

Device Gerät	Type Typ	SIL	Safety related output signal Sicherheitsbezogenes Ausgangssignal	Safety function Sicherheitsfunktion	SIL-Declaration of Conformity acc. to IEC 61508 SIL-Konformitätserklärung nach IEC 61508	Inspection body certificate Prüfstellen-Zertifikat	Safety Manual Sicherheits- handbuch	
Level switches Füllstand-Grenzschalter								
Liquiphant M/S	FTL5x, FTL5xH, FTL51C, FTL7x	2	Thyristor (contactless 2-wire/ kontaktloser 2-Draht) - FEL51	Level MAX	see Safety Manual	see Safety Manual	SD164F	
				Level MIN	see Safety Manual		SD185F	
			PNP - FEL52	Level MAX	see Safety Manual		SD163F	
				Level MIN	see Safety Manual		SD186F	
			DPDT: relay contacts/ Relaiskontakte - FEL54	Level MAX	see Safety Manual		SD162F	
				Level MIN	see Safety Manual		SD187F	
		8/16mA (NE 43) - FEL55	Level MAX	see Safety Manual	see Safety Manual	SD167F		
			Level MIN	see Safety Manual		SD279F		
Liquiphant M/S und Nivotester FTL325N	FTL5x, FTL5xH, FTL51C, FTL7x	2	NAMUR (IEC 60947-5-6) - FEL56	Level MAX	SIL-03009b	TÜV: 968/FSP 1148.00/15	until/bis 04/16: SD168F	
				Level MIN	SIL_00069		from/ab 04/16: SD01521F	
							SIL-04001b	until/bis 04/16: SD00188F
					SIL_00069		from/ab 04/16: SD01521F	
			NAMUR (IEC 60947-5-6) with push button/mit Prüftaste - FEL58	Level MAX	see Safety Manual		SIL_00071	until/bis 04/16: SD161F
				Level MIN	see Safety Manual		SIL_00071	from/ab 04/16: SD01522F
				until/bis 04/16: SD00170F				
				from/ab 04/16: SD01522F				
Liquiphant M/S und Nivotester FTL325P	FTL5x, FTL5xH, FTL51C, FTL7x	2/3	PFM - FEL57	Level MAX	see Safety Manual	TÜV: 968/EL 133.01/01	until/bis 04/16: SD111F	
		2		Level MIN	see Safety Manual	TÜV: 968/FSP 1148.00/15	SD01508F	
					see Safety Manual	TÜV: 968/FSP 1148.00/15	until/bis 04/16: SD231F	
					SIL_00070	SD01508F		
Liquiphant M/S und Nivotester FTL375P	FTL5x, FTL5xH, FTL51C, FTL7x	2/3	PFM - FEL57	Level MAX	-	TÜV: 968/EL 146.01/01	SD113F	
Liquiphant S FailSafe und Nivotester FTL670	FDL60/61 (replaced by/ersetzt durch FTL8x)	3	PFM, relay/Relais - FEL67	Level MAX	see Safety Manual	see Safety Manual	SD175F	
Liquiphant FailSafe	FTL80/81/85	3	4...20 mA - FEL85	Level MAX Level MIN				
Liquiphant S FailSafe und Nivotester FailSafe FTL825	FTL80/81/85	3	Relay/Relais - FEL85	Level MAX Level MIN	see Safety Manual	TÜV: 968/EL 676.01/12	SD00350F	
Soliphant M, Soliphant M und Nivotester FTL325P	FTM50/51/52	2	Thyristor (contactless 2-wire/ kontaktloser 2-Draht) - FEM51	Level MAX	see Safety Manual	Exida: E+H 1009074 P0012 C02	SD203F	
			PNP - FEM52	Level MAX	see Safety Manual	Exida: E+H 1009074 P0012 C02	SD204F	
			DPDT: relay contacts/ Relaiskontakte - FEM54	Level MAX	see Safety Manual	Exida: E+H 1009074 P0012 C02	SD205F	
			8/16 mA - FEM55	Level MAX	see Safety Manual	Exida: E+H 1009074 P0012 C02	SD208F	
		2/3	PFM - FEM57	Level MAX	SIL_00072	Exida: E+H 1009074 P0012 C02 TÜV: 968/FSP 1148.00/15	SD207F	
		2	NAMUR (IEC 60947-5-6) with push button/ mit Prüftaste - FEM58	Level MAX	see Safety Manual	Exida: E+H 1009074 P0012 C02	SD206F	
Liquicap M	FTI51/52			Level MAX Level MIN		TÜV: 44 207 08 360698-001		
Solicap M	FTI55/56	2/3	8/16 mA - FEI55	Level MAX Level MIN	see Safety Manual		SD278F	
Solicap S	FTI77			Level MAX Level MIN		Renewed: TÜV: 44 799 13461309		
Gammapiot M	FMG60	2/3	4...20 mA	Level MAX	see Safety Manual	TÜV: 968/EL 425.05/11	SD00230F	
		1		Level MIN	HE-11037a (Software V.01.03.06) HE_00286 (Software V.01.02.02)	-	SD00324F	
				Range/Bereich		-	-	
Oil leak detector/ Ölleckmelder	NAR300 (NRR261/262)	2	Relay/Relais	Oil leak detect	see Safety Manual	TÜV: 44 799 13145303	SD01357G	

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Level continuous Füllstand kontinuierlich								
Liquicap M	FMI51/52	2	4...20 mA - FEI50H	Level MAX	see Safety Manual	Exida: E+H 1009074 P0012 C01	SD00198F	
Levellflex	FMP50/51/52/ 53/54/55/56/57	2/3		Level MAX	see Safety Manual	TÜV: 968/EL/733.02/16	SD00326F	
				Level MIN				
				Range/Bereich				
Levellflex M	FMP40/41C/43/45 (replaced by/ ersetzt durch FMP5x)	2		Level MAX	see Safety Manual	see Safety Manual resp. TÜV: 44 799 13761301	SD174F	
				Level MIN				
				Range/Bereich				
Micropilot	FMR50/51/52/ 53/54/56/57	2/3	4...20 mA	Level MAX	see Safety Manual	TÜV: 968/EL/882.00/12	SD01087F	
				Level MIN				
				Range/Bereich				
	FMR60/62/67	2		Level MAX	SIL_00187	TÜV: 968/FSP 1536.00/17	SD01950F	
				Level MIN				
				Range/Bereich				
NMR81/84	2	Level MAX	SIL_00142	TÜV: 968/FSP 1146.01/17	SD01891G			
		Level MIN						
		Range/Bereich						
Micropilot M	FMR230/231/ 240/244/245/250 (replaced by/ersetzt durch FMR5x)	2		Level MAX	see Safety Manual	see Safety Manual	SD00327F	
Micropilot S	FMR530/532/ 533/540	2		Level MIN	see Safety Manual	see Safety Manual	SD00345F	
				Level MAX				
				Range/Bereich				
Proservo	NMS5, NMS7	2	4...20 mA, Relay/Relais	MAX	SIL-16001	TÜV: 44 799 16005501	SD00337G	
				MIN				
				Range/Bereich				
	NMS80/81/83	2		MAX	SIL_00152	TÜV: 968/FSP 1687.00/18	SD01920G	
				MIN				
				Range/Bereich				
Tank Side Monitor Tankstand-messung	NRF81	2	4...20 mA, Relay/Relais	MAX	SIL_00186	in progress	SD01929G	
MIN								
Range/Bereich								
Process pressure Prozessdruck								
Cerabar T	PMP131/135 (PMC131): Auslieferdatum 09/1997-03/2006	2		MAX	see Safety Manual	see Safety Manual	SD160P	
				MIN				
				Range/Bereich				
Cerabar M	PMP51/55, PMC51	2/3	4...20 mA	MAX	see Safety Manual	TÜV: 44 799 13761310	SD00347P	
				MIN				
				Range/Bereich				
	PMP41/45/46/48, PMC41/45 (ersetzt durch PMP5x/PMC5x)			2	MAX	see Safety Manual	see Safety Manual	SD172P
					MIN			
					Range/Bereich			
Cerabar S	PMP71/75, PMC71	2/3	4...20 mA	MAX	see Safety Manual	TÜV: Z10 16 09 20351 005	SD00190P	
				MIN				
				Range/Bereich				
	PMP731/635, PMC731/631 (ersetzt durch PMP7x/PMC7x)			2	MAX	see Safety Manual	see Safety Manual	SD159P
					MIN			
					Range/Bereich			
Deltapilot S	FMB70	2		MAX	see Safety Manual	TÜV: Z10 16 09 20351 005	SD00213P	
Deltapilot M	FMB50/51/52/53	2		MIN	see Safety Manual	TÜV: 44 799 13761310	SD00347P	
				Range/Bereich				
				MAX				

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Differential pressure Differenzdruck							
Deltabar M	PMD55	2	4...20 mA	MAX	see Safety Manual	TÜV: 44 799 13761310	SD00347P
				MIN			
				Range/Bereich			
Deltabar S	PMD70/75 FMD76/77/78	2/3	4...20 mA	MAX	see Safety Manual	TÜV: Z10 16 09 20351 005	SD00189P
				MIN			
				Range/Bereich			
	PMD230/235 FMD230/630/ 633 (ersetzt durch PMD7x)	2		MAX	see Safety Manual	see Safety Manual	SD158P
			MIN				
			Range/Bereich				
Temperature Temperatur							
ITEMP HART	TMT82	2/3	4...20 mA	MAX	SIL_00023_de	TÜV: Z10 16 03 12833 002	SD01172T
				MIN			
				Range/Bereich			
	TMT182	2	4...20 mA	MAX	see Safety Manual	see Safety Manual	SD006R <small>bis 15.03.2019</small>
				MIN			
				Range/Bereich			
	TMT162	2	4...20 mA	MAX	see Safety Manual	see Safety Manual	SD005R
				MAX			
				MIN			
	TMT162	2/3	4...20 mA HART 7	MAX	see Safety Manual	TÜV: Z10 18 02 12833 004	SD01632T <small>bis 15.03.2019</small>
MIN							
Range/Bereich							
TMT112	2	4...20 mA	MAX	see Safety Manual	see Safety Manual	SD010R <small>bis 15.03.2019</small>	
			MIN				
			Range/Bereich				
TMT122	2	4...20 mA	MAX	see Safety Manual	see Safety Manual	SD007R <small>bis 15.03.2019</small>	
			MIN				
			Range/Bereich				

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Flow measurement Durchflussmessung							
Promass	8A2B, 8E2B, 8E2C, 8F2B	2/3	4...20 mA	MAX MIN Range/Bereich MIN flow, MAX flow, flow range, MIN density, MAX density, density range	see Safety Manual	see Safety Manual	SD00147D
	80, 83 (A, E, F, H, I, P, S, O, X)	2		MAX MIN Range/Bereich	-	see Safety Manual	SD00077D
	80, 83 (ab Software V.3.00.XX)	2/3		MAX MIN Range/Bereich MIN flow, MAX flow, flow range, MIN density, MAX density, density range			
	8A3B, 8E3B, 8F3B, 8H3B, 8I3B, 8O3B, 8P3B, 8Q3B, 8S3B, 8X3B	2/3		MAX MIN Range/Bereich MIN flow, MAX flow, flow range, MIN density, MAX density, density range	see Safety Manual	see Safety Manual	SD01727D
	8A5B, 8E5B, 8F5B, 8H5B, 8I5B, 8O5B, 8P5B, 8Q5B, 8S5B, 8X5B	2/3		MAX MIN Range/Bereich MIN flow, MAX flow, flow range, MIN density, MAX density, density range	see Safety Manual	see Safety Manual	SD01729D
Cubemass	8C3B	2/3	4...20 mA	MAX MIN Range/Bereich	see Safety Manual	see Safety Manual	SD01726D
	8C5B	2/3		MAX MIN Range/Bereich	see Safety Manual	see Safety Manual	SD01728D
Prowirl	7C2B, 7D2B, 7F2B, 7O2B, 7R2B	2/3	4...20 mA	MAX MIN Range/Bereich	see Safety Manual	see Safety Manual	SD01162D bis 09/2019
	7D2C, 7F2C, 7O2C, 7R2C	2/3		MAX MIN Range/Bereich	see Safety Manual	see Safety Manual	SD02025D ab 01.01.2018
	72, 73 (F, W)	1/2		MAX MIN	SIL_Conformity_Pw72 KonformitaetPw73	see Safety Manual	SD00100D
Promag	5H2B, 5P2B	2/3	4...20 mA	MAX MIN Range/Bereich	see Safety Manual	see Safety Manual	SD01451D
	50, 53	2		MAX MIN Range/Bereich	SIL_Conformity_Pg5x	see Safety Manual	SD00115D
	5H3B, 5P3B	2/3		MAX MIN Range/Bereich	see Safety Manual	see Safety Manual	SD01740D
	5H5B, 5P5B, 5W5B	2/3		MAX MIN Range/Bereich	see Safety Manual	see Safety Manual	SD01741D

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Liquid analysis Flüssigkeitsanalyse							
Liquiline M	CM42	2	4...20 mA	1. safe mV value transmission/converted pH value output 2. pH value limit monitoring 3. safe calibration/adjustment	see Safety Manual	TÜV: Z10 11 04 30266 019	SD00153C bis 01.07.2018
Orbisint	CPS11D	2			see Safety Manual	TÜV: Z10 11 04 30266 017	SD00152C
Memosens cable/Kabel	CYK10	2			see Safety Manual	TÜV: Z10 11 04 30266 018	SD00151C
Liquiline M, Orbisint, Memosens cable (Kabel)	CM42, CPS11D, CYK10	2	4...20 mA		-	-	-
System components Systemkomponenten							
Active barrier Speisetrenner	RN221N	2	4...20 mA	MAX	see Safety Manual	see Safety Manual	SD00008R
				MIN			
Passive barrier Passivtrenner	RB223	3		Range/Bereich	see Safety Manual	see Safety Manual	SD00011R
				MAX			
Process transmitter Prozess-transmitter	RMA42	2	4...20 mA, Relay/Relais	MIN	see Safety Manual	see Safety Manual	SD00025R
				Range/Bereich			
Process transmitter Prozess-messumformer	RMA422	2	4...20 mA, Relay/Relais	MAX	see Safety Manual	see Safety Manual	SD0009R
				MIN			
Process display unit Prozessanzeiger	RIA15	-		Range/Bereich	SIL-12005a	-	-
Process display unit Prozessanzeiger	RIA45	2	4...20 mA, Relay/Relais	Current-, voltage output 1...2 inputs/Strom-, Spannungsausgang 1...2 Eingänge	see Safety Manual	TÜV: 44 799 12 399708-000	SD00014R
Process display unit Prozessanzeiger	RIA46	2	4...20 mA, Relay/Relais	Current-, voltage output 1...2 inputs/Strom-, Spannungsausgang 1...2 Eingänge	see Safety Manual	TÜV: 44 799 12 399708-000	SD00023R
Fieldgate	FXA520	2	without impairing the safety integrity/Rückwirkungsfreiheit auf 4...20 mA-Schleife		-	-	-
Surge arrester Überspannungsschutz	HAW562	2	without impairing the safety integrity/Rückwirkungsfreiheit auf 4...20 mA-Schleife	Manufacturer's declaration/ Herstellererklärung	SIL-11001a Exida: 10/12-079 R053		-
	HAW569				SIL-11002a Exida: 10/12-034 R055		
Overfill Prevention System Überfüllsicherungssystem	SOP600	2/3		MAX	see Safety Manual	see Safety Manual	SD01599S