

FUNCTIONAL SAFETY DATA SHEET®

Manufacturer	BD I SENSORS GmbH BD-Sensors-Straße 1 D-95199 Thierstein Germany
Product(s)	LMP 307, LMP 308
Intended application	The above listed product(s) are used as submersible probe for hydrostatic level measurements
Basis of testing	IEC 61508:1999 IEC 61511:2003
Report	The test report 154.101.103 of 2007-02-15 is an integral part of this data sheet
Functional Safety Data	
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®

Manufacturer	BD I SENSORS GmbH BD-Sensors-Straße 1 D-95199 Thierstein Germany
Product(s)	LMP 307 Ex, LMP 308 Ex
Intended application	The above listed product(s) are used as submersible probe for hydrostatic level measurements in Ex environments
Basis of testing	IEC 61508:1999 IEC 61511:2003
Report	The test report 154.101.103 of 2007-02-15 is an integral part of this data sheet
Functional Safety Data	
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

2007-02-15

Date



Dr. M.J.M. Houtermans