



Berker the right way.

PERFECT COMBINATION

EXCLUSIVE DESIGN – INNOVATIVE TECHNOLOGY

Even at first glance the Berker TS Sensor is anything but a conventional switch. Its glass surface is completely uninterrupted – no rockers, no recesses, no buttons, not even fastening screws. And it can still be used to operate blinds, shutters, lights and any other application that can be controlled via building automation systems or relay circuits.

The TS Sensor's flat surface also incorporates the capacitive control surfaces. This is why it can respond to even a gentle press of the finger on one of its sensor surfaces. These are marked by white LEDs, and in KNX/EIB applications these are parameterisable, for example as status indication LEDs for the connected devices. A blue LED indicates the sensor's general readiness for operation.

In the Berker TS Sensor, the strip conductors and the sensor electronics are applied directly to the rear side of the glass plate. This immediate proximity to the control surfaces ensures extremely high switching reliability. And in some cases it can be connected to the KNX/EIB system via an KNX/EIB adapter without any additional wiring. With the product variants 1gang to 4gang, up to eight control surfaces can be assigned – i.e. up to eight functions with "one push-button" operation.

What is more, the Berker TS Sensor's product concept offers a wide range of design possibilities. Each TS Sensor can be produced to suit the specific application and the living area. The Berker TS Sensor is available in three variants: Basic, Customized and Manufacturing.

BASIC



Non-labeled

- Background colours polar white, aluminium, black
- Order from the catalogue

CUSTOMIZED



Labeled (Printed)

- Layout configuration on the Internet
- Free text entry, selection from predefined fonts, symbols
- Background colours polar white, aluminium, black
- Order using individual design number

MANUFACTURING



Designed individually

- Individual layout design
- Free choice of texts, fonts, symbols and colours
- Enquire with field sales staff / representative in your country

IMPRESSIVE VARIETY

THE PRODUCT VARIANTS

GLASS, POLAR WHITE

UNPRINTED (BASIC)

Product variant: Glass sensor	Order no.
1gang (see illustration)	1681 09
2gang	1682 09
3gang	1683 09
4gang	1684 09
Adapter ring	polar white

PRINTED (CUSTOMIZED)

Lettering/symbols	black
Design no.	169x 09 ..
(generated using Web Configurator)	



GLASS, ALUMINIUM

UNPRINTED (BASIC)

Product variant: Glass sensor	Order no.
1gang	1681 07
2gang (see illustration)	1682 07
3gang	1683 07
4gang	1684 07
Adapter ring	anthracite

PRINTED (CUSTOMIZED)

Lettering/symbols	black
Design no.	169x 07 ..
(generated using Web Configurator)	



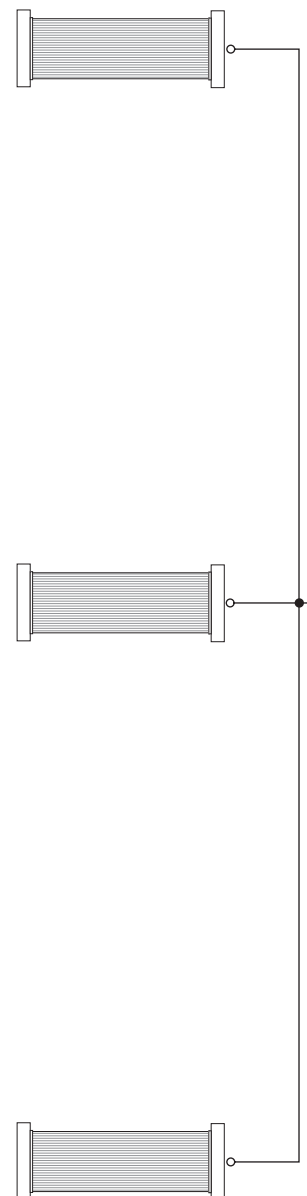
GLASS, BLACK

UNPRINTED (BASIC)

Product variant: Glass sensor	Order no.
1gang	1681 05
2gang	1682 05
3gang	1683 05
4gang (see illustration)	1684 05
Adapter ring	anthracite

PRINTED (CUSTOMIZED)

Lettering/symbols	white
Design no.	169x 05 ..
(generated using Web Configurator)	



ADDITIONAL REQUIRED COMPONENTS

- Power supply 8 to 30 V =
- Wall box 2gang for glass sensor Order no. 1870

- EIB adapter 2x8gang
or universal adapter

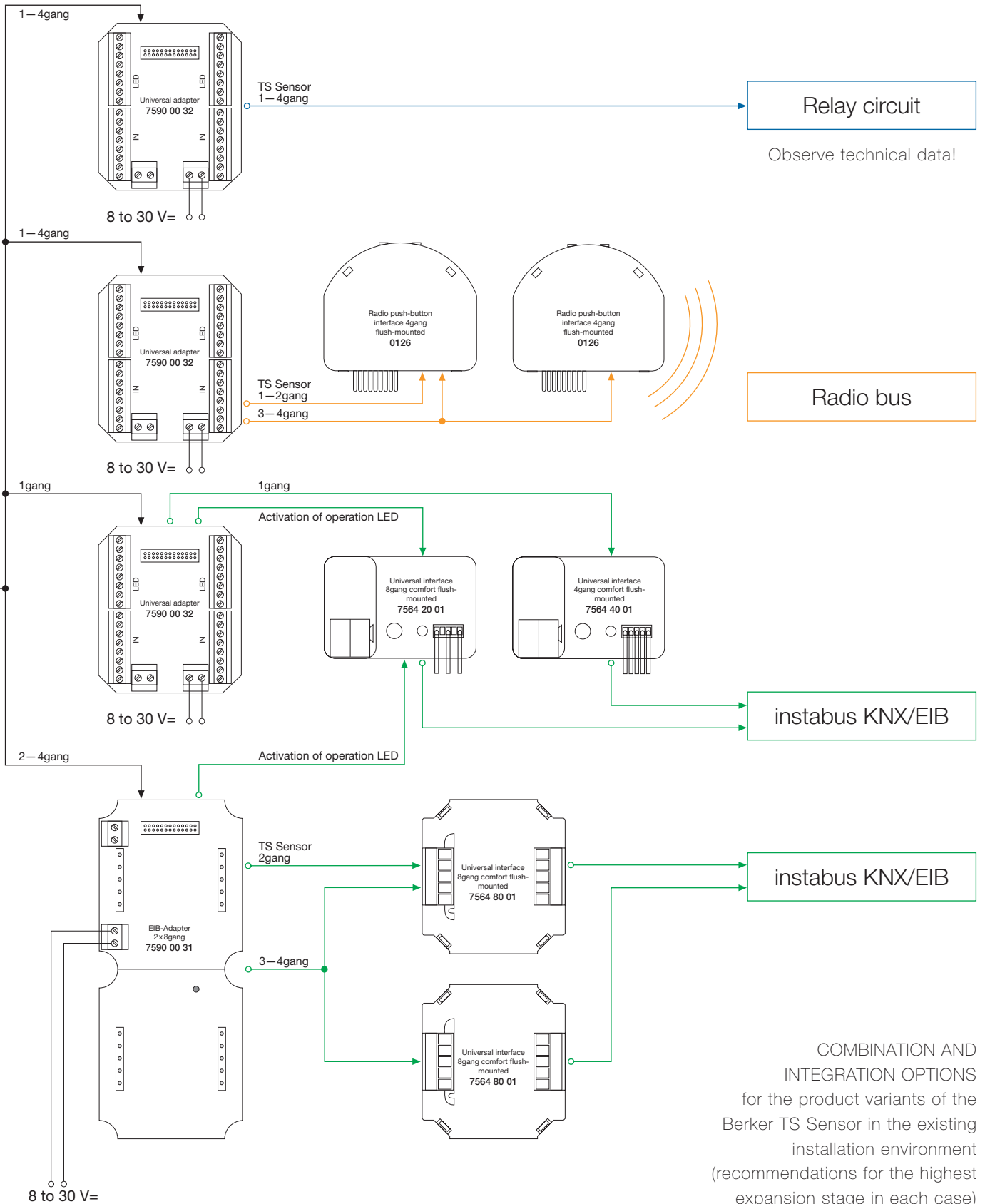
- Order no. 7590 00 31
- Order no. 7590 00 32

UNIVERSAL COMBINATIONS

One adapter and power supply each

Interfaces to the building automation systems

Existing installation



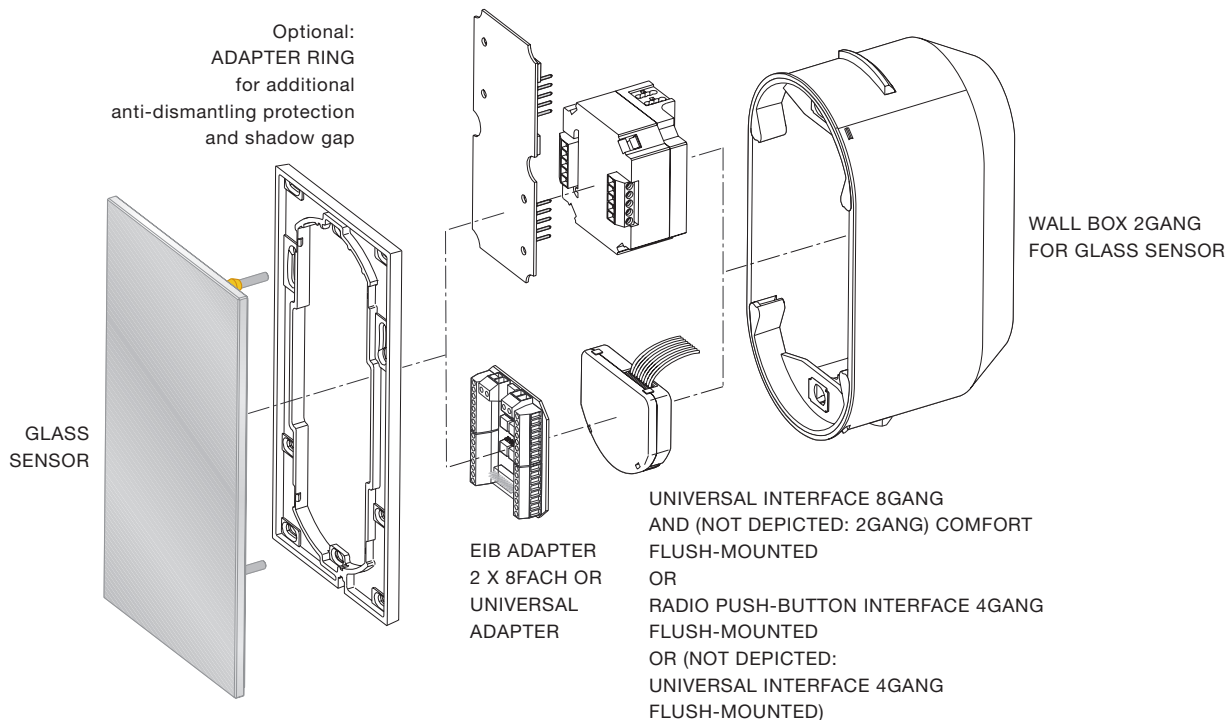
COMBINATION AND INTEGRATION OPTIONS for the product variants of the Berker TS Sensor in the existing installation environment (recommendations for the highest expansion stage in each case)

EASY INSTALLATION

KNX/EIB CONNECTION WITHOUT ANY WIRING – INSTALLATION WITHOUT TOOLS

REQUIREMENTS

Whatever application the TS Sensor is planned for, it must be ensured that sufficient space is available for the installation – even rough installation requires the use of a "wall box 2gang for glass sensor". This is because several devices, some of which are quite large, have to be housed in the wall box, as well as the cabling/wiring. In addition, the glass sensor requires a separate power supply, which in KNX/EIB applications can be wired-through from the non-choked output of the power supply RMD to the universal interface (yellow, white conductor).



CONNECTION (also see illustration to the left)

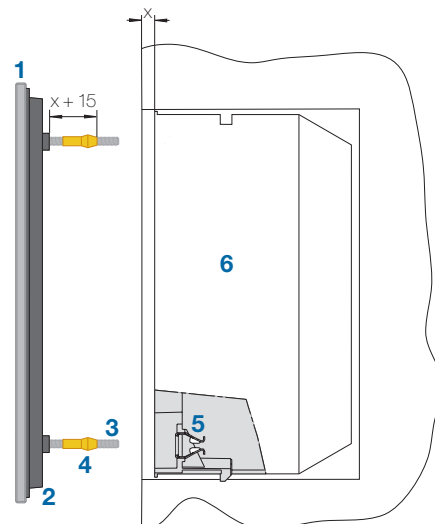
In KNX/EIB applications, additional outputs must be provided at the interfaces for activation of the LEDs, or an additional interface must be planned in. The "EIB adapter 2 x 8gang" can be plugged into up to two "universal interfaces 8gang comfort flush-mounted" without any additional wiring and fastened to them with screws. The "universal adapter" in contrast has screw terminals that an interface of the bus system can be wired to, for example. The power supply provided by the user must be connected to the adapter. Power is provided to the glass sensor via the supplied ribbon cable, which is used to connect the glass plate to the adapter. This way actions on the glass sensor can be transmitted over the interfaces to the bus system or directly to relay circuits.

INSTALLATION

The glass sensor is installed in the wall box (6) and seated on the wall together with the accessory components and interfaces. The supplied adapter ring (2) is intended for special installation conditions. It also provides additional anti-dismantling protection and gives the otherwise insubstantial glass plate some subtle contour. The clamp springs (5) in the adapter of the wall box, together with the retaining pins (4) on the setscrews (3), make it possible to install the glass plate (1) without tools. With deep-set wall boxes, the adjustable retaining pins can be used for surface adjustment of up to 20 mm.

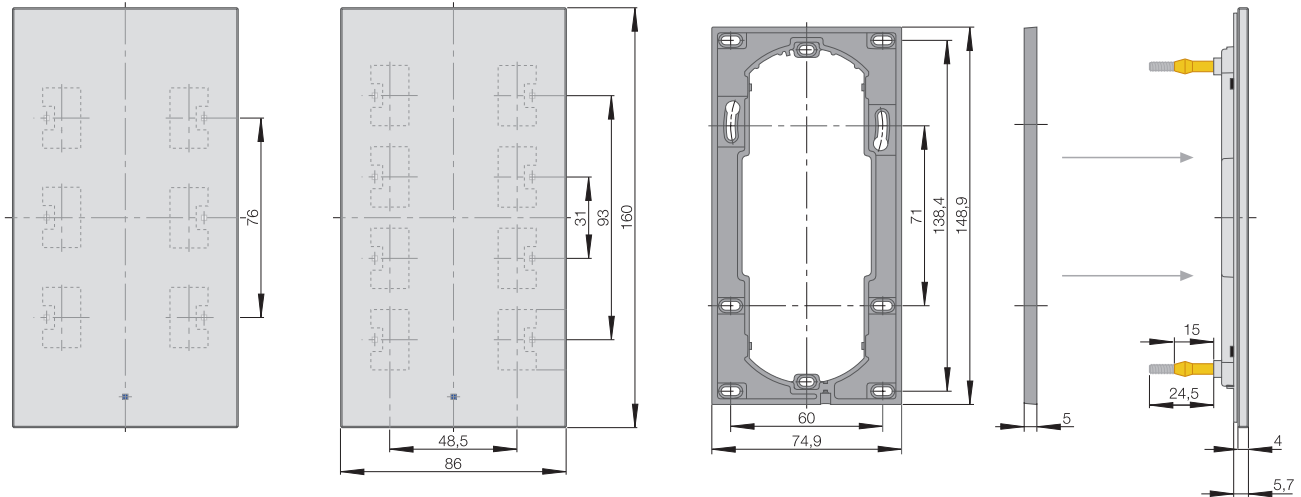
DISMANTLING

The dismantling aid with suction cups that is included in the scope of delivery can be used to pull the glass plate out of the clamp springs of the wall box relatively easily.



TECHNICAL DETAILS

SCALE DRAWINGS



TECHNICAL DATA

Power supply
 Switching voltage
 Switching current
 Loads are not directly switchable (only via interfaces)
 LED input voltage
 LED input current
 LEDs, parameterisable:
 - Status LEDs
 - Operation LED
 Protection class
 Dimensions of the glass plate (L x W x H)
 Overall height
 - seated on wall
 - with adapter ring
 Surface adjustment
 Phasing of the glass plate

8 to 30 V =
 max. 30 V =
 max. 1 mA

max. 5 V =
 max. 1 mA

with
 blue

IP 21 (protected against moisture from cleaning)
 160 x 86 x 4 mm

5.7 mm
 10.7 mm
 max. 20 mm
 0.5 mm; 45°

SCOPE OF DELIVERY

Glass sensor
 Adapter ring
 Ribbon cable (approx. 20 cm)
 Dismantling aid with suction cups

INDIVIDUAL CHARACTER

THE DESIGN POSSIBILITIES

BASIC

The product variants of the Berker TS Sensor can be ordered as a catalogue version in unlabeled form with a choice of three background colours: glass, polar white / glass, aluminium / glass, black.

CUSTOMIZED

Just as varied as customers' wishes are the ways in which the TS Sensor can be designed. This innovative product concept makes it possible to print lettering or symbolic labels on the rear side of the glass plate, where they are ideally protected against dirt, wear and damage.

This concept means, however, that the functions planned for each control panel are defined together with the customer before ordering. After that the selected lettering and symbols can no longer be changed, because the printing is generated uniquely at the time of production.

It is this simple:

1.

- Complete planning for the installations
- Functions of each control panel are fixed defined

2.

- Create an individual design using the Web Configurator at www.berker.com/ts-sensor
- Agree design with the customer
 - Save design on the Berker server

3.

- Order the Sensor
- Berker sends individual design number
 - Place order with wholesaler, Berker office or representative



MANUFACTURING

The Web Configurator already offers a wide range of customisation options. If, however, this should still not cover your customers' wishes, then Berker Manufacturing is what you need.

As far as it is technically feasible, the Berker TS Sensor can be manufactured with freely selectable printing and in all colours – even with logos, photographs or drawings as a background. Only the colours of the LEDs are predefined for technical reasons.

To arrange this, please address your enquiries to the regional field sales person for your area, or contact our local representative in your country.

BERKER – THE RIGHT WAY.

Do you know how to design rooms with exceptional ease and with a more individual style?
At Berker we have been working on that since 1919 – and we have found some highly attractive answers.

Berker switches and systems are in use all over the world, making life more beautiful, easier and more comfortable. We place the utmost emphasis on quality, design and innovation. This is confirmed by the numerous awards we have received both at home and abroad.

Berker is a leading supplier of high-quality electrical installations – from timelessly classic switch design through to intelligent building management systems. All new developments are created with just one thing in mind: the satisfaction of our customers. After all, we want you to feel at home with our products for decades to come.

Don't just let your life be guided by taste, but also by state-of-the-art technology,
with Berker - the right way.



Berker Switches and Systems

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