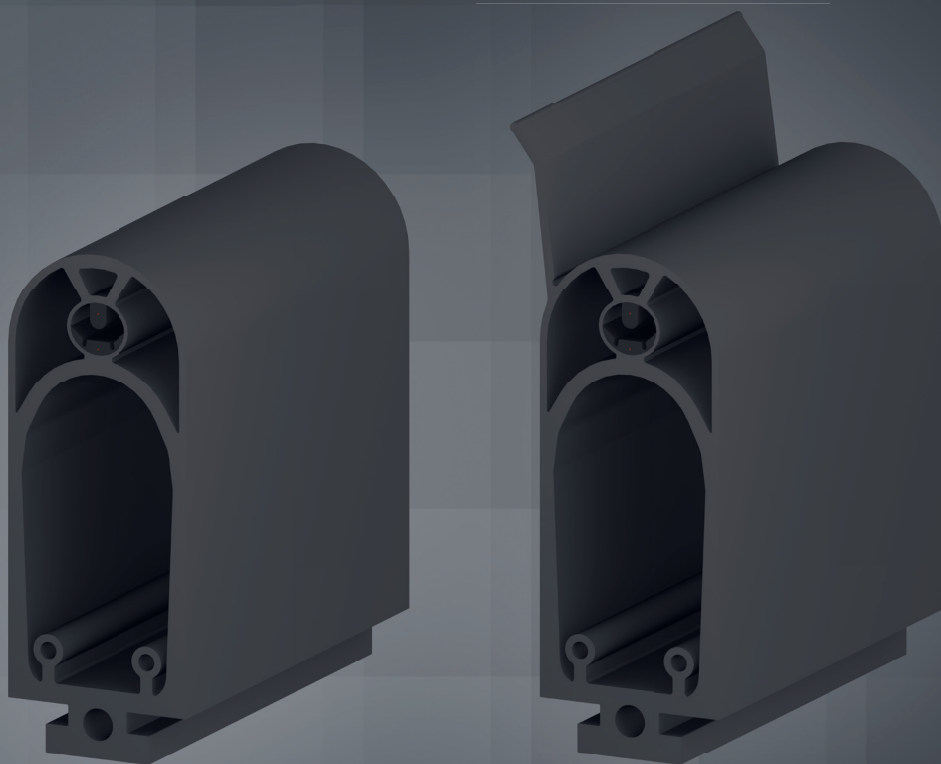


# SENTIR<sup>®</sup> *edge*

30.70



# Assembly instructions

Safety contact edges may only be assembled and installed by authorized personnel!



**Read all instructions first before installing / setting up the Product!**  
Do not drink any alcohol or take any drugs before or during the setup of the Product and follow the safety instructions carefully.

**Note Warnings and disclaimers, page 5 and following**



To avoid the risk of crushing while assembling or mounting, Safety gloves must be worn!



## 1. Cutting the safety-contact-edge

The safety-contact-edge is cut 24 mm shorter than the final length dimension to allow for the length of the end caps on each end. Make sure that the edge is cut clean and straight.

## 2. Preparing end caps

### a) Water drain plugs

For installations in contact with water, it is necessary to remove water drain plugs. If the edge is to be mounted horizontally, remove drain plugs from both ends. If the edge is mounted vertically, just remove the lower drain plug.

### b) Notch for the sealing lip

When assembling safety-contact-edges with weather-sealing lips, the end caps have to be notched where indicated to allow for the weather-sealing lip(s).

### c) Connection cable

Choose desired cable exit of end cap. If necessary, stitch through the marks.

## 3. Insert lock cap

Push in the lock cap including the held plug into the hollow spaces surrounding the switching chamber and push it tight to the cut surface of the safety contact edge.

## 4. Insert the contact plug

Remove the plug from its protective cap without touching the black sealing compound. Insert the plug into the electrical switching chamber of the safety-contact-edge. Make sure that the plug is pressed in tightly until the upper notch of the plug fits closely to lock cap.

## 5. Put on end caps

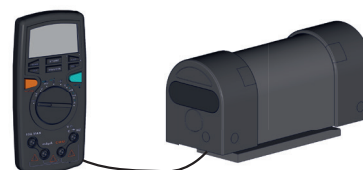
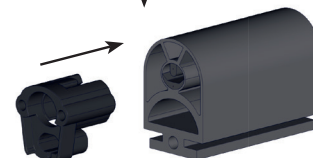
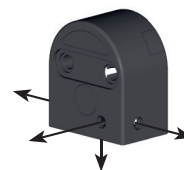
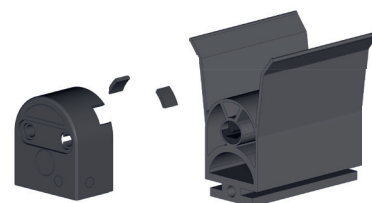
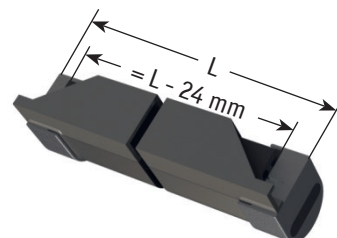
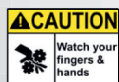
Put on end cap onto the edge and fasten it while pushing fixation clip into the given space until it clicks into place. For bigger contact edges an additional fixation clips is used to fasten end cap within the profile.

## 6. Electrical testing of the safety contact edge

Measure the contact edge with a multimeter. In rest position, the resistance value has to be  $8,2 \text{ k}\Omega \pm 500 \Omega$ . When edge is activated, the resistance should not exceed  $500 \Omega$ .

## 7. Cutting mounting rail

The aluminum mounting rail has to be as long as the final dimension of the contact edge.



$8,2 \text{ k}\Omega \pm 500 \Omega$

**ASO GmbH excludes all liability for damage caused of an incorrect assembly and installation of the contact edges!**

Due to packaging it might happen that the lip of the profile is undulated. This appearance will not affect the functionality at all. This kind of appearance will in any case not be a reason for complaints.

# Mounting instructions

Safety contact edges may only be assembled and installed by authorized personnel!



**Read all instructions first before installing / setting up the Product!**  
**Do not drink any alcohol or take any drugs before or during the setup of the Product and follow the safety instructions carefully.**

**Note Warnings and disclaimers, page 5 and following**



To avoid the risk of crushing while assembling or mounting, Safety gloves must be worn!

1. To facilitate installation of the safety contact edge, the aluminum profile may only be attached to even surfaces. If the safety contact edge is mounted in a bend, the radius must not be less than specified.



2. The aluminum profile must be fitted with countersunk screws or rivets. A diameter of 4 mm is sufficient. The holes of 4.5 mm must be evenly distributed over the entire length of the aluminum profile with distances between them not exceeding 300 mm. They have to be countersunk according to the screw.



3. Pan- or round-head screws should not be used. Otherwise the connecting wire in the aluminum profile could be damaged.



4. In order to lead the connecting wire through the aluminum profile, an 8 mm hole has to be drilled in the appropriate place. Carefully remove the burr from both sides.



5. In order to make fitting the safety contact edge easier, the aluminum profile and the safety contact edge should be sprayed with soapy water. Once the soap suds have evaporated the contact edge is firmly fitted in the aluminum profile. To prevent a subsequent slipping of the safety contact edge talcum powder, oils or similarly durable lubricants may not be used!

6. Safety contact edges with a c-base have to be clipped with one side into the aluminum profile. Then press in the complete c-base. Pulling or pushing the safety contact edge into the aluminum profile can cause damage to the contact edge and should be avoided at all costs.

7. Safety contact edges with collateral c-bases at first have to be clipped with one side into the aluminum profile. Then press in the other c-base. Pulling or pushing the safety contact edge into the aluminum profile can cause damage to the contact edge and should be avoided at all costs.

8. Safety contact edges with a t-base have to be pushed into the aluminum profile.



9. If the edge is not acting in a dry area it is important to provide a water drain. For this the marked water outlet is to be cut out. For vertical assembly in the lower endcap, for horizontal assembling in both endcaps.



**Any other methods of fastenings are only permitted on prior agreement with the manufacturer!**  
**When mounted at sectional doors the use of stopper (depending on profile) is recommended.**  
**ASO GmbH excludes all liability caused as a result of an incorrect assembly and installation!**

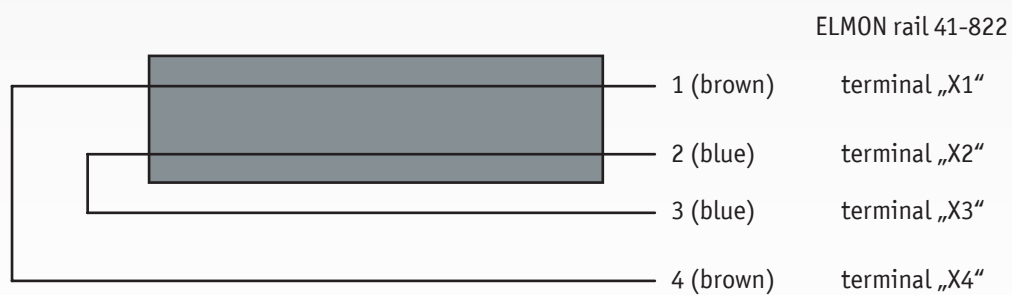


# Electrical connection

## 1. AS0 8k2



## 2. 4-wire



# Warnings and disclaimers

## 1. Preparations / set up

All SENTIR edges are inspected and tested before being shipped to ensure against damage. If the shipping container appears to be damaged, please notify the supplier immediately.

**WARNING:** Do not bend or fold as damage may occur.

## 2. Handling / Storage



To avoid the risk of crushing, Safety gloves must be worn!

### Recommended:

- Ideal storage and temperature -25C to 75C (or if different per edge)
- Ideal storage: Dry, clean and flat
- Transport SENTIR edges in the supplied packaging to where they are to be installed.

### Not Recommended:

- Significant bending of SENTIR edges
- Storing SENTIR edges vertically
- Extreme temperature fluctuations
- Outdoor storage
- Pulling SENTIR edges by the cable
- Stack up SENTIR edges without packaging

## 3. Maintenance



To avoid the risk of crushing, Safety gloves must be worn!

Installation and electrical work must be performed by authorized electricians.

- If damage occurs, such as brittle or torn rubber profile, non-tight switching chamber, insufficient contact resistance in the activated state or similar, the SENTIR edge must be replaced immediately.
- During the maintenance operations, disconnect the machine's prime mover before working in the SENTIR edge system. Observe all applicable electrical safety precautions.
- Cleaning: The profiles should be kept clean of deposits such as swarf (fine metallic fillings or shavings removed by cutting, grinding or any other mechanical process), debris, and other foreign materials to prevent damage or dead-zones. It is permissible to use warm water and a mild detergent to clean the surface of the area.
- Important: Do not use solvents
- Stop the machine, clean the profiles and allow them to dry off. Inspect the surface of the profile for the damage. Any damage that punctures the profile could let material or liquid in. It must be dealt with immediately. Check that all endcaps, corners and joints are secure and free from damage. Damaged parts must be replaced immediately.
- Test the profile operation. If these checks reveal any problem, do not allow use of the machine until the problems are rectified.

# Warnings and disclaimers

## Thorough examination and test:



To avoid the risk of crushing, Safety gloves must be worn!

Installation and electrical work must be performed by authorized electricians.

Recommended twice yearly or after damage. To be done by a person trained or qualified in electrical and mechanical engineering.

- Isolate the power source to the machine. Observe electrical safety precautions.
- Disconnect the SENTIR edge from the control unit
- Inspect the SENTIR edge and components thoroughly for mechanical damage.
- Test the SENTIR edge operations.
- If the inspections tests performed reveal any problems, do not allow use of the machine until they are rectified. Record the inspection and test in a written log.

The sequence of examination operations varies at different applications. The trained staff is responsible for the correct sequence of examination operating in terms of safety.

## TAMPERING WITH COMPONENT PARTS WILL INVALIDATE WARRANTY.

In the event of problems contact the supplier.

## 4. Precautions (General)



To avoid the risk of crushing, Safety gloves must be worn!

Installation and electrical work must be performed by authorized electricians.

- Always adhere to the local and national electrical code specifications when wiring SENTIR edge and other controls. Wire the SENTIR edge into controls as specified by the control manufacturer.
- The safety regulations issued by the Trade Association and those for electrical installation must be considered. Failure to comply with the safety regulations may result in severe or fatal injury or serious damage to property.
- Be sure to disconnect all power to the operator before installing the SENTIR edge.
- The gate or door must be in the fully opened or closed position before installing the SENTIR edge.
- Install correctly and test the SENTIR edge for proper operation.
- Do not operate equipment without a properly working and correctly wired SENTIR edge attached.

## 5. Disclaimer:

In no event will the manufacturer be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

If applied incorrectly, serious injury or death can occur.

The user must observe the safety instructions in this operating instructions manual, the country-specific installation standards as well as all prevailing safety regulations and accidents prevention rules.

The information contained in this operating instructions manual is provided without liability and is subject to technical modifications.

There are no residual risks, provided that the safety instructions as well as the instructions regarding mounting, commissioning, operation and maintenance are observed.

Exclusion of Liability: The manufacturer shall accept no liability for damages and malfunctions resulting from defective mounting or failure to comply with this operating instructions manual. The manufacturer shall accept no liability for damages resulting from the use of unauthorized spare parts or accessories.

Beyond that, the current version of ASO's General Terms and Conditions shall apply.



# Declaration of conformity

**EG - Konformitätserklärung** (gemäß Anhang II 2006/42/EG)  
**EC Declaration of conformity** (according annex II 2006/42/EC)  
**Déclaration de conformité CE** (selon annexe II 2006/42/CE)



Hiermit erklären wir, dass die  
nachfolgend bezeichneten Schaltleisten

We hereby declare that the following  
products of sensing contact edges

Par la présente nous déclarons que les  
produits suivants de la série barres  
palpeuses:

## **SENTIR edge 30.70**

## **SENTIR edge 30.70**

## **SENTIR edge 30.70**

zur Kombination mit den  
Sicherheitsschaltgeräten der Baureihe

for the combination with safety relays  
of the model range

en combinaison avec les relais de  
sécurité

**ELMON relay 31**  
**ELMON relay 32**  
**ELMON relay 34**  
**ELMON relay 35**  
**ELMON relay 39\***  
**ELMON relay 41\***

**ELMON relay 31**  
**ELMON relay 32**  
**ELMON relay 34**  
**ELMON relay 35**  
**ELMON relay 39\***  
**ELMON relay 41\***

**ELMON relay 31**  
**ELMON relay 32**  
**ELMON relay 34**  
**ELMON relay 35**  
**ELMON relay 39\***  
**ELMON relay 41\***

aufgrund ihrer Konzipierung und Bauart  
sowie in der von uns in Verkehr  
gebrachten Ausführung, den  
einschlägigen grundlegenden  
Sicherheits- und  
Gesundheitsanforderungen der  
nachfolgenden EG-Richtlinien und  
Normen entspricht:

satisfies the relevant essential health  
and safety requirements of the EC  
directives and standards listed below on  
account of its design and construction,  
as does the version brought to market  
by us:

de par sa conception et sa construction,  
ainsi que dans les modèles mis en  
circulation par nos soins, répondent aux  
exigences de base pour la sécurité et la  
santé des directives et normes CE  
suivantes :

**EN ISO 13856-2**  
**EN 12978**  
**EN ISO 13849-1**  
**2011/65/EU; 2015/863/EU RoHS**  
**(EG) Nr. 1907/2006 - REACH**

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**(EG) Nr. 1907/2006 - REACH**

\*EG-Baumusterprüfung  
Notified Body 0044  
TÜV Nord Cert GmbH  
Langemarckstraße 20  
D-45141 Essen  
Nr. 44 205 13031830

\*EC type-examination  
Notified Body 0044  
TÜV Nord Cert GmbH  
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D-45141 Essen  
No. 44 205 13031830

\*Examen CE de type  
Notified Body 0044  
TÜV Nord Cert GmbH  
Langemarckstraße 20  
D-45141 Essen  
N° 44 205 13031830

Diese Konformitätserklärung entbindet  
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Maschine nicht von seiner Pflicht, die  
Konformität der gesamten Maschine, an  
der dieses Produkt angebracht wird,  
entsprechend der EG-Maschinen-  
richtlinie sicherzustellen.

This declaration of conformity does not  
relieve the designer / manufacturer of  
the machine from his obligation to  
ensure that the conformity of the entire  
machine to which this product is  
attached satisfies the corresponding EC  
directive.

Cette déclaration de conformité ne  
délie pas le constructeur / fabricant de  
la machine de son obligation d'assurer  
la conformité de l'ensemble de la  
machine à laquelle ce produit est  
apposé selon la directive CE.

**Hersteller und**  
**Dokumentationsbevollmächtigter**  
**ASO GmbH**  
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D-59557 Lippstadt  
Lippstadt, 15.06.2021

**Manufacturer and attorney of**  
**documents**

**Fabricant et agent de documentation**

Helmut Friedrich  
- Geschäftsführer - CEO - Gérant -



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DOC0000522 Technical data Rev 00  
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