



SUMMARY OF ASSESSMENT OF THE TRAM SWITCH MACHINE TSH (ELEKTROLINE A.S., PRAGUE, CZECH REPUBLIC)

The concluding result of the assessment of the **Tram Switch Machine (TSH)**, as documented in the "Assessment of the Tram Switch Machine (TSH) for SIL 3 classification in accordance with EN 61508" (Report No. 2014/3/08) is as follows:

- The **Tram Switch Machine (TSH)** is a point machine to be used in light-rail and tramway networks. It fulfils the requirements of a SIL 3 system if it is controlled by a SIL 3 superior control system like the Tram Switch Control System (TSC 3) or similar and if the Technical and Business Conditions as well as the Maintenance Guide as accomplished by Elektroline a.s. and the Report no. 2014/1/08 (Assessment of the Tram Switch Control System TSC 3 for SIL 3 classification), are taken into account.
- The assessment on the Tram Switch Machine (TSH) was based on the documentation made available by Elektroline and as listed in chapter 5.1 of report no. 2014/3/08.
- The assessment took into account the mechanical tests performed by the Výzkuný Ústav Železniční, a.s., VUZ Testing Laboratory, ZL RST Section (Rolling Stock Section), Novodvorská 1698, 142 01 Prague 4 – Braník. Additional mechanical tests did not take place.

Braunschweig, 27th October 2008

Dr.-Ing. Hans Günther
Approved assessor for signalling and safety systems