

## Manufacturer's Declaration according to IEC 61508-2 and DIN EN ISO 13849-1

### Herstellererklärung nach IEC61508-2 und DIN EN ISO 13849-1

Für FEMA Druckschalter und Thermostate /  
for FEMA Pressure Switch and thermostat type range:

#### Sicherheitstechnische Kennzahlen gemäß / Safety parameters according (IEC61508 und / and ISO13849-1)

Typ / Type	DC	PFD (Tproof= 1 year)	PFD (Tproof= 2 years)	PFD (Tproof= 5 years)	MTTFd (years)	SIL-Level	Performance Level (calc.) / PFH
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#### Druckschalter / Pressure Switch

DCM/DNM/DNS(min)	0%	4,91E-04	7,24E-04	1,42E-03	1934	SIL2	5,90E-08 1/h
DCM/DNM/DNS(max)	0%	6,65E-04	9,81E-04	1,93E-03	1426	SIL2	8,01E-08 1/h
DDCM252-1602(min/max)	0%	7,34E-04	1,08E-03	2,13E-03	1282	SIL2	8,90E-08 1/h
DDCM014-16(min/max)	0%	6,53E-04	9,62E-04	1,89E-03	1445	SIL2	7,90E-08 1/h
VCM/VNM/VNS(min)	0%	4,91E-04	7,24E-04	1,42E-03	1934	SIL2	5,90E-08 1/h
VCM/VNM/VNS(max)	0%	6,65E-04	9,81E-04	1,93E-03	1426	SIL2	8,01E-08 1/h
DWR/DGM(min)	0%	4,91E-04	7,24E-04	1,42E-03	1934	SIL2	5,90E-08 1/h
DWR/DGM(max)	0%	6,40E-04	9,44E-04	1,85E-03	1482	SIL2	7,70E-08 1/h
DWAM/SDBAM	0%	5,70E-04	8,39E-04	1,65E-03	1654	SIL2	6,90E-08 1/h
DBS-DWAM, FD	0%	2,90E-04	4,29E-04	8,42E-04	3261	SIL2	3,50E-08 1/h
DBS-DWR(max)	0%	3,62E-04	5,33E-04	1,05E-03	2594	SIL2	4,40E-08 1/h
DBS-DWR(min)	0%	2,12E-04	3,13E-04	6,14E-04	4390	SIL2	2,60E-08 1/h

#### Ex-Druckschalter / Ex- Pressure Switch

EX-DNM/-DNS(min)	0%	4,91E-04	7,24E-04	1,42E-03	1934	SIL2	5,90E-08 1/h
EX-DNM/-DNS(max)	0%	6,65E-04	9,81E-04	1,93E-03	1426	SIL2	8,01E-08 1/h
Ex-DDCM252-1602(min/max)	0%	7,34E-04	1,08E-03	2,13E-03	1282	SIL2	8,90E-08 1/h
EX-DDCM014-16(min/max)	0%	6,53E-04	9,62E-04	1,89E-03	1445	SIL2	7,90E-08 1/h
EX-VNM/-VCM/VNS(min)	0%	4,91E-04	7,24E-04	1,42E-03	1934	SIL2	5,90E-08 1/h
EX-VNM/-VCM/VNS(max)	0%	6,65E-04	9,81E-04	1,93E-03	1426	SIL2	8,01E-08 1/h
EX-DWR/-DGM(min)	0%	4,91E-04	7,24E-04	1,42E-03	1934	SIL2	5,90E-08 1/h
EX-DWR/-DGM(max)	0%	6,40E-04	9,44E-04	1,85E-03	1482	SIL2	7,70E-08 1/h

#### Thermostate / Thermostats

TAM/TRM/TX/TXB(min)	0%	4,91E-04	7,24E-04	1,42E-03	1934	SIL2	5,90E-08 1/h
TAM/TRM/TX/TXB(max)	0%	6,99E-04	1,03E-03	2,02E-03	1358	SIL2	8,41E-08 1/h

#### Ex-Thermostate / Ex-Thermostats

EX-TAM/TRM/TX/TXB(min)	0%	4,91E-04	7,24E-04	1,42E-03	1934	SIL2	5,90E-08 1/h
EX-TAM/TRM/TX/TXB(max)	0%	6,99E-04	1,03E-03	2,02E-03	1358	SIL2	8,41E-08 1/h



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**\*Zusätzliche Gehäuseoptionen / Additional housing options: –xxx (not for Ex-models) "ZF":**  
-165, -195, -203, -205, -211, -213, -217, -301, -305, -307, -313, -351, -406, -409, -414, -513, -576, -577, -601, -603, -93, and combinations of them.

**\*Zusatzfunktionen / Additional service functions "ZF" indicated by extension of OS-No. with "-S":**  
ZF1970, ZF1971, ZF1972, ZF1973, ZF1978, ZF1979, WZ2.2, AZ3.1, AZ3.1-V

*\*nicht für alle Varianten verfügbar / not for every variant available*

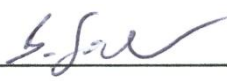
PFH und PL sind identisch, aufgrund der nicht vorhandenen "gefährlichen, entdeckten" Fehlern.  
*PFH and PL are identical, because there are no dangerous detected failures.*

Der Nachweis erfolgte durch FMEDA, durchgeführt von der Fa. EXIDA  
Prüfbericht : Honeywell 11/02-014 R004  
*FMEDA – Assessment by EXIDA, Report No: Honeywell 11/02-014 R004*

Die sicherheitstechnischen Daten gelten nur bei bestimmungsgemäßem Einsatz und unter den Bedingungen, die in den technischen Datenblättern genannt sind.  
*Safety relevant data are only valid for intended use under condition for technical data stated in FEMA datasheets.*

Unterschrift Qualität/ *Signature Quality*

Schoenaich 2012, 23.October



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Bernhard Gärtner  
(Manager Quality Assurance)  
(*Leiter Qualitätssicherung*)