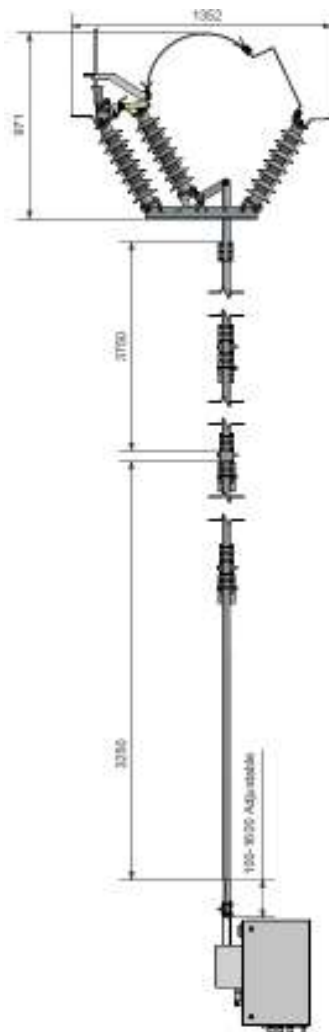


**Adjustments and maintenance of railway switches for the
finnish railways**



**Before starting the installation of the switch, read all these
instructions to get an overview of the scope of work**

Manufacturer

AB GEVEA
Box 12043
S-600 12 Norrköping
Sweden
Phone: +46 11 184800
Fax: +46 11 182350
E-mail: info@gevea.se
www.gevea.se

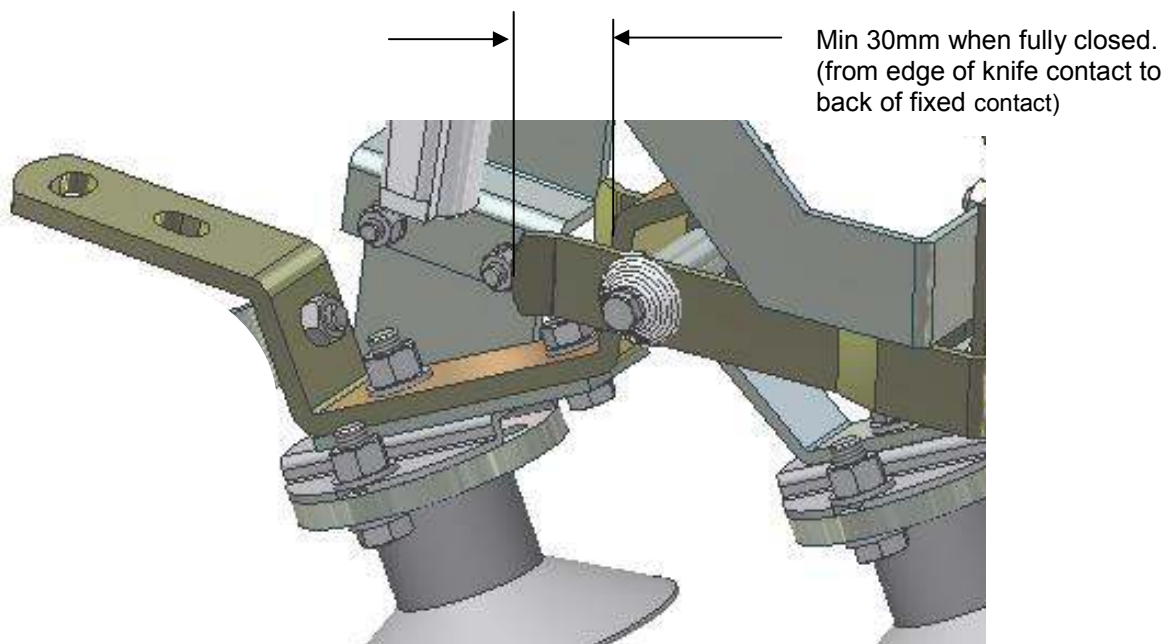
Distributor Finland

EUROLAITE OY
Höyläämötie 11 A
FI-00380 HELSINKI
FINLAND
tel - +358 20 155 7444
fax - +358 20 155 7445
e-mail - eurolaite@eurolaite.fi
www.eurolaite.fi

Before the installation starts, check that the switch not has been damaged during transport or storage.

1. Final checking of the switch

Check the following dimensions after completing the installation of the switch

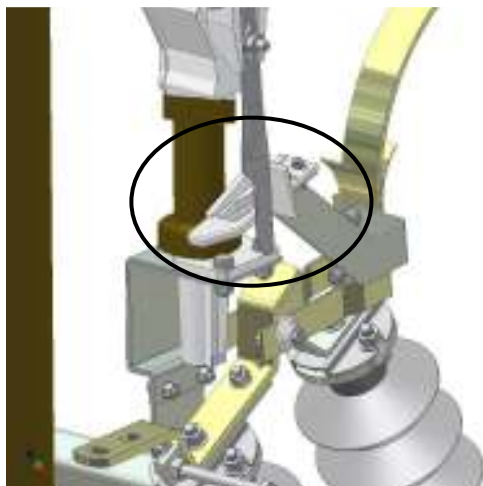


After the installation and checking of the adjustments is completed, operate the switch a few times and check that it maintains the settings

Make sure that all bolts and nuts are tightened.

2. Operation

Before the operations check that the switch is intact and nothing is broken or loose.



A. (If loadbreak head)

Check that the hook on the rocking contact and the lever on the loadbreak head are engaged

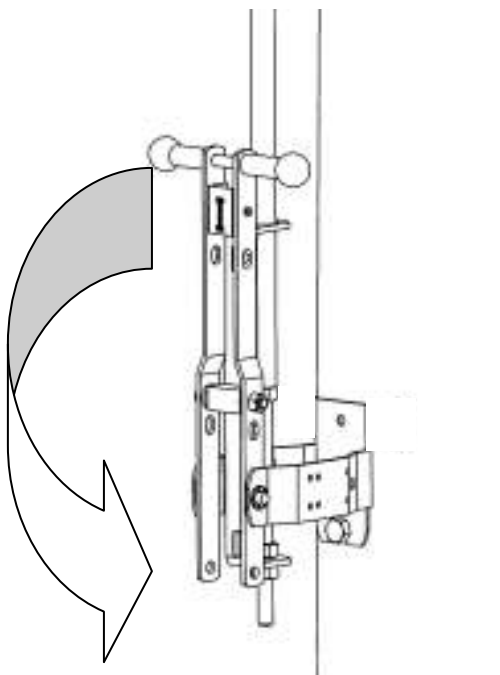
B. (If handle operated)

Before operating the switch make sure you have a firm hold with both hands on the operating handle

If the switch is installed in accordance with these instructions the opening is made by turning the handle 180° downwards.

Closing the switch is made by turning the handle 180° upwards.

Operate the switch positively and smoothly but without using unnecessarily high force that could damage the switch



After the operation check the visible break if the switch is in open position.
If the switch is closed check that contact is fully closed.

3. Maintenance

MAINTENANCE INSTRUCTIONS

Maintenance must only be carried out in accordance with Company Safety Rules and CoPs and appropriate PPE should be worn.

When maintaining the switch check the following parts on the switch

1. Wash or wipe the insulators. Inspect for damages, replace where necessary.
2. With the switch in open position, inspect the contacts. Wipe them clean and check for signs of wear or burning. Damaged contacts must be replaced.
Smear the contact faces with a light coating of contact lubricant.
Recommended type is Statoil Elfett that can be sourced from Gevea.
3. Lubricate all moving parts in the phase elements, operating lever and operating handle with approved grease.
4. Check tightness of all fixing bolts, the operating tube nuts (note that some of them are locknuts and shall not be tightened stiff), and the nuts for the phase coupling tube attachment to each phase element and the bolts and nuts in the operating handle.
5. Check the interrupter heads (optional) -if signs of burning or arcing-replace.
6. Finally check the vital contact adjustments and per instruction, particularly the minimum isolating gap of 450mm must be obtained

Spares

All parts and components on the switch can be supplied as spares. When ordering identify clearly which part that is requested.