

Overview SIL devices  
Überblick SIL Geräte

Device Gerät	Type Typ	SIL	Safety related output signal Sicherheitsbezogenes Ausgangssignal	Safety function Sicherheitsfunktion	SIL Datasheet SIL Datenblatt	SIL-Declaration of Conformity acc. to IEC 61508 SIL-Konformitätserklärung nach IEC 61508	Prüfstellen-Zertifikat	Safety Manual Sicherheitshandbuch
<b>Level switches Füllstand-Grenzschalter</b>								
Liquiphant M/S	FTL5x, FTL5xH, FTL51C, FTL7x	2	Thyristor (contactless 2-wire/ kontaktloser 2-Draht) - FEL51	Level MAX	<a href="#">SD255F</a>	see Safety Manual	see Safety Manual	<a href="#">SD164F</a>
				Level MIN	<a href="#">SD256F</a>	see Safety Manual		<a href="#">SD185F</a>
			PNP - FEL52	Level MAX	<a href="#">SD257F</a>	see Safety Manual	see Safety Manual	<a href="#">SD163F</a>
				Level MIN	<a href="#">SD258F</a>	see Safety Manual		<a href="#">SD186F</a>
			DPDT: relay contacts/ Relaiskontakte - FEL54	Level MAX	<a href="#">SD259F</a>	see Safety Manual	see Safety Manual	<a href="#">SD162F</a>
				Level MIN	<a href="#">SD260F</a>	see Safety Manual		<a href="#">SD187F</a>
8/16mA (NE 43) - FEL55	Level MAX	<a href="#">SD261F</a>	see Safety Manual	see Safety Manual	<a href="#">SD167F</a>			
Level MIN	<a href="#">SD283F</a>	see Safety Manual	<a href="#">SD279F</a>					
Liquiphant M/S und Nivotester FTL325N	FTL5x, FTL5xH, FTL51C, FTL7x	2	NAMUR (IEC 60947-5-6) - FEL56	Level MAX	<a href="#">SD262F</a>	<a href="#">SIL-03009b</a>	TÜV: 968/FSP 1148.00/15	<a href="#">untill/bis 04/16: SD168E</a>
				Level MIN	<a href="#">SD263F</a>	<a href="#">SIL-00069</a>		<a href="#">from/ab 04/16: SD01521F</a>
			NAMUR (IEC 60947-5-6) with push button/mit Prüftaste - FEL58	Level MAX	<a href="#">SD264F</a>	see Safety Manual		<a href="#">untill/bis 04/16: SD00188F</a>
				Level MIN	<a href="#">SD265F</a>	<a href="#">SIL-00071</a>		<a href="#">from/ab 04/16: SD01522F</a>
Liquiphant M/S und Nivotester FTL325P	FTL5x, FTL5xH, FTL51C, FTL7x	2/3	PFM - FEL57	Level MAX	<a href="#">SD266F</a>	see Safety Manual	TÜV: 968/EL 133.01/01	<a href="#">untill/bis 04/16: SD111F</a>
		2		Level MIN	<a href="#">SD270F</a>	see Safety Manual	TÜV: 968/FSP 1148.00/15	<a href="#">SD01508F</a>
Liquiphant M/S und Nivotester FTL375P	FTL5x, FTL5xH, FTL51C, FTL7x	2/3	PFM - FEL57	Level MAX	<a href="#">SD267F</a>	-	TÜV: 968/EL 146.01/01	<a href="#">SD113F</a>
Liquiphant S FailSafe und Nivotester FTL670	FDL60/61 (replaced by/ersetzt durch FTL8x)	3	PFM, relay/Relais - FEL67	Level MAX	<a href="#">SD268F</a>	see Safety Manual	see Safety Manual	<a href="#">SD175F</a>
Liquiphant FailSafe	FTL80/81/85	3	4...20 mA - FEL85	Level MAX	<a href="#">SD01083F</a>	see Safety Manual	TÜV: 968/EL 676.01/12	<a href="#">SD00350F</a>
Liquiphant S FailSafe und Nivotester FailSafe FTL825	FTL80/81/85	3	Relay/Relais - FEL85	Level MIN				
Soliphant M, Soliphant M und Nivotester FTL325P	FTM50/51/52	2	Thyristor (contactless 2-wire/ kontaktloser 2-Draht) - FEM51	Level MAX	<a href="#">SD249F</a>	see Safety Manual	<a href="#">Exida: E+H 1009074 P0012 C02</a>	<a href="#">SD203F</a>
				Level MAX	<a href="#">SD250F</a>	see Safety Manual	<a href="#">Exida: E+H 1009074 P0012 C02</a>	<a href="#">SD204F</a>
			DPDT: relay contacts/ Relaiskontakte - FEM54	Level MAX	<a href="#">SD251F</a>	see Safety Manual	<a href="#">Exida: E+H 1009074 P0012 C02</a>	<a href="#">SD205F</a>
				Level MAX	<a href="#">SD254F</a>	see Safety Manual	<a href="#">Exida: E+H 1009074 P0012 C02</a>	<a href="#">SD208F</a>
		2/3	PFM - FEM57	Level MAX	<a href="#">SD253F</a>	<a href="#">SIL-00072</a>	<a href="#">Exida: E+H 1009074 P0012 C02</a>	<a href="#">SD207F</a>
		2	NAMUR (IEC 60947-5-6) with push button/ mit Prüftaste - FEM58	Level MAX	<a href="#">SD252F</a>	see Safety Manual	<a href="#">Exida: E+H 1009074 P0012 C02</a>	<a href="#">SD206F</a>
Liquicap M	FTI51/52	2/3	8/16 mA - FEI55	Level MAX	<a href="#">SD286F</a>	see Safety Manual	TÜV: 44 207 08 360698-001	<a href="#">SD278F</a>
Solicap M	FTI55/56			Level MIN				
Solicap S	FTI77			Level MAX				
				Level MIN				
Gammapiilot M	FMG60	2/3	4...20 mA	Level MAX	<a href="#">SD00248F</a>	see Safety Manual	TÜV: 968/EL 425.05/11	<a href="#">SD00324F</a>
Oil leak detector/ Ölleckmelder	NAR300 (NRR261/262)	2	Relay/Relais	Oil leak detect	see Safety Manual	see Safety Manual	TÜV: 44 799 13145303	<a href="#">SD00230F</a>
				see Safety Manual	see Safety Manual	<a href="#">SD01357G</a>		

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<b>Level continuous Füllstand kontinuierlich</b>									
Liquicap M	FMI51/52	2	4...20 mA - FEI50H	Level MAX Level MIN	<a href="#">SD269F</a>	see Safety Manual	Exida: E+H 1009074 P0012 C01	<a href="#">SD00198F</a>	
Levelflex	FMP50/51/52/ 53/54/55/56/57	2/3	4...20 mA	Level MAX Level MIN Range/Bereich	<a href="#">SD00332F</a>	see Safety Manual	TÜV: 968/EL 733.00/11 TÜV: 968/EL 733.02/16	<a href="#">SD00326F</a>	
Levelflex M	FMP40/41C/43/45 (replaced by/ersetzt durch FMP5x)	2		Level MAX Level MIN Range/Bereich	<a href="#">SD285F</a>	see Safety Manual	see Safety Manual bzw. TÜV: 44 799 13761301	<a href="#">SD174F</a>	
Micropilot	FMR50/51/52/ 53/54/56/57	2/3		Level MAX Level MIN Range/Bereich	<a href="#">SD01126F</a>	see Safety Manual	TÜV: 968/EL/882.00/12	<a href="#">SD01087F</a>	
	FMR60/62/67	2/3		Level MAX Level MIN Range/Bereich	in progress	in progress	in progress	in progress	
	NMR81/84	2		Level MAX Level MIN Range/Bereich	in progress	<a href="#">SIL_00142</a>	in progress	SD01891G in progress	
Micropilot M	FMR230/231/240/ 244/245/250 (replaced by/ersetzt durch FMR5x)	2		Level MAX Level MIN	<a href="#">SD00328F</a>	see Safety Manual	see Safety Manual	<a href="#">SD00327F</a>	
Micropilot S	FMR530/532/533 FMR540	2		Level MAX Level MIN Range/Bereich	<a href="#">SD00346F</a>	see Safety Manual	see Safety Manual	<a href="#">SD00345F</a>	
Proservo	NMS5, NMS7	2		4...20 mA, Relay/Relais	MAX MIN Range/Bereich	<a href="#">SD00348G</a>	<a href="#">SIL-16001</a>	TÜV: 44 799 16005501	<a href="#">SD00337G</a>
	NMS80/81/83	2			MAX MIN Range/Bereich	in progress	<a href="#">SIL_00152</a>	in progress	SD01920G in progress
<b>Process pressure Prozessdruck</b>									
Cerabar T	PMP131/135 (PMC131): Auslieferdatum 09/1997-03/2006	2	4...20 mA	MAX MIN Range/Bereich	<a href="#">SD247P</a>	see Safety Manual	see Safety Manual	<a href="#">SD160P</a>	
Cerabar M	PMP51/55, PMC51			MAX MIN Range/Bereich	<a href="#">SD00351P</a>	see Safety Manual	TÜV: 44 799 13761310	<a href="#">SD00347P</a>	
	PMP41/45/46/ 48, PMC41/45 (ersetzt durch PMP5x/PMC5x)	MAX MIN Range/Bereich		<a href="#">SD246P</a>	see Safety Manual	see Safety Manual	<a href="#">SD172P</a>		
Cerabar S	PMP71/75, PMC71	2/3		MAX MIN Range/Bereich	<a href="#">SD244P</a>	see Safety Manual	TÜV: Z10.16.09.20351.005	<a href="#">SD00190P</a>	
	PMP731/635, PMC731/631 (ersetzt durch PMP7x/PMC7x)	MAX MIN Range/Bereich		<a href="#">SD245P</a>	see Safety Manual	see Safety Manual	<a href="#">SD159P</a>		
Deltapilot S	FMB70	2		MAX MIN Range/Bereich	<a href="#">SD241P</a>	see Safety Manual	TÜV: Z10.16.09.20351.005	<a href="#">SD00213P</a>	
Deltapilot M	FMB50/51/52/53			MAX MIN Range/Bereich	<a href="#">SD00351P</a>	see Safety Manual	TÜV: 44 799 13761310	<a href="#">SD00347P</a>	

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<b>Differential pressure Differenzdruck</b>								
Deltabar M	PMD55	2	4...20 mA	MAX	<a href="#">SD00351P</a>	see Safety Manual	<a href="#">TÜV: 44 799 13761310</a>	<a href="#">SD00347P</a>
				MIN				
				Range/Bereich				
Deltabar S	PMD70/75 FMD76/77/78	2/3	4...20 mA	MAX	<a href="#">SD242P</a>	see Safety Manual	<a href="#">TÜV: Z10 16 09 20351 005</a>	<a href="#">SD00189P</a>
				MIN				
				Range/Bereich				
Deltabar S	PMD230/235 FMD230/630/633 (ersetzt durch PMD7x)	2	4...20 mA	MAX	<a href="#">SD243P</a>	see Safety Manual	see Safety Manual	<a href="#">SD158P</a>
				MIN				
				Range/Bereich				
<b>Temperature Temperatur</b>								
iTEMP HART	TMT82	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	<a href="#">TÜV: Z10 16 03 12833 002</a>	<a href="#">SD01172T</a>
				MIN				
				Range/Bereich				
	TMT182	2	4...20 mA	MAX	<a href="#">SD017R</a>	see Safety Manual	see Safety Manual	<a href="#">SD006R</a>
				MIN				
	TMT162	2	4...20 mA	MAX	<a href="#">SD016R</a>	see Safety Manual	see Safety Manual	<a href="#">SD005R</a>
				MIN				
	TMT112	2	4...20 mA	MAX	<a href="#">SD021R</a>	see Safety Manual	see Safety Manual	<a href="#">SD010R</a>
				MIN				
	TMT122	2	4...20 mA	MAX	<a href="#">SD018R</a>	see Safety Manual	see Safety Manual	<a href="#">SD007R</a>
MIN								
<b>Flow measurement Durchflussmessung</b>								
Promass	8E2B, 8E2C, 8F2B	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD00147D</a>
				MIN				
				Range/Bereich				
	80, 83 (A, E, F, H, I, P, S, O, X)	2	4...20 mA	MAX	<a href="#">SD132D</a>	-	see Safety Manual	<a href="#">SD00077D</a>
				MIN				
	80, 83 (ab Software V.3.00.XX)	2/3	4...20 mA	MIN flow, MAX flow, flow range, MIN density, MAX density, density range	<a href="#">SD133D</a>	-	see Safety Manual	<a href="#">SD00077D</a>
				MAX				
	8A3B, 8E3B, 8F3B, 8H3B, 8I3B, 8O3B, 8P3B, 8Q3B, 8S3B, 8X3B	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD01727D</a>
				MIN				
	8A5B, 8E5B, 8F5B, 8H5B, 8I5B, 8O5B, 8P5B, 8Q5B, 8S5B, 8X5B	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD01729D</a>
MIN								
8C3B	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD01726D</a>	
			MIN					
8C5B	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD01728D</a>	
			MIN					
7C2B, 7D2B, 7F2B, 7O2B, 7R2B	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD01162D</a>	
			MIN					
72, 73 (F, W)	1/2	4...20 mA	MAX	<a href="#">SD134D</a>	<a href="#">SIL Conformity_Pw72</a> <a href="#">KonformitätPw73</a>	see Safety Manual	<a href="#">SD00100D</a>	
			MIN					
Promag	5H2B, 5P2B	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD01451D</a>
				MIN				
				Range/Bereich				
	50, 53	2	4...20 mA	MAX	<a href="#">SD135D</a>	<a href="#">SIL Conformity_Pg5x</a>	see Safety Manual	<a href="#">SD000115D</a>
				MIN				
5H3B, 5P3B	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD01740D</a>	
			MIN					
5H5B, 5P5B, 5W5B	2/3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD01741D</a>	
			MIN					

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<b>Liquid analysis Flüssigkeitsanalyse</b>								
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	<a href="#">SD00160C</a>	see Safety Manual	<a href="#">TÜV: Z10 11 04 30266 019</a>	<a href="#">SD00153C</a>
Orbisint	CPS11D	2			<a href="#">SD00161C</a>	see Safety Manual	<a href="#">TÜV: Z10 11 04 30266 017</a>	<a href="#">SD00152C</a>
Memosens cable/Kabel	CYK10	2			<a href="#">SD00162C</a>	see Safety Manual	<a href="#">TÜV: Z10 11 04 30266 018</a>	<a href="#">SD00151C</a>
Liquiline M, Orbisint, Memosens cable (Kabel)	CM42, CPS11D, CYK10	2	4...20 mA		<a href="#">SD00163C</a>	-	-	-
<b>System components Systemkomponenten</b>								
Active barrier Speisetrenner	RN221N	2	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD00008R</a>
				MIN				
				Range/Bereich				
Passive barrier Passivtrenner	RB223	3	4...20 mA	MAX	see Safety Manual	see Safety Manual	see Safety Manual	<a href="#">SD00011R</a>
				MIN				
				Range/Bereich				
Process transmitter Prozesstransmitter	RMA42	2	4...20 mA, Relay/Relais	MAX	see Safety Manual	see Safety Manual	<a href="#">TÜV: 44 799 12 399708-000</a>	<a href="#">SD00025R</a>
				MIN				
				Range/Bereich				
process transmitter Prozessmessumformer	RMA422	2	4...20 mA, Relay/Relais	MAX	<a href="#">SD0020R</a>	see Safety Manual	see Safety Manual	<a href="#">SD0009R</a>
				MIN				
				Range/Bereich				
Process display unit Prozessanzeiger	RIA15	-			-	<a href="#">SIL-12005a</a>	-	-
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	see Safety Manual	<a href="#">TÜV: 44 799 12 399708-000</a>	<a href="#">SD00014R</a>
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	see Safety Manual	<a href="#">TÜV: 44 799 12 399708-000</a>	<a href="#">SD00023R</a>
Fieldgate	FXA520	2	without impairing the safety integrity/Rückwirkungsfreiheit auf 4...20 mA-Schleife		<a href="#">SD047S</a>	-	-	-
Surge arrester Überspannungsschutz	HAW562	2	without impairing the safety integrity/Rückwirkungsfreiheit auf 4...20 mA-Schleife	Manufacturer's declaration/ Herstellereklärung	-	<a href="#">SIL-11001a</a> <a href="#">Exida: 10/12-079 R053</a>		-
	HAW569					<a href="#">SIL-11002a</a> <a href="#">Exida: 10/12-034 R055</a>		

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