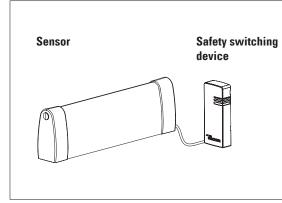
ExpertSystem XL sensors

XL-CP42Ax / XL-CP49Ax / XL-CP56Ax / XL-CP56Bx / XL-CP74Ax / XL-CP80Ax / XL-CP80Bx / XL-CP99Ax

Translation of the original manual with assembly and mounting instructions

Intended use



Pressure-sensitive edges are pressure-sensitive protection systems. They are specified in accordance with and meet the requirements of standard EN ISO 13856-2. Pressure-sensitive edges consist of a sensor and a safety switching device

This manual describes the assembly and mounting of sensors of the XL series. These sensors are active switching profiles. They are made from flexible rubber and mounted on metal mounting profiles. In accordance with the standard EN ISO 13856-2, the use of this sensor for pressure-sensitive edges requires the use of a safety switching device (signal processing and output switching device) specified by BBC Bircher AG and subjected to the prescribed conformity assessment procedure.

The specifications of the various sensor types are listed in their data sheets. These are to be consulted for the selection of a suitable sensor.

1 Safety instructions

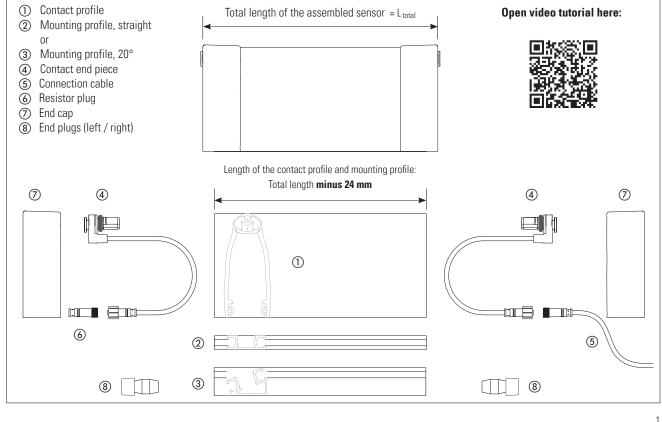
- Read these operating instructions thoroughly before putting the device into operation and keep them for future reference.
- Do not use this product other than for its specified application.
- The assembly, mounting, modification or retrofitting of sensors and the commissioning of pressure-sensitive edges may only be undertaken by persons who have completed relevant professional training and have been authorised to carry out such work.
- Pay attention to all local relevant electrical safety regulations!
- Failure to follow these safety precautions may cause damage to sensor or objects, serious personal injury, or death.
- It is the responsibility of the equipment manufacturer to carry out a risk assessment and to install the system, in compliance with applicable local, national and international regulations, safety standards, codes and laws as well as the Machinery Directive 2006/42/EC, should this apply.
- Always consider the safety functions of your applications as a whole, never just in relation to one individual section of the system.

Component overview

• The installer is responsible for testing the system to ensure it meets all applicable safety standards

Prior to starting installation or mounting, take the following safety precautions:

- Ensure that the device/installations cannot be switched on!
- · Ensure that the power supply is disconnected!
- · Cover any neighbouring live parts or remove them!
- · Before switching on the power supply, check the wiring as a precaution to prevent any damage or malfunction affecting the equipment connected to the product.
- If you are leaving the installation site, make sure that the product is working properly and has been installed correctly. Explain to the building owner/operator the correct way of operating the industrial door and the product.



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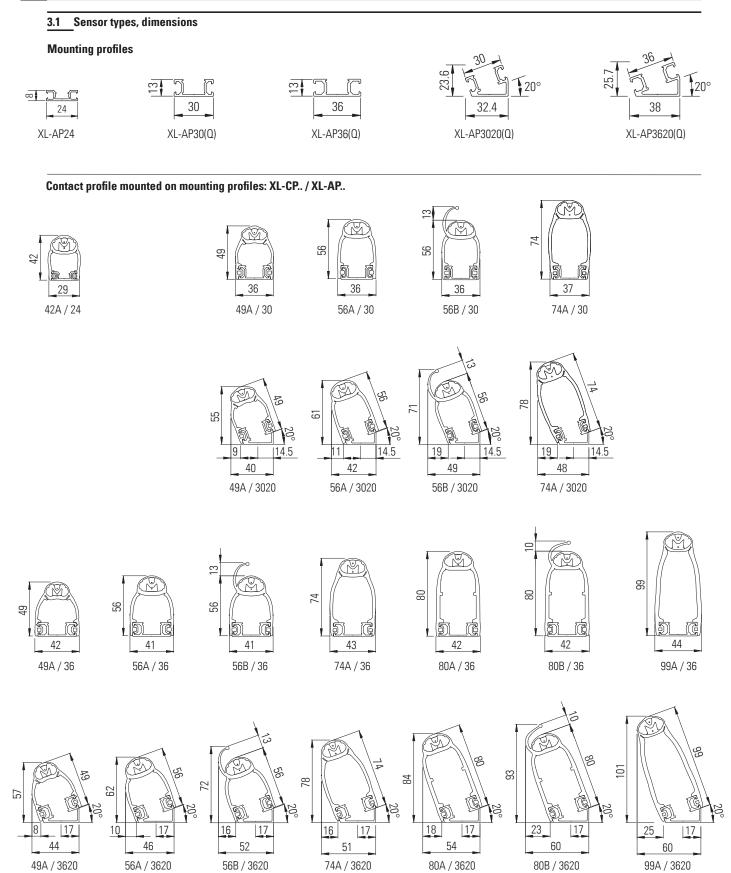
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XL sensors can be delivered in a variety of formats.

- As fully prefabricated sensors in the required length, with or without quick-fastening system and with cable or integrated XRF-TI radio transmitter as option – equally suitable for both customer-specific applications and the series production of industrial doors.
- 2. As a set in various standard lengths to be cut by the customer and for self-assembly of a sensor ideal for repairing doors quickly when carrying out service and maintenance in the field.
- 3. As individual components in larger packaging units suitable for self-assembly XL sensors in industrial door manufacture.

The **assembly** of sensors is described in Chapter 3 below; their **installation** is described in Chapter 4.

3 Assembly of ExpertSystem XL sensors



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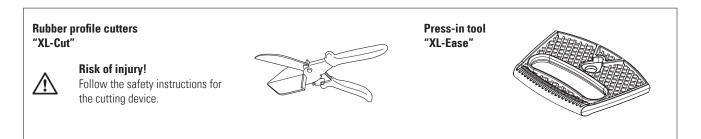
3.2 Delivery format and storage of contact profile components

XL contact profiles are delivered in coils inside sturdy cardboard boxes on pallets. If they are to be put into long-term storage, the contact profiles must remain inside the boxes and the boxes stored laid flat. Contact end pieces, connection cables and resistor plugs are packaged separately and must remain inside their original packaging until used. The components must be stored in a dry location. Storage temperatures should be between 0°C and 40°C.

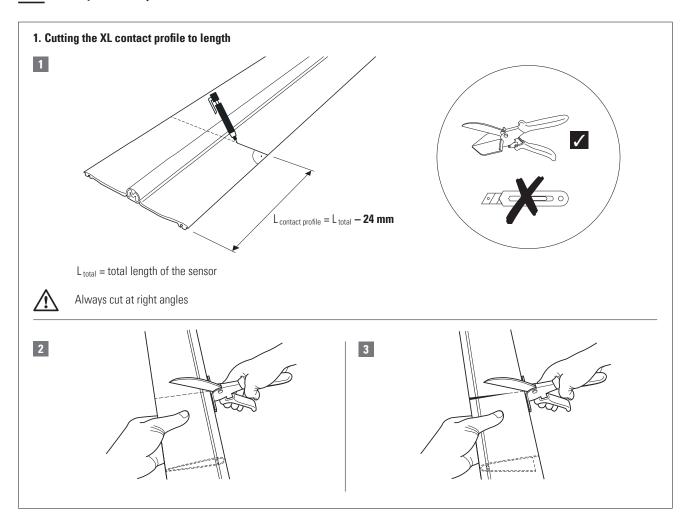
Contact profile coil in box

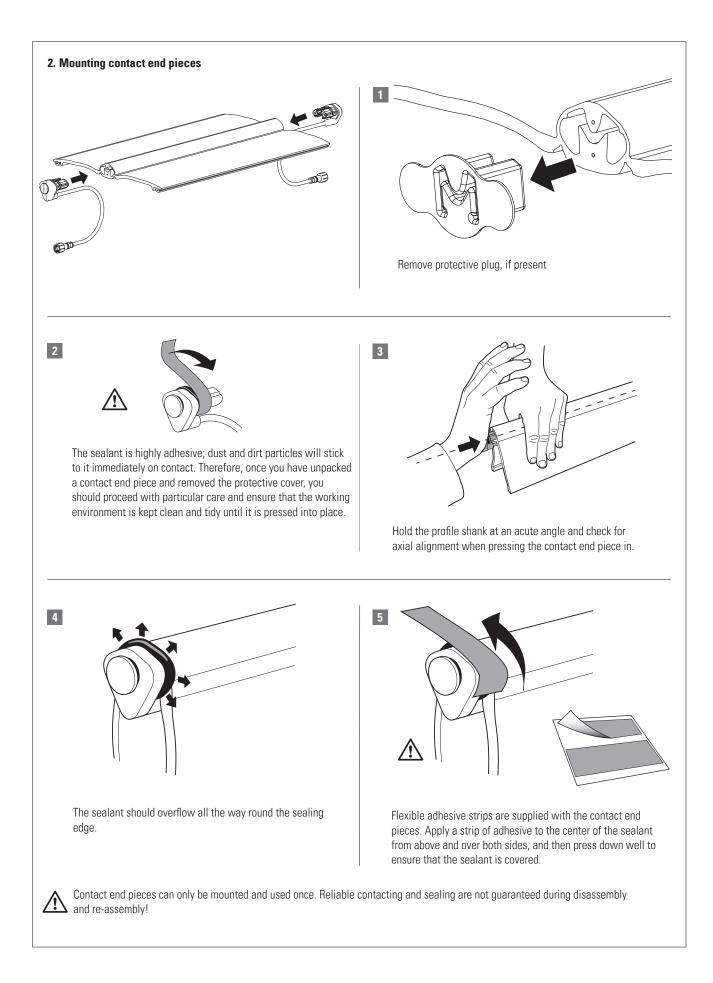
However, the components can be stored at temperatures from - 30 °C to + 60 °C for short periods of time, e.g. during transport.

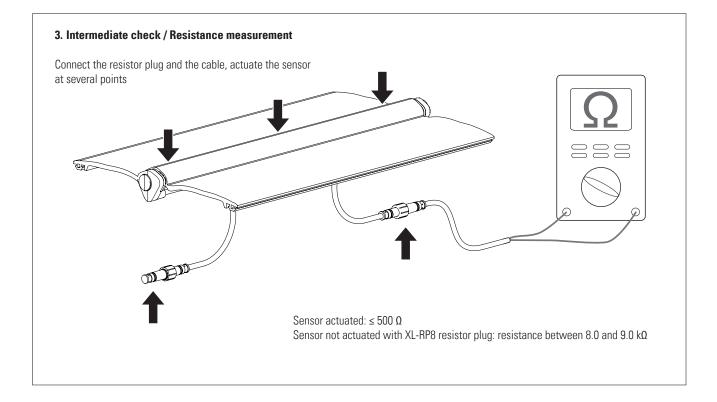
3.3 Tools and accessories



3.4 Assembly of contact profiles

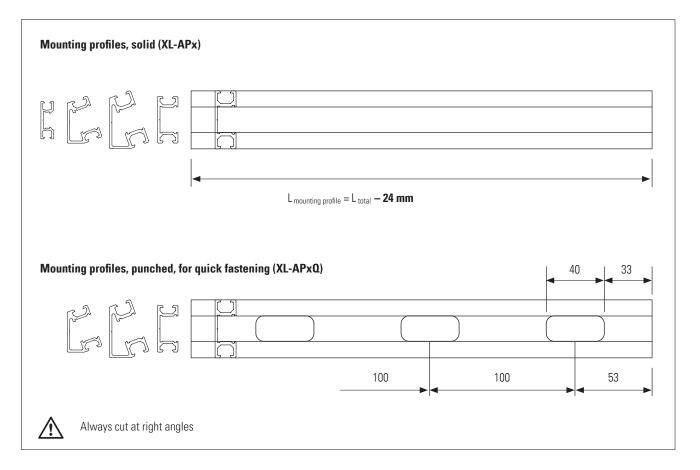






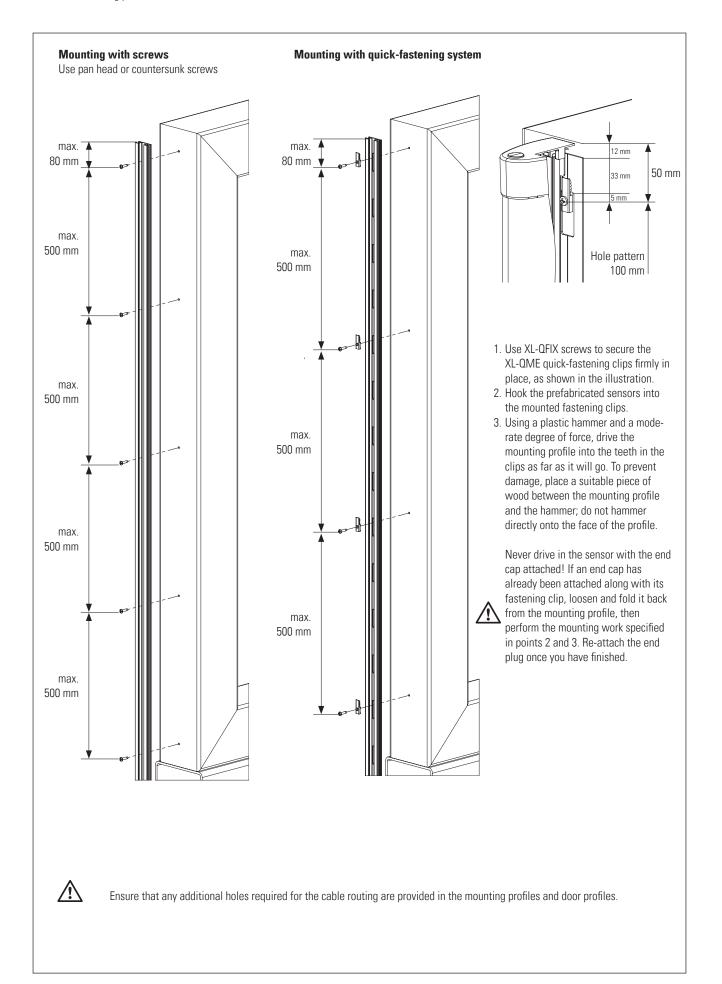
4 Mounting ExpertSystem XL sensors

4.1 Cutting the mounting profile to length

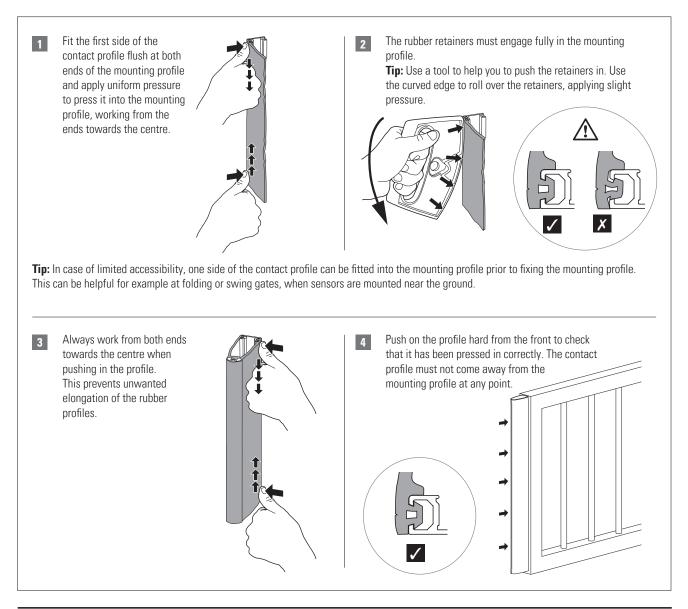


4.2 Mounting the mounting profile

The mounting profile must be mounted on a flat surface.



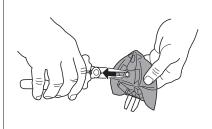
4.3 Mounting the contact profile onto the mounting profile



4.4 Mounting end caps

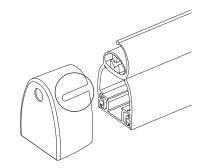
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For vertically mounted sensors: On the lower end cap, remove the nubs for the water outlet.

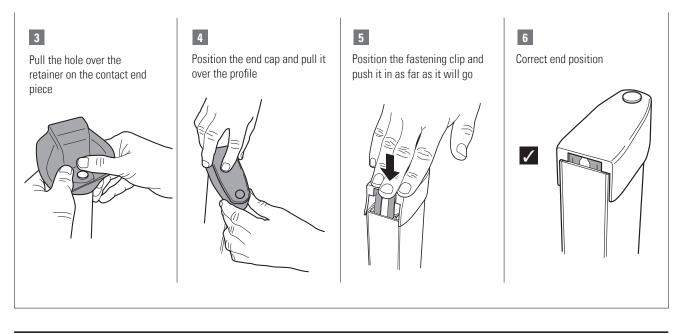


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When using sensing profiles with a lip: Remove the pre-stamped recesses for the lip on both end caps (paying attention to left/right).







4.5 Checking the sensor installation

Once mounting work has been completed, the sensor must be tested to ensure it is functioning correctly. Measure the resistances by actuating the sensor at several points:

Sensor actuated: \leq 500 Ω

Sensor not actuated with XL-RP8 resistor plug: resistance between 8.0 and 9.0 $\ensuremath{k\Omega}$

5 Commissioning

Once the sensor has been installed, it must be connected to the safety switching device.

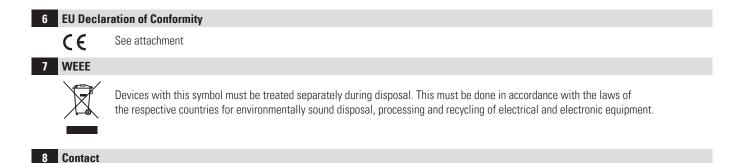


The operating instructions for the corresponding safety switching device

must be followed when making the connection as well as when carrying out subsequent installation and commissioning work.

5.1 Note for prefabricated XL sensors with integrated XRF-TI radio transmitter

If the XRF-TI radio transmitter is integrated, the operating instructions for this are enclosed with the sensor. The end of the sensor to which the integrated radio transmitter is connected has a corresponding marking underneath the mounting profile.



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