

Revision Release List:**Safety Control System ProSafe-RS, R3.01****SIL3 compliant HW Components:**

| Model Name | Description | Revision Information | | Report – No. | Status |
|------------|-----------------------------------------------------------------------|----------------------|------------------------------------------|------------------|--------|
| | | Style | Revision No. | | |
| SSC10S | Safety Control Unit (Single CPU, Vnet) | S1 | N/A | 968/EZ 196.00/05 | Valid |
| SSC10D | Safety Control Unit (Dual red. CPU, Vnet) | S1 | N/A | 968/EZ 196.00/05 | Valid |
| SSC50S | Safety Control Unit (Single CPU, Vnet/IP) | S1 | N/A | 968/EZ 196.08/06 | Valid |
| SSC50D | Safety Control Unit (Dual red. CPU, Vnet/IP)) | S1 | N/A | 968/EZ 196.08/06 | Valid |
| SSC60S | Safety Control Unit (Single CPU, Vnet/IP) | S1 | N/A | 968/EZ 196.28/10 | Valid |
| SSC60D | Safety Control Unit (Dual red. CPU, Vnet/IP)) | S1 | N/A | 968/EZ 196.28/10 | Valid |
| SNB10D | Safety Node Unit | S2 | N/A | 968/EZ 196.08/06 | Valid |
| SCP401-11 | Processor Module for SSC10S/D, Vnet | S1 | U:2, H1:7, H2:0, F1:0, F2:2, F3:0, F4:5 | 968/EZ 196.15/08 | Valid |
| SCP451-11 | Processor Module for SSC50S/D, Vnet/IP | S1 | U:2, H1:2, H2:2, F1:16, F2:2, F3:0, F4:6 | 968/EZ 196.31/11 | Valid |
| SCP461-11 | Processor Module for SSC60S/D, Vnet/IP | S1 | U:0, H1:2, H2:1, F1:16, F2:3, F3:4, F4:2 | 968/EZ 196.31/11 | Valid |
| SAI143-S03 | Analog Input Module (4 to 20mA) | S2 | U:0, H1:2, H2:0, F1:2, F2:2 | 968/EZ 196.08/06 | Valid |
| SAI143-S33 | Analog Input Module (4 to 20mA) With signal cable adapter | S2 | U:0, H1:2, H2:0, F1:2, F2:2 | 968/EZ 196.08/06 | Valid |
| SAI143-H03 | Analog Input Module (4 to 20mA, HART) | S2 | U:0, H1:0, H2:2, F1:1, F2:1 | 968/EZ 196.08/06 | Valid |
| SAI143-H33 | Analog Input Module (4 to 20mA, HART) With signal cable adapter | S2 | U:0, H1:0, H2:2, F1:1, F2:1 | 968/EZ 196.08/06 | Valid |
| SAV144-S03 | Analog Input Module (1 to 5V / 1 to 10V) | S2 | U:0, H1:0, H2:0, F1:2, F2:2 | 968/EZ 196.08/06 | Valid |
| SAV144-S33 | Analog Input Module (1 to 5V / 1 to 10V) With signal cable adapter | S2 | U:0, H1:0, H2:0, F1:2, F2:2 | 968/EZ 196.08/06 | Valid |

Manufacturer:

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|------------|---------------------------------------------------------------------------|----|-----------------------------------|------------------|-------|
| SAT145-S33 | Analog Input Module (TC/mV) With signal cable adapter | S1 | U:0, H1:0, H2:1, F1:2, F2:2 | 968/EZ 196.31/11 | Valid |
| SAR145-S33 | Analog Input Module (RTD) With signal cable adapter | S1 | U:0, H1:0, H2:2, F1:2, F2:2 | 968/EZ 196.31/11 | Valid |
| SAI533-H03 | Analog Output Module (4 to 20mA, HART) | S1 | U:0, H1:0, H2:2, F1:2, F2:2 | 968/EZ 196.08/06 | Valid |
| SAI533-H33 | Analog Output Module (4 to 20mA, HART) With signal cable adapter | S1 | U:0, H1:0, H2:2, F1:2, F2:2 | 968/EZ 196.08/06 | Valid |
| SDV144-S13 | Digital Input Module (contact input) | S4 | U:0, H1:1, H2:1, H3:1, F1:1, F2:1 | 968/EZ 196.31/11 | Valid |
| SDV144-S33 | Digital Input Module (contact input) With signal cable adapter | S4 | U:0, H1:1, H2:1, H3:1, F1:1, F2:1 | 968/EZ 196.31/11 | Valid |
| SDV521-S33 | Digital Output Module (24V DC) With signal cable adapter | S3 | U:0, H1:0, H2:0, H3:0, F1:0, F2:0 | 968/EZ 196.30/11 | Valid |
| SDV526-S33 | Digital Output Module (100-120VAC) With signal cable adapter | S1 | U:0, H1:0, H2:1, H3:0, F1:1, F2:1 | 968/EZ 196.18/08 | Valid |
| SDV531-S13 | Digital Output Module (24V DC) | S1 | U:0, H1:2, H2:1, H3:1, F1:3, F2:3 | 968/EZ 196.00/05 | Valid |
| SDV531-S23 | Digital Output Module (24V DC) | S4 | U:1, H1:0, H2:0, H3:1, F1:2, F2:2 | 968/EZ 196.31/11 | Valid |
| SDV531-S33 | Digital Output Module (24V DC) With signal cable adapter | S4 | U:1, H1:0, H2:0, H3:1, F1:2, F2:2 | 968/EZ 196.31/11 | Valid |
| SDV531-L23 | Digital Output Module (24V DC) | S4 | U:1, H1:0, H2:0, H3:1, F1:2, F2:2 | 968/EZ 196.31/11 | Valid |
| SDV531-L33 | Digital Output Module (24V DC) With signal cable adapter | S4 | U:1, H1:0, H2:0, H3:1, F1:2, F2:2 | 968/EZ 196.31/11 | Valid |
| SDV541-S23 | Digital Output Module (24V DC – 16 channels) | S3 | U:1, H1:0, H2:0, H3:1, F1:1, F2:1 | 968/EZ 196.31/11 | Valid |
| SDV541-S33 | Digital Output Module (24V DC – 16 channels) With signal cable adapter | S3 | U:1, H1:0, H2:0, H3:1, F1:1, F2:1 | 968/EZ 196.31/11 | Valid |
| SDV53A-S33 | Digital Output Module (48V DC – 8 channels) With signal cable adapter | S2 | U:0, H1:0, H2:0, H3:0, F1:0, F2:0 | 968/EZ 196.30/11 | Valid |

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| | | | | | |
|-----------|-----------------------------------------------------------------|----|-----|------------------|-------|
| SCB100-S0 | Wiring Check Adapter | S2 | N/A | 968/EZ 196.11/07 | Valid |
| SCB110-S0 | Wiring Check Adapter | S2 | N/A | 968/EZ 196.11/07 | Valid |
| SEA4D-01 | Analog Terminal Board (16-channels x 2) without surge absorber | S1 | N/A | 968/EZ 196.30/11 | Valid |
| SEA4D-11 | Analog Terminal Board (16-channels x 2) with surge absorber | S1 | N/A | 968/EZ 196.30/11 | Valid |
| SED2D-01 | Digital Terminal Board (4-channels x 4) without surge absorber | S2 | N/A | 968/EZ 196.30/11 | Valid |
| SED2D-11 | Digital Terminal Board (4-channels x 4) with surge absorber | S2 | N/A | 968/EZ 196.30/11 | Valid |
| SED3D-A1 | Digital Terminal Board (48VDC, 8-channels x 4) | S1 | N/A | 968/EZ 196.30/11 | Valid |
| SED4D-01 | Digital Terminal Board (16-channels x 2) without surge absorber | S2 | N/A | 968/EZ 196.30/11 | Valid |
| SED4D-11 | Digital Terminal Board (16-channels x 2) with surge absorber | S2 | N/A | 968/EZ 196.30/11 | Valid |
| SWD2D-21 | Digital Terminal Board (100-120VAC, 4-channels x 4) | S1 | N/A | 968/EZ 196.30/11 | Valid |
| SBA4D-01 | Analog Terminal board (16-channels x 1) | S1 | N/A | 968/EZ 196.31/11 | Valid |
| SBT4D-01 | Analog Terminal board (TC/mV, 16-channels x 1) | S1 | N/A | 968/EZ 196.31/11 | Valid |
| SBR4D-01 | Analog Terminal board (RTD, 16-channels x 1) | S1 | N/A | 968/EZ 196.31/11 | Valid |
| SBD2D-01 | Digital Terminal Board (4-channels x 1) | S1 | N/A | 968/EZ 196.31/11 | Valid |
| SBD3D-01 | Digital Terminal Board (8-channels x 1) | S1 | N/A | 968/EZ 196.31/11 | Valid |
| SBD3D-A1 | Digital Terminal Board (48VDC, 8-channels x 1) | S1 | N/A | 968/EZ 196.31/11 | Valid |
| SBD4D-01 | Digital Terminal Board (16-channels x 1) | S1 | N/A | 968/EZ 196.31/11 | Valid |

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Further HW Components suitable for use to build up safety loops up to SIL3 with ProSafe-RS:

| Model Name | Description | Revision Information | | Report – No. | Status |
|------------|-----------------------------------------------------------------------------------------|----------------------|---------------|--------------------------------------|--------|
| | | Style | Revision No. | | |
| AIP602 | FAN Unit for SSC10S/D, SSC50S/D, SSC60S/D | S1 | N/A | 968/EZ 196.00/05 | Valid |
| AIP504-13 | Vnet Coupler Unit | S1 | U:0, H:0 | 968/EZ 196.00/05 | Valid |
| SPW481-13 | 100-120V AC Input Power Supply Module for SSC10S/D, SNB10D, SSC50S/D, SSC60S/D, SNT10D | S1 | U:0, H:4 | announcement letter dated 2011-08-31 | Valid |
| SPW482-13 | 220-240V AC Input Power Supply Module for SSC10S/D, SNB10D, SSC50S/D, SSC60S/D, SNT10D | S1 | U:0, H:4 | announcement letter dated 2011-08-31 | Valid |
| SPW484-13 | 24VDC Input Power Supply Module for SSC10S/D, SNB10D, SSC50S/D, SSC60S/D, SNT10D | S1 | U:0, H:5 | announcement letter dated 2011-08-31 | Valid |
| SNT10D | Note Unit for Optical Bus Repeater Module | S1 | N/A | 968/EZ 196.08/06 | Valid |
| SNT401-13 | Optical ESB Bus Repeater Master Module for SSC10S/D, SNB10D, SSC50S/D, SSC60S/D, SNT10D | S1 | U:1, H:0, F:1 | 968/EZ 196.08/06 | Valid |
| SNT411-13 | Optical ESB Bus Repeater Master Module for long distance | S2 | U:0, H:0, F:1 | 968/EZ 196.30/11 | Valid |
| SNT501-13 | Optical ESB Bus Repeater Slave Module for SNB10D and SNT10D | S1 | U:1, H:0, F:1 | 968/EZ 196.08/06 | Valid |
| SNT511-13 | Optical ESB Bus Repeater Slave Module for long distance | S2 | U:0, H:0, F:1 | 968/EZ 196.30/11 | Valid |
| SEC401-11 | ESB Bus Coupler Module for SSC10S/D, SSC50S/D, SSC60S/D | S3 | U:0, H:0 | 968/EZ 196.27/10 | Valid |
| SEC402-21 | ESB Bus Coupler Module for SSC60S/D | S1 | U:0, H:1 | 968/EZ 196.28/10 | Valid |
| SSB401-13 | ESB Bus Interface Module for SNB10D | S1 | U:0, H:1 | 968/EZ 196.00/05 | Valid |

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Revision Release List:**Safety Control System ProSafe-RS, R3.01****Further interference free HW Components suitable for use with ProSafe-RS:**

| Model Name | Description | Revision Information | | Report – No. | Status |
|------------|-----------------------------------|----------------------|----------------------|------------------|--------|
| | | Style | Revision No. | | |
| ALR111-S01 | RS-232C Communication Module | S1 | U:0, H1:4, H2:2, F:3 | 968/EZ 196.00/05 | Valid |
| ALR121-S01 | RS-422/RS485 Communication Module | S1 | U:0, H1:4, H2:3, F:3 | 968/EZ 196.22/09 | Valid |

SIL3 compliant SW Components:

| Model Name | Description | Revision Information | | Report – No. | Status |
|------------|-----------------------------------------------|----------------------|--------------|------------------|--------|
| | | Style | Revision No. | | |
| CFS1100 | Safety Control Function for SCS (SSC10/SSC50) | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |
| CFS1300 | Safety Control Functions Package (SSC60) | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |
| CFS1350 | Node Expansion Package (SSC60) | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |

Further SW Components suitable for use to build up safety loops up to SIL3 with ProSafe-RS:

| Model Name | Description | Revision Information | | Report – No. | Status |
|------------|----------------------------------------------------------------------------------------------------------|----------------------|--------------|------------------|--------|
| | | Style | Revision No. | | |
| CHS5100 | Safety System Generation and Maintenance | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |
| CHS5400 | Document Map and Safety Manual as part of the Software and Electronic Instruction Manual Media – CHSKM02 | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |

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|------------|--------------------------------------------------------------------------------------------------------------------|----------------------|--------------|------------------|--------|
| | | Style | Revision No. | | |
| CHSKM30 | Software and Electronic Instruction Manual Media (Including: CHS5100, CHS2100, CHS2200, CHS5200, CHS5400, CHS5700) | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |
| CHS2100 | SOE Viewer | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |
| CHS2200 | SOE OPC Interface | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |
| CHS5200 | Engineering for CS3000 Integration | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |
| CHS5700 | FAST/TOOLS Integration Engineering Package | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |
| CHS5400 | Electronic Instruction Manual | N/A | 3.01.00 | 968/EZ 196.31/11 | Valid |
| CFS9153 | Modbus Communication Package (for ALR111, ALR121) | N/A | 1.01.30 | 968/EZ 196.04/06 | Valid |
| CHS5170 | Operation record management Package | N/A | R3.01.00 | 968/EZ 196.31/11 | Valid |

| | Released by Manufacturer: | Released by Test Institute: | Released by Certifier: |
|----------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Signed: |  Toshihiko Matsuda |  Karsten Rotzoll |  Heinz Gall |
| Date: | 2011-09-06 | 2011-09-06 | 2011-09-06 |

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Safety Control System ProSafe-RS, R3.01



Document-Revision

| Date | Version | Revisions / Changes | Author |
|-------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 2011-08-31 | 1.0 | R3.01: Windows 7 for SENG, new license management, operation record management, IT-security, new I/O modules (SAT145/SAR145) and terminal boards Improvement for the robustness of SDV144/SDV531/SDV541/SPW481/SPW482/SPW484 | Ro, He / ASI |
| 2011-09-06 | 1.1 | Revised revision list | Ro, He / ASI |

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