

## Declaration for trip direction change counter

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Revision number : 3  
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Requirements : Lifts Directive 2014/33/EU  
Project no. : P160397-01

### 1. General specifications

Name and address manufacturer : ZIEHL-ABEGG SE  
Heinz-Ziehl-Strasse  
74653 Künzelsau  
Germany

Description of the reviewed component : Safe trip direction change counter

Frequency inverter type : Type series ZETADYN and ZAdyn

Data of examination : April 2011 - June 2011, May 2016, November 2016

Examination done by : A. van den Burg

Laboratory : None

## 2. Description of the component

We herewith declare that the trip direction change counter fulfils all requirements for application with below mentioned certificates:

- NL10-400-1002-130-01 Brugg CTP 8,1 G2 coated suspension ropes for lifts.
- NL15-400-1002-130-02 Brugg CTP 6.5 G2 coated suspension ropes for lifts.
- NL12-400-1002-166-01 Contitech Polyrope 25-6x2,0 Lift suspension means.
- KP 195/2 Drako PTX 300 coated suspension ropes for lifts.

For applications with comparable conditions the counter can also be used with other lift suspension means.

This declaration is based on ZIEHL-ABEGG document "Sicherer Zähler für Seil Brugg SDR 8,1 mm" of June 21, 2011 as described below.

The counter is part of the ZIEHL-ABEGG type ZETADYN and ZAdyn frequency inverter. It consists of two digital counters, the counter "A" (Parameter "TD\_DRV") and the counter "B" (Parameter "TD\_CNT"), both counters only count the number of changes in direction, successive trips in the same direction are counted as one trip only.

Counter "A" is used to collect the total number of trips, it is not possible to reset this counter also not by a reset of the frequency inverter nor by removing its power supply.

Counter "B" is used to limit the amount of allowed trips, changing of allowable maximum number of trips or resetting is protected by a password, this password can be defined for each controller separately.

Approximately one year before the allowed number of trips is reached, the display of the frequency inverter shows the number of trips that are left until the lift will be blocked (the ropes shall be changed before).

The estimation of the time that is left is based on the history of lift use and is updated after each trip.

When the maximum number of trips is reached, the inverter is setting the fault-output and an error message is shown in the display.

The inverter will not accept new trip commands until counter "B" has received a reset.

To be able to exchange the ropes, after each restart of the inverter, one additional trip is possible.

Every reset of counter "B" is registered in memory in order to be able to check the history.

When the frequency inverter is interchanged by a new one, the contents of counter "B" must be copied from the old inverter into the new one.



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