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EC - Declaration of conformity

CE

Manufacturer: DIS Sensors bv, Oostergracht 40, 3763 LZ, Soest, The Netherlands

Device: Inclination & acceleration sensors, **QG65N2 CAN series**

Declaration: Manufacturer declares, on his sole responsibility, conformity of this device according to all CE regulations / directives / standards specified below, if the device is connected to an approved CAN controller only and the shield of the CAN controller is connected to earth..

EMC directive: Electromagnetic Compatibility directive 2014/30/EU

EMC standards:

- EN 61000-6-2 (2005) + AC(2005)
  Generic EMC immunity standard for industrial environments
- EN 61000-6-3 (2007) + A1 (2011) + AC(2012)
  Generic EMC emission standard for light industrial environments
- EN 61326-1 (2013)
  EMC immunity & emission standard for electronic equipment. for measurement, control and laboratory use
- EN 50121-4 (2006) + (2015)
  EMC immunity & emission standard for Railway applications
- EN 50121-3-2 (2016)
  EMC immunity & emission standard for Railway applications

EMC Automotive:

- UN agreement Regulation 10 (Rev.5)
  Generic EMC immunity & emission standard for automotive devices
- EN ISO 13766-1 (2018)
  EMC immunity & emission standard for earth moving machinery
- EN ISO 14982 (2009)
  EMC immunity & emission standard for tractors, agricultural, forestry, landscaping and gardening machinery
- EN 13309 (2010)
  EMC immunity & emission standard for construction machinery

RoHS: Directive 2011/65/EU, on the restriction of the use of hazardous substances in electrical and electronic equipment (RoHS II), and the amendment 2015/863/EU (RoHS III) (acc. to EN IEC 63000:2018)

REACH: REACH European Regulation 1907/2006/EC

Functional Safety: According to European Standard EN ISO 13849-1 we can declare:

- The firmware of this device is developed according to EN ISO 13849 and meets the SRESW requirements for both ‘PL a to d’ and ‘PL c or d’
- MTTFd > 100 year
- Diagnostic Coverage (DC) = 49%
- This device is not a safety device. It does not meet any SIL/PL level. To achieve a certain safety-level the device can be used redundant. The above mentioned safety figures can then be used by the user to calculate whether this device can be used to fulfil user’s safety requirements.

ISO: Quality system EN ISO 9001

Date: October 2020, updated October 20222

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