

EC - Declaration of conformity



- 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/electronic 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

- 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
Address: 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

