

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:	<ul style="list-style-type: none">• EN 61000-6-2 (2005) + AC(2005) <i>Generic EMC immunity standard for industrial environments</i>• EN 61000-6-3 (2007) + A1 (2011) + AC(2012) <i>Generic EMC emission standard for light industrial environments</i>• EN 12895 (2000) + (2015) <i>EMC immunity & emission standard for Industrial trucks</i>• EN 61326-1 (2013) <i>EMC immunity & emission standard for electronic equipment. for measurement, control and laboratory use</i>• EN 50121-4 (2006) + (2015) <i>EMC immunity & emission standard for Railway applications</i>• DNV Standard for Certification No. 2.4 (2006) (EMI part only) <i>EMC immunity & emission standard for Offshore instrumentation and automation equipment (Det Norske Veritas)</i>• GL VI-7-2 (Part 7 chapter 2) (2012) <i>EMC immunity & emission standard for Offshore electrical/electronic equipment & systems (Germanischer Lloyd)</i>• IEC 61326-3-1 (2008) <i>EMC immunity standard for Electrical equipment for safety-related systems for General industrial applications, measurements, control and laboratory use.</i>• IEC 61000-6-7 (2015) <i>EMC immunity standard for Electrical equipment for safety-related systems in industrial locations</i>
EMC Automotive:	<ul style="list-style-type: none">• UN agreement Regulation 10 (Rev.5) <i>Generic EMC immunity & emission standard for automotive devices</i>• EN ISO 13766:1 (2018) <i>EMC immunity & emission standard for earth moving machinery</i>• EN ISO 14982 (2009) <i>EMC immunity & emission standard for tractors, agricultural, forestry, landscaping and gardening machinery</i>• EN 13309 (2010) <i>EMC immunity & emission standard for construction machinery</i>
RoHS & RoHS II:	RoHS European Directive 2002/95/EC RoHS II European Directive 2011/65/EU (EN 50581:2012)
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 **Certificate** no. ZP/C015/16 by DEKRA EXAM GmbH
- Certificate valid until 2021-08-04

According to European Standard EN ISO 13849

- **Performance Level PLd**
- Hardware Architecture CAT.2
- System Type B
- Proof test interval 20 years

According to European Standard IEC 62061

- **Safety Integrity Level SIL CL 2**
- Hardware Architecture HFT = 0
- 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 August 2020

M. van Andel, Product Manager

