



Product Service

# CERTIFICATE

No. Z10 027759 0008 Rev. 00

**Holder of Certificate:** Knick Elektronische Messgeräte  
GmbH & Co. KG  
Beuckestr. 22  
14163 Berlin  
GERMANY

**Certification Mark:**



**Product:** Railway Vehicles - Equipment  
Universal Speed Signal Doubler P16800

**Model(s):** P16812P31/[2,4,8]0, P16822P31/[2,4,8]0

**Parameters:**

Safety capability:	SF1: Signal transfer from input to output SIL2, FFR < $3 \cdot 10^{-7}/h$ SF2: non-interacting input SIL 4, FFR < $10^{-11}/h$
Input:	10 ... 33.6 VDC or 6/7 ... 14/20 mA
Nominal aux. voltage:	24 VDC
Temperature class:	OT4 / ST1 / ST2

**Tested according to:** EN 50129:2018  
EN 50155:2021

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** The Report is mandatory part of the certificate.  
**KB104667G**

**Valid until:** 2030-04-30

**Date,** 2025-05-02

( Alfred Beer )