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EC - Declaration of conformity

CE

Manufacturer: DIS Sensors bv

Device: Inclination & acceleration sensors, **QG40N Tilt switch SIL1 PLc series**

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
- EN 50121-3-2 (2016)
  EMC immunity & emission standard for Railway applications
- IEC 61326-3-1 (2008)
  EMC immunity standard for Electrical equipment for safety-related systems for General industrial applications, measurements, control and laboratory use.

RoHS & RoHS II: RoHS European Directive 2002/95/EC & RoHS II European Directive 2011/65/EU

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

According to European Standard EN ISO 13849

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

According to European Standard IEC 62061

- **Safety Integrity Level SIL CL 1**
- Hardware Architecture HFT = 0
- System Type B
- Proof test interval 20 years

- MTTFd: 433 year
- DCavg: 73%
- CCF: 65pt
- SFF: 93%
- PFHd: 1,5E-07 /h

ISO: Quality system EN ISO 9001

Date: This device is CE-marked November 2017

M. van Andel, Product Manager



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