DIS Sensors bv
Oostergracht 40
3763 LZ Soest
The Netherlands

T +31(0)35 - 603 81 81
F +31(0)35 - 603 81 80
M info@dis-sensors.nl
W www.dis-sensors.com

EC - Declaration of conformity

CE

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

Device: Inclination & acceleration sensors, **QG65N / QG76N CANS series SIL2 / PLd**

Declaration: Manufacturer declares, on his sole responsibility, conformity of this device according to all CE regulations / directives / standards specified below

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 12895 (2000) + (2015)
  EMC immunity & emission standard for Industrial trucks
- 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
- DNV Standard for Certification No. 2.4 (2006) (EMI part only)
  EMC immunity & emission standard for Offshore instrumentation and automation equipment (Det Norske Veritas)
- GL VI-7-2 (Part 7 chapter 2 (2012)
  EMC immunity & emission standard for Offshore electrical/electronical equipment & systems (Germanischer Lloyd)
- IEC 61326-3-1 (2008)
  EMC immunity standard for Electrical equipment for safety-related systems for General industrial applications, measurements, control and laboratory use.
- IEC 61000-6-7 (2015)
  EMC immunity standard for Electrical equipment for safety-related systems in industrial locations

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

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Functional Safety: According to European Directive 2006/42/EC of the European Parliament and of the Council on Machinery

- EC Type-Examination by **Notified Body DEKRA testing and Certification GmbH**
  Name: DEKRA testing and Certification GmbH
  Adress: Handwerkstraße 15, D-70565, Stuttgart, Germany
  Identification Nr.: 0158
- EC Type-Examination **Certificate** no. 4821024.21001
- Certificate valid until June 14th 2026

According to European Standard EN ISO 13849

- **Performance Level PLd**
- Hardware Architecture CAT.3
- System Type B
- Proof test interval 20 years

According to European Standard IEC 62061

- **Safety Integrity Level SIL CL 2**
- Hardware Architecture HFT = 1
- System Type B
- Proof test interval 20 years

Standard usage (ambient temperature -40°C up to +45°C)

- MTTFd: 447 year
- DCavg: 93%
- CCF: 70pt
- SFF: 98%
- PFHd: 14E-09 /h

High Temperature usage (ambient temperature up to +85°C)

- MTTFd: 73 year
- DCavg: 93%
- CCF: 70pt
- SFF: 98%
- PFHd: 91E-09 /h

ISO: Quality system EN ISO 9001

Date: This device is CE-marked August 2016, updated June 2021

M. van Andel, Product Manager



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