

SIL3 compliant HW Components:

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FS-CPCHAS-0001	Chassis for Control Processor	3402000	V1.0	968/EZ 195.00/05	Valid
FS-CPCHAS-0001	Chassis for Control Processor	3402014	V1.1	968/EZ 195.00/05	Valid
FS-CPB-0001	Control processor backplane, part of FS-CPCHAS-0001	3410431	V1.0	968/EZ 195.00/05	Valid
FS-CPB-0001	Control processor backplane, part of FS-CPCHAS-0001	3410445	V1.1	968/EZ 195.00/05	Valid
FS-TERM-0001	Bus terminator for non-redundant IO	3402007	V1.0	968/EZ 195.00/05	Valid
FC-TERM-0001	Bus terminator for non-redundant IO (conformal coated)	3432007	CC V1.0	968/EZ 195.00/05	Valid
FS-TERM-0002	Bus terminator for redundant IO	3402008	V1.0	968/EZ 195.00/05	Valid
FC-TERM-0002	Bus terminator for redundant IO (conformal coated)	3432008	CC V1.0	968/EZ 195.00/05	Valid
FS-IOCHAS-0001R	Chassis for redundant I/O modules	3402050	V1.0	968/EZ 195.00/05	Valid
FC-IOCHAS-0001R	Chassis for redundant I/O modules (conformal coated)	3432050	CC V1.0	968/EZ 195.00/05	Valid
FS-IOCHAS-0001R	Chassis for redundant I/O modules	3402052	V1.1	968/EZ 195.00/05	Valid
FC-IOCHAS-0001R	Chassis for redundant I/O modules (conformal coated)	3402052	CC V1.1	968/EZ 195.00/05	Valid
FS-IOCHAS-0001S	Chassis for non-redundant I/O modules	3402051	V1.0	968/EZ 195.00/05	Valid

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FC-IOCHAS-0001S	Chassis for non-redundant I/O modules (conformal coated)	3432051	CC V1.0	968/EZ 195.00/05	Valid
FS-IOCHAS-0001S	Chassis for non-redundant I/O modules	3402053	V1.1	968/EZ 195.00/05	Valid
FC-IOCHAS-0001S	Chassis for non-redundant I/O modules (conformal coated)	3432053	CC V1.1	968/EZ 195.00/05	Valid
FS-IOB-0001S	I/O backplane for non-redundant I/O, part of FS-IOCHAS-0001S	3410432	V1.0	968/EZ 195.00/05	Valid
FS-IOB-0001R	I/O backplane for redundant I/O, part of FS-IOCHAS-0001R	3410434	V1.0	968/EZ 195.00/05	Valid
FS-IOB-0001R	I/O backplane for redundant I/O, part of FS-IOCHAS-0001R	3410448	V1.1	968/EZ 195.00/05	Valid
FS-IOBUS-HBS	Horizontal non-redundant I/O bus backplane, part of FS-IOCHAS-0001S	3410433	V1.0	968/EZ 195.00/05	Valid
FS-IOBUS-HBR	Horizontal redundant I/O bus backplane, part of FS-IOCHAS-0001R	3410435	V1.0	968/EZ 195.00/05	Valid
FS-IO-0001	I/O extender module part of the FS-IOCHAS-0001x	3402500	V1.0	968/EZ 195.00/05	Valid
FC-IO-0001	I/O extender module part of the FC-IOCHAS-0001x (conformal coated)	3432500	CC V1.0	968/EZ 195.00/05	Valid
FS-QPP-0001	Quad Processor Pack	3402001	V1.1	968/EZ 195.00/05	Valid
FS-QPP-0001	Quad Processor Pack	3402009	V1.2	968/EZ 195.00/05	Valid
FS-QPP-0001	Quad Processor Pack	3402013	V1.3	968/EZ 195.00/05	Valid
FC-QPP-0001	Quad Processor Pack (conformal coated)	3432013	CC V1.3	968/EZ 195.00/05	Valid

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FS-BKM-0001	Battery and Key switch Module	3402003	V1.0	968/EZ 195.00/05	Valid
FC-BKM-0001	Battery and Key switch Module (conformal coated)	3432003	CC V1.0	968/EZ 195.00/05	Valid
FS-PSU-240516	Power Supply Unit 24/5 Vdc, 16A	3402002	V1.0	968/EZ 195.00/05	Valid
FC-PSU-240516	Power Supply Unit 24/5 Vdc, 16A (conformal coated)	3432002	CC V1.0	968/EZ 195.00/05	Valid
FS-PSU-240516	Power Supply Unit 24/5 Vdc, 16A	3402011	V1.1	968/EZ 195.00/05	Valid
FC-PSU-240516	Power Supply Unit 24/5 Vdc, 16A	3432011	CC V1.1	968/EZ 195.00/05	Valid
FS-SDI-1624	Safe digital input module (24 Vdc, 16 channels)	3402100	V1.0	968/EZ 195.00/05	Valid
FC-SDI-1624	Safe digital input module (24 Vdc, 16 channels) (conformal coated)	3432100	CC V1.0	968/EZ 195.00/05	Valid
FS-SAI-0410	Safe analog input module (4 channels)	3402102	V1.0	968/EZ 195.00/05	Valid
FC-SAI-0410	Safe analog input module (4 channels) (conformal coated)	3432102	CC V1.0	968/EZ 195.00/05	Valid
FS-SAI-1620m	Safe high-density analog input module (24 Vdc, 16 channels)	3402103	V1.0	968/EZ 195.00/05	Valid
FC-SAI-1620m	Safe high-density analog input module (24 Vdc, 16 channels) (conformal coated)	3432103	CC V1.0	968/EZ 195.00/05	Valid
FS-SAI-1620m	Safe high-density analog input module (24 Vdc, 16 channels)	3402106	V1.1	968/EZ 195.00/05	Valid
FC-SAI-1620m	Safe high-density analog input module (24 Vdc, 16 channels) (conformal coated)	3432106	CC V1.1	968/EZ 195.00/05	Valid
FS-SDIL-1608	Safe line-monitored digital input module with earth fault monitor (16 channels)	3402104	V1.0	968/EZ 195.00/05	Valid

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FC-SDIL-1608	Safe line-monitored digital input module with earth fault monitor (16 channels) (conformal coated)	3432104	CC V1.0	968/EZ 195.00/05	Valid
FS-SDIL-1608	Safe line-monitored digital input module with earth fault monitor (16 channels)	3402107	V1.1	968/EZ 195.00/05	Valid
FC-SDIL-1608	Safe line-monitored digital input module with earth fault monitor (16 channels) (conformal coated)	3432107	CC V1.1	968/EZ 195.00/05	Valid
FS-SDO-0824	Safe digital output module (24 Vdc, 0.55 A, 8 channels)	3402202	V1.0	968/EZ 195.00/05	Valid
FC-SDO-0824	Safe digital output module (24 Vdc, 0.55 A, 8 channels) (conformal coated)	3432202	CC V1.0	968/EZ 195.00/05	Valid
FS-SDO-0824	Safe digital output module (24 Vdc, 0.55 A, 8 channels)	3402211	V1.1	968/EZ 195.00/05	Valid
FC-SDO-0824	Safe digital output module (24 Vdc, 0.55 A, 8 channels) (conformal coated)	3432211	CC V1.1	968/EZ 195.00/05	Valid
FS-SAO-0220m	Safe analog output module (0(4)-20 mA, 2 channels)	3402203	V1.0	968/EZ 195.00/05	Valid
FC-SAO-0220m	Safe analog output module (0(4)-20 mA, 2 channels) (conformal coated)	3432203	CC V1.0	968/EZ 195.00/05	Valid
FS-SDO-0424	Safe digital output module (24 Vdc, 2 A, 4 channels)	3402207	V1.0	968/EZ 195.00/05	Valid
FC-SDO-0424	Safe digital output module (24 Vdc, 2 A, 4 channels) (conformal coated)	3432207	CC V1.0	968/EZ 195.00/05	Valid
FS-SDOL-0424	Safe loop-monitored digital output module (24 Vdc, 1 A, 4 ch.)	3402208	V1.0	968/EZ 195.00/05	Valid
FC-SDOL-0424	Safe loop-monitored digital output module (24 Vdc, 1 A, 4 ch.) (conformal coated)	3432208	CC V1.0	968/EZ 195.00/05	Valid
FS-SDI-1648	Safe digital input module (48 Vdc, 16 channels)	3402105	V1.1	968/EZ 195.00/05	Valid

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FC-SDI-1648	Safe digital input module (48 Vdc, 16 channels) (conformal coated)	3432105	CC V1.1	968/EZ 195.00/05	Valid
FS-SDO-0448	Safe digital output module (48 Vdc, 0.75 A, 4 channels)	3402214	V1.1	968/EZ 195.00/05	Valid
FC-SDO-0448	Safe digital output module (48 Vdc, 0.75 A, 4 channels) (conformal coated)	3432214	CC V1.1	968/EZ 195.00/05	Valid
FS-SDOL-0448	Safe loop-monitored digital output module (48 Vdc, 0.5 A, 4 ch.)	3402209	V1.0	968/EZ 195.00/05	Valid
FC-SDOL-0448	Safe loop-monitored digital output module (48 Vdc, 0.5 A, 4 ch.) (conformal coated)	3432209	CC V1.0	968/EZ 195.00/05	Valid
FS-SDO-04110	Safe digital output module (110 Vdc, 0.32 A, 4 channels)	3402212	V1.1	968/EZ 195.00/05	Valid
FC-SDO-04110	Safe digital output module (110 Vdc, 0.32 A, 4 channels) (conformal coated)	3432212	CC V1.1	968/EZ 195.00/05	Valid
FS-TSDI-16UNI	Safe Digital Input FTA(24/48Vdc, NAMUR 16 channels)	3410741	-	968/EZ 195.00/05	Valid
FC-TSDI-16UNI	Safe Digital Input FTA(24/48Vdc, NAMUR 16 channels) (conformal coated)	3440741	CC	968/EZ 195.00/05	Valid
FS-TSDI-1624C	Current-limited digital input FTA (24 Vdc, 16 channels)	3410742	-	968/EZ 195.00/05	Valid
FC-TSDI-1624C	Current-limited digital input FTA (24 Vdc, 16 channels) (conformal coated)	3440742	CC	968/EZ 195.00/05	Valid
FS-TSDI-16115	Safe active/passive digital input FTA (115 Vac/dc, 16 ch.)	3410743	-	968/EZ 195.00/05	Valid
FC-TSDI-16115	Safe active/passive digital input FTA (115 Vac/dc, 16 ch.) (conformal coated)	3440743	CC	968/EZ 195.00/05	Valid
FS-TSAI-0410	Safe analog input FTA (4 channels)	3410745	-	968/EZ 195.00/05	Valid
FC-TSAI-0410	Safe analog input FTA (4 channels) (conformal coated)	3440745	CC	968/EZ 195.00/05	Valid

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FS-TSAI-1620m	Safe 0(4)-20 mA analog input FTA (16 channels)	3410746	-	968/EZ 195.00/05	Valid
FC-TSAI-1620m	Safe 0(4)-20 mA analog input FTA (16 channels) (conformal coated)	3440746	CC	968/EZ 195.00/05	Valid
FS-TSHART-1620m	Safe 0(4)-20 mA analog input FTA (16 channels) with HART interface	3410747	-	968/EZ 195.00/05	Valid
FC-TSHART-1620m	Safe 0(4)-20 mA analog input FTA (16 channels) with HART interface (conformal coated)	3440747	CC	968/EZ 195.00/05	Valid
FS-TSGAS-1624	Safe Gas -Flame detector input FTA (0 - 20 mA, 16 channels)	3410748	-	968/EZ 195.00/05	Valid
FC-TSGAS-1624	Safe Gas -Flame detector input FTA (0 - 20 mA, 16 channels) (conformal coated)	3440748	CC	968/EZ 195.00/05	Valid
FS-TSFIRE-1624	Safe Fire detector input FTA with Line Mon. (24 Vdc, 16 ch.)	3410749	V1.0	968/EZ 195.00/05	Valid
FC-TSFIRE-1624	Safe Fire detector input FTA with Line Mon. (24 Vdc, 16 ch.) (conformal coated)	3440749	CC V1.0	968/EZ 195.00/05	Valid
FS-TSFIRE-1624	Safe Fire detector input FTA with Line Mon. (24 Vdc, 16 ch.)	3410763	V1.1	968/EZ 195.00/05	Valid
FC-TSFIRE-1624	Safe Fire detector input FTA with Line Mon. (24 Vdc, 16 ch.) (conformal coated)	3440763	CC V1.1	968/EZ 195.00/05	Valid
FS-TPSU-2430	24 Vdc to 30 Vdc/1 A converter	3410752	-	968/EZ 195.00/05	Valid
FC-TPSU-2430	24 Vdc to 30 Vdc/1 A converter (conformal coated)	3440752	CC	968/EZ 195.00/05	Valid
FS-TPSU-2430	24 Vdc to 30 Vdc/1 A converter	3410769	V1.1	968/EZ 195.00/05	Valid
FC-TPSU-2430	24 Vdc to 30 Vdc/1 A converter (conformal coated)	3440769	CC V1.1	968/EZ 195.00/05	Valid
FS-TSAO-0220m	Safe 0(4)-20 mA analog input FTA (2 channels)	3410753	-	968/EZ 195.00/05	Valid

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FC-TSAO-0220m	Safe 0(4)-20 mA analog input FTA (2 channels) (conformal coated)	3440753	CC	968/EZ 195.00/05	Valid
FS-TSDO-0424	Safe digital output FTA (24 Vdc, 4 channels)	3410755	-	968/EZ 195.00/05	Valid
FC-TSDO-0424	Safe digital output FTA (24 Vdc, 4 channels) (conformal coated)	3440755	CC	968/EZ 195.00/05	Valid
FS-TSDO-04UNI	Safe digital output FTA (24/48/110 Vdc, 4 channels)	3410756	-	968/EZ 195.00/05	Valid
FC-TSDO-04UNI	Safe digital output FTA (24/48/110 Vdc, 4 channels) (conformal coated)	3440756	CC	968/EZ 195.00/05	Valid
FS-TSDO-0824	Safe digital output FTA (24 Vdc, 8 channels)	3410757	-	968/EZ 195.00/05	Valid
FC-TSDO-0824	Safe digital output FTA (24 Vdc, 8 channels) (conformal coated)	3440757	CC	968/EZ 195.00/05	Valid
FC-TSDO-0824C	Safe digital output FTA current limited (24 Vdc, 8 channels)	3410758	CC	968/EZ 195.00/05	Valid
FC-TSDOL-0424C	Safe digital output FTA, current limited (24 Vdc, 4 channels)	3410759	CC	968/EZ 195.00/05	Valid
FS-TSRO-0824	Digital output (relay) FTA for SIL3 applications (8 channels)	3410761	-	968/EZ 195.00/05	Valid
FC-TSRO-0824	Digital output (relay) FTA for SIL3 applications (8 channels) (conformal coated)	3440761	CC	968/EZ 195.00/05	Valid
FS-TSRO-0824	Digital output (relay) FTA for SIL3 applications (8 channels)	3410767	V1.1	968/EZ 195.00/05	Valid
FC-TSRO-0824	Digital output (relay) FTA for SIL3 applications (8 channels) (conformal coated)	3440767	CC V1.1	968/EZ 195.00/05	Valid
FS-TSDI-1624	Safe digital input FTA (24 Vdc, 16 channels)	3410764	V1.0	968/EZ 195.00/05	Valid
FC-TSDI-1624	Safe digital input FTA (24 Vdc, 16 channels) (conformal coated)	3440764	CC V1.0	968/EZ 195.00/05	Valid
FS-TSDI-1648	Safe digital input FTA (48 Vdc, 16 channels)	3410765	V1.0	968/EZ 195.00/05	Valid

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FC-TSDI-1648	Safe digital input FTA (48 Vdc, 16 channels) (conformal coated)	3440765	CC V1.0	968/EZ 195.00/05	Valid
FS-TSRO-08UNI	Digital output (relay) FTA for SIL3 applications, common power (8 channels)	3410766	V1.0	968/EZ 195.00/05	Valid
FC-TSRO-08UNI	Digital output (relay) FTA for SIL3 applications, common power (8 channels) (conformal coated)	3440766	CC V1.0	968/EZ 195.00/05	Valid
1200 S 24 P067 V115 CM	1200 S PSU 115VAC/24VDC Complete Mounted 45 A	4220135	-	968/EZ 195.00/05	Valid
1200 S 24 P067 V230 CM	1200 S PSU 230VAC/24VDC Complete Mounted 45 A	4220136	-	968/EZ 195.00/05	Valid

Further HW Components suitable for use to build up safety loops up to SIL3 with the Safety Manager:

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FS-USI-0001	Universal Safety Interface	3402004	V1.0	968/EZ 195.00/05	Valid
FC-USI-0001	Universal Safety Interface (conformal coated)	3432004	CC V1.0	968/EZ 195.00/05	Valid
FS-USI-0001	Universal Safety Interface	3402012	V1.1	968/EZ 195.00/05	Valid
FC-USI-0001	Universal Safety Interface (conformal coated)	3432012	CC V1.1	968/EZ 195.00/05	Valid
FS-DCOM-232/485	Communication interface FTA for RS232 and RS485	3402300	V1.0	968/EZ 195.00/05	Valid
FS-DCOM-232/485	Communication interface FTA for RS232 and RS485	3402304	V2.0	968/EZ 195.00/05	Valid

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FC-DCOM-232/485	Communication interface FTA for RS232 and RS485 (conformal coated)	3432304	CC V2.0	968/EZ 195.00/05	Valid
FS-DCOM-232/485	Communication interface FTA for RS232 and RS485	3402305	V2.1	968/EZ 195.00/05	Valid
FC-DCOM-232/485	Communication interface FTA for RS232 and RS485 (conformal coated)	3432305	CC V2.1	968/EZ 195.00/05	Valid
FS-UCOM-HSE	High speed Ethernet switch, make: Hirschman, type RS2-TX	4600065	-	968/EZ 195.00/05	Valid
SDW-550 SW	High speed Ethernet switch, make: Westermo, type SDW-550-EC	4600072	-	968/EZ 195.00/05	Valid
FS-PDB-HSE24	Power Distribution board to power 2x FS-UCOM-HSE	3402301	-	968/EZ 195.00/05	Valid

Further interference free HW Components suitable for use with the Safety Manager:

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FS-DO-1224	Digital output module (24 Vdc, 0.55 A, 12 channels)	3402204	V1.0	968/EZ 195.00/05	Valid
FC-DO-1224	Digital output module (24 Vdc, 0.55 A, 12 channels) (conformal coated)	3432204	CC V1.0	968/EZ 195.00/05	Valid
FS-RO-1024	Relay output module (contacts, 36 Vdc, 2 A, 10 channels)	3402205	V1.0	968/EZ 195.00/05	Valid
FC-RO-1024	Relay output module (contacts, 36 Vdc, 2 A, 10 channels) (conformal coated)	3432205	CC V1.0	968/EZ 195.00/05	Valid
FS-DO-1624	Digital output module (24 Vdc, 0.1 A, 16 channels)	3402206	V1.0	968/EZ 195.00/05	Valid
FC-DO-1624	Digital output module (24 Vdc, 0.1 A, 16 channels) (conformal coated)	3432206	CC V1.0	968/EZ 195.00/05	Valid
FS-TIDI-1624	Isolated passive digital input FTA (16 channels)	3410744	-	968/EZ 195.00/05	Valid
FC-TIDI-1624	Isolated passive digital input FTA (16 channels) (conformal coated)	3440744	CC	968/EZ 195.00/05	Valid
FS-TDO-1624	Digital output FTA (24 Vdc, 16 channels)	3410754	-	968/EZ 195.00/05	Valid
FC-TDO-1624	Digital output FTA (24 Vdc, 16 channels) (conformal coated)	3440754	CC	968/EZ 195.00/05	Valid
FS-TRO-0824	Digital output (relay contact) FTA (8 channels, NO/NC)	3410761	-	968/EZ 195.00/05	Valid
FC-TRO-0824	Digital output (relay contact) FTA (8 channels, NO/NC) (conformal coated)	3440761	CC	968/EZ 195.00/05	Valid
FS-TRO-1024	Digital output (relay contact) FTA (10 channels)	3410762	-	968/EZ 195.00/05	Valid
FC-TRO-1024	Digital output (relay contact) FTA (10 channels) (conformal coated)	3440762	CC	968/EZ 195.00/05	Valid
FS-TDOL-07120	Digital output FTA, loop monitoring (120 V, 7 channels)	3410770	V1.1	968/EZ 195.00/05	Valid


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FC-TDOL-07120	Digital output FTA, loop monitoring (120 V, 7 channels) (conformal coated)	3440770	CC V1.1	968/EZ 195.00/05	Valid

SIL3 compliant SW Components:

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FS-QPP-0001	Quad Processor Pack	3402013	1.31.139.1 (CRC \$789B26C4)	968/EZ 195.00/05	Valid
FS-QPP-0001	Quad Processor Pack	3402013	100.0.89.1 (CRC \$309D43AD)	968/EZ 195.01/05	Valid
FS-QPP-0001	Quad Processor Pack	3402013	100.0.95.1 (CRC \$2B8B87DB)	968/EZ 195.02/05	Valid
FS-QPP-0001	Quad Processor Pack	3402013	110.2.70.1 (CRC \$ F629D2DF)	968/EZ 195.03/06	Valid

Further SW Components suitable for use to build up safety loops up to SIL3 with Safety Manager:

Catalog Number	Description	Part Number	Rev.	Report – No.	Status
FS-SMSB-ST-100	Safety Builder R100.3 Software Basic Windows 2000/XP	3402900	-	968/EZ 195.00/05	Valid
FS-SMSB-ST-100	Safety Builder R101.2 Software Basic Windows 2000/XP	3402904	-	968/EZ 195.01/05	Valid
FS-SMSB-ST-100	Safety Builder R102.2 Software Basic Windows 2000/XP	3402916	-	968/EZ 195.02/05	Valid
FS-SMSB-ST-110	Safety Builder R110.2 Software Basic Windows 2000/XP	3402922	-	968/EZ 195.03/06	Valid

	Released by Manufacturer:	Released by Test Institute:	Released by Certifier:
Signed:		 Andreas Hesse	Heinz Gall
Date: (yyyy-mm-dd)	2006-08-05	2006-08-05	2006-08-05

Document-Revision

Date	Version	Changes	Author
2005-01-31	1.0	First release of template	he/968
2005-06-07	1.1	Modified template to adress different categories of modules	he/968
2005-06-08	1.2	Added some modules	he/968
2005-07-14	1.3	Added Safety Manager V101.2	he/968
2005-10-04	1.4	Added Safety Manager V102.2	he/968
2006-08-04	1.5	Added Safety Manager V110.2 (SafeNet)	he/968
2006-08-04	1.6	Added conformal coated modules, update revisions and new modules	nm
2006-08-05	1.7	Corrected dates	he/968