

**Danfoss A/S**6430 Nordborg
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Fax: +45 7449 0949**MANUFACTURER'S DECLARATION****Danfoss A/S**
DCS - Sensing Solution

declares under our sole responsibility that the

Product category: Pressure Transmitter and Pressure Switch

Type designation(s): MBS1200, MBS1250, MBS1300, MBS1350 (with dual output / pressure and temperature), MBS1600, MBS1650, MEP 2600 and MEP 2650. This declaration covers MTTFd and B10d calculation and evaluation with the pressure ranges between 0-6 bar to 0-600 bar.

Covered by this declaration is in conformity with the following directive(s), regulations(s), standard(s) or other normative document(s), provided that the product is used in accordance with our instructions.

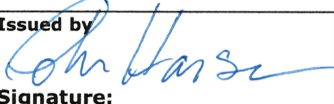
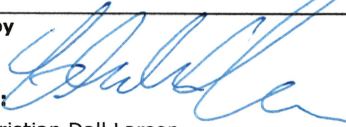
Conclusion The MTTFd of the above mentioned designations is calculated to be better than 100 years.
The B10d value, for full scale pressure cycles, is greater than 10 million.
The calculation and cycle test are valid at 100 °C.

MTTFd derivation The MTTFd value is estimated for the electronic components used in above mentioned designations with the following output signals.
Absolute voltage, ratio metric output and 4-20mA output (4-20mA min load with 0 Ohm @ 16V and 700 Ohm @ 30V).
Other specifications are as per product datasheet.

The MTTFd value is estimated by using the part count method specified in ISO 13849-1 ANNEX C.5 and ANNEX D. With reference to same it is assumed that 50% of failures take a dangerous course.

Failure rates for the different components are derived from the SN29500:2004 series database.

B10d derivation A B10d - value of > 10 million pressure cycles with 95% confidence is demonstrated for the thin film transmitter family in generally.
The B10d - value is only valid in environments non-corrosive to 17-4PH stainless steel (this excludes water applications)

Date: 2023.06.15 Place of issue: DK-6430	Issued by  Signature: Name: John Hansen Title: Product Specialist	Date: 2023.06.15 Place of issue: DK-6430	Approved by  Signature: Name: Christian Dall Larsen Title: Director, Application & Product
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