage
- teaching-in of wireless pushbuttons and wireless Hoppe window handles with single or double click
- scenes for scene pushbuttons
- add or change sensors

CAUTION! Don't forget 'disconnect FAM' in the PC tool. While the connection from the PC tool to the FAM14 exists, no wireless commands are executed.

Teach-in confirmation telegram of another bus actuator to the FSRI4SSR:

As in the teach-in procedure, only set the middle rotary switch to LRA instead to LRN. Teach-in 'switch ON' as 'central control button ON'. Teach-in 'switch OFF' as 'central control button OFF'.



When an actuator is ready for teach-in (the LED flashes at a low rate), the very next incoming signal is taught-in. Therefore, make absolutely sure that you do not activate any other sensors during the teach-in phase.

Must be kept for later use!

We recommend the housing for operating instructions GBA14.

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