INSTALLATION INSTRUCTION PHASE BREAK NSR 25 Version 2018/02





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13. Check splice alignment (above 120 km/h)



14. Attach arcing horns





Caution! Danger of accident if these points are not observed:

- The contact wire and messenger wire must lay vertically on each other at the installation location. Otherwise the hangers are not under continuous tension and optimal functioning is impossible. In extreme cases it may even occur that the current collector hooks into the arcing horn and damage the phase break.
- The screws at the contact wire clamps must be retightened two times. Otherwise the teeth do not grip the contact wire material completely. The contact wire could therefore slide out later and falling parts could cause damage of material or even injure people.
- The arcing horns of the phase break must be correctly adjusted as described. Otherwise shocks might damage the phase break or the carbon sliders.
- All screws and nuts must be tightened correctly according to the description. They could otherwise become loosened by vibration and cause malfunction of the overhead line.
 Should the protective plastic finish of PTFE of one of our insulators be so severely damaged, either that the glass fiber inside is visible or that humidity and dirt can obviously
- penetrate, the insulator must be replaced immediately. Otherwise a high-voltage flash-over could damage the insulator and the overhead line.
 Arthur Flury AG rejects responsibility for any damage caused by not observing this installation
 - instruction.

Maintenance and Service

A well adjusted phase break of Arthur Flury AG does not require any maintenance for a long period of time.

Insulator

In case of possible wear (max. 2 mm) the insulator rod can be turned by 1 mark at full mechanical load as follows:

Use a cylinder wrench to turn the steel sleeves, first on one side and then on the other side, each by 1 mark in the same direction. Tighten screws if they have been loosened by the turning process. The insulator can be used in 4 positions at most. After that it must be replaced.



The insulator must be replaced if the GRP rod becomes visible through damage of the PTFE cover. The PTFE cover of the insulating rod is cleaned well enough by rain water under normal circumstances. In case of exceptionally strong dirt accumulation (for instance from frequent diesel traffic) we suggest cleaning the insulator every 2-3 years with our Special Cleaner for High Voltage Insulators (order no 655.168.000).

Recommendations and Trouble shooting for NSR25

Running behaviour:

The phase break must provide a constant performance for passing current collectors and remain stable. Observe the suspension while current collectors are passing. If one of the spring droppers should be blocked it has to be replaced immediately.

