

## FUNCTIONAL SAFETY DATA SHEET®

<b>Manufacturer</b>	BD I SENSORS GmbH BD-Sensors-Straße 1 D-95199 Thierstein Germany
<b>Product(s)</b>	LMP 307, LMP 308
<b>Intended application</b>	The above listed product(s) are used as submersible probe for hydrostatic level measurements
<b>Basis of testing</b>	IEC 61508:1999 IEC 61511:2003
<b>Report</b>	The test report 154.101.103 of 2007-02-15 is an integral part of this data sheet
<b>Functional Safety Data</b>	
Type	A
Hardware Fault Tolerance	0
Safe Failure Fraction	61,0 %
Safe Detected Failure Rate	0 /hour
Safe Undetected Failure Rate	6,13E-8 /hour
Dangerous Detected Failure Rate	3,66E-8 /hour
Dangerous Undetected Failure Rate	6,28E-8 /hour
Dangerous Diagnostic Coverage	37%
MTTFd	1148 years
MTTFs	1863 years
PFD	See report for sample calculations
PFS	See report for sample calculations
Fit for use in Safety Integrity Level	2
Fit for use in Spurious Trip Level™	5

2007-02-15

Date



Dr. M.J.M. Houtermans

## FUNCTIONAL SAFETY DATA SHEET®

<b>Manufacturer</b>	BD I SENSORS GmbH BD-Sensors-Straße 1 D-95199 Thierstein Germany
<b>Product(s)</b>	LMP 307 Ex, LMP 308 Ex
<b>Intended application</b>	The above listed product(s) are used as submersible probe for hydrostatic level measurements in Ex environments
<b>Basis of testing</b>	IEC 61508:1999 IEC 61511:2003
<b>Report</b>	The test report 154.101.103 of 2007-02-15 is an integral part of this data sheet
<b>Functional Safety Data</b>	
Type	A
Hardware Fault Tolerance	0
Safe Failure Fraction	61,0 %
Safe Detected Failure Rate	0 /hour
Safe Undetected Failure Rate	6,13E-8 /hour
Dangerous Detected Failure Rate	3,74E-8 /hour
Dangerous Undetected Failure Rate	6,28E-8 /hour
Dangerous Diagnostic Coverage	37%
MTTFd	1139 years
MTTFs	1863 years
PFD	See report for sample calculations
PFS	See report for sample calculations
Fit for use in Safety Integrity Level	2
Fit for use in Spurious Trip Level™	5

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