



Figure similar

SIPLUS S7-1500 AQ 4xU/I ST based on 6ES7532-5HD00-0AB0 with conformal coating, -40...+70 °C, analog output module 16-bit resolution, accuracy 0.3%. 4 channels in groups of 4, diagnostics; substitute value including infeed element, shielding bracket and shield terminal

| General information                                      |                                                     |
|----------------------------------------------------------|-----------------------------------------------------|
| Product type designation                                 | AQ 4xU/I ST                                         |
| Firmware version                                         |                                                     |
| • FW update possible                                     | Yes                                                 |
| based on                                                 | <a href="#">6ES7532-5HD00-0AB0</a>                  |
| Product function                                         |                                                     |
| • I&M data                                               | Yes; I&M0 to I&M3                                   |
| • Isochronous mode                                       | No                                                  |
| • Prioritized startup                                    | No                                                  |
| • Output range scalable                                  | No                                                  |
| Engineering with                                         |                                                     |
| • STEP 7 TIA Portal configurable/integrated from version | see entry ID: 109746275                             |
| Operating mode                                           |                                                     |
| • Oversampling                                           | No                                                  |
| • MSO                                                    | Yes                                                 |
| CIR - Configuration in RUN                               |                                                     |
| Reparameterization possible in RUN                       | Yes                                                 |
| Calibration possible in RUN                              | Yes                                                 |
| Supply voltage                                           |                                                     |
| Rated value (DC)                                         | 24 V                                                |
| permissible range, lower limit (DC)                      | 19.2 V                                              |
| permissible range, upper limit (DC)                      | 28.8 V                                              |
| Input current                                            |                                                     |
| Current consumption, max.                                | 190 mA; with 24 V DC supply                         |
| Power                                                    |                                                     |
| Power consumption from the backplane bus                 | 0.6 W                                               |
| Power loss                                               |                                                     |
| Power loss, typ.                                         | 4 W                                                 |
| Analog outputs                                           |                                                     |
| Number of analog outputs                                 | 4; > +60 °C max. 4x ±10 V permissible               |
| Voltage output, short-circuit protection                 | Yes                                                 |
| Voltage output, short-circuit current, max.              | 24 mA                                               |
| Current output, no-load voltage, max.                    | 22 V                                                |
| Cycle time (all channels), min.                          | 3.2 ms; independent of number of activated channels |
| Output ranges, voltage                                   |                                                     |
| • 0 to 10 V                                              | Yes                                                 |
| • 1 V to 5 V                                             | Yes                                                 |
| • -5 V to +5 V                                           | No                                                  |

|                                                                            |                                       |
|----------------------------------------------------------------------------|---------------------------------------|
| • -10 V to +10 V                                                           | Yes                                   |
| Output ranges, current                                                     |                                       |
| • 0 to 20 mA                                                               | Yes                                   |
| • -20 mA to +20 mA                                                         | Yes                                   |
| • 4 mA to 20 mA                                                            | Yes                                   |
| Connection of actuators                                                    |                                       |
| • for voltage output two-wire connection                                   | Yes                                   |
| • for voltage output four-wire connection                                  | Yes                                   |
| • for current output two-wire connection                                   | Yes                                   |
| Load impedance (in rated range of output)                                  |                                       |
| • with voltage outputs, min.                                               | 1 kΩ; 0.5 kΩ at 1 to 5 V              |
| • with voltage outputs, capacitive load, max.                              | 1 μF                                  |
| • with current outputs, max.                                               | 750 Ω                                 |
| • with current outputs, inductive load, max.                               | 10 mH                                 |
| Cable length                                                               |                                       |
| • shielded, max.                                                           | 800 m; for current, 200 m for voltage |
| Analog value generation for the outputs                                    |                                       |
| Integration and conversion time/resolution per channel                     |                                       |
| • Resolution with overrange (bit including sign), max.                     | 16 bit                                |
| • Conversion time (per channel)                                            | 0.5 ms                                |
| Settling time                                                              |                                       |
| • for resistive load                                                       | 1.5 ms                                |
| • for capacitive load                                                      | 2.5 ms                                |
| • for inductive load                                                       | 2.5 ms                                |
| Errors/accuracies                                                          |                                       |
| Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)     | 0.02 %                                |
| Linearity error (relative to output range), (+/-)                          | 0.15 %                                |
| Temperature error (relative to output range), (+/-)                        | 0.002 %/K                             |
| Crosstalk between the outputs, max.                                        | -100 dB                               |
| Repeat accuracy in steady state at 25 °C (relative to output range), (+/-) | 0.05 %                                |
| Operational error limit in overall temperature range                       |                                       |
| • Voltage, relative to output range, (+/-)                                 | 0.4 %                                 |
| • Current, relative to output range, (+/-)                                 | 0.4 %                                 |
| Basic error limit (operational limit at 25 °C)                             |                                       |
| • Voltage, relative to output range, (+/-)                                 | 0.2 %                                 |
| • Current, relative to output range, (+/-)                                 | 0.2 %                                 |
| Interrupts/diagnostics/status information                                  |                                       |
| Diagnostics function                                                       | Yes                                   |
| Substitute values connectable                                              | Yes                                   |
| Alarms                                                                     |                                       |
| • Diagnostic alarm                                                         | Yes                                   |
| Diagnoses                                                                  |                                       |
| • Monitoring the supply voltage                                            | Yes                                   |
| • Wire break                                                               | Yes; Only for output type "current"   |
| • Short-circuit                                                            | Yes; Only for output type "voltage"   |
| • Overflow/Underflow                                                       | Yes                                   |
| Diagnostics indication LED                                                 |                                       |
| • RUN LED                                                                  | Yes; green LED                        |
| • ERROR LED                                                                | Yes; red LED                          |
| • Monitoring of the supply voltage (PWR-LED)                               | Yes; green LED                        |
| • Channel status display                                                   | Yes; green LED                        |
| • for channel diagnostics                                                  | Yes; red LED                          |
| • for module diagnostics                                                   | Yes; red LED                          |
| Potential separation                                                       |                                       |
| Potential separation channels                                              |                                       |
| • between the channels                                                     | No                                    |
| • between the channels, in groups of                                       | 4                                     |

|                                                                                              |                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • between the channels and backplane bus                                                     | Yes                                                                                                                                                                                                             |
| • Between the channels and load voltage L+                                                   | Yes                                                                                                                                                                                                             |
| <b>Permissible potential difference</b>                                                      |                                                                                                                                                                                                                 |
| between S- and MANA (UCM)                                                                    | 8 V DC                                                                                                                                                                                                          |
| <b>Isolation</b>                                                                             |                                                                                                                                                                                                                 |
| Isolation tested with                                                                        | 707 V DC (type test)                                                                                                                                                                                            |
| <b>Standards, approvals, certificates</b>                                                    |                                                                                                                                                                                                                 |
| Suitable for safety-related tripping of standard modules                                     | Yes; From FS05                                                                                                                                                                                                  |
| <b>Ecological footprint</b>                                                                  |                                                                                                                                                                                                                 |
| • environmental product declaration                                                          | Yes                                                                                                                                                                                                             |
| <b>Global warming potential</b>                                                              |                                                                                                                                                                                                                 |
| — global warming potential, (total) [CO2 eq]                                                 | 37.6 kg                                                                                                                                                                                                         |
| — global warming potential, (during production) [CO2 eq]                                     | 11.1 kg                                                                                                                                                                                                         |
| — global warming potential, (during operation) [CO2 eq]                                      | 26.8 kg                                                                                                                                                                                                         |
| — global warming potential, (after end of life cycle) [CO2 eq]                               | -0.364 kg                                                                                                                                                                                                       |
| <b>Highest safety class achievable for safety-related tripping of standard modules</b>       |                                                                                                                                                                                                                 |
| • Performance level according to ISO 13849-1                                                 | PL d                                                                                                                                                                                                            |
| • Category according to ISO 13849-1                                                          | Cat. 3                                                                                                                                                                                                          |
| • SIL acc. to IEC 62061                                                                      | SIL 2                                                                                                                                                                                                           |
| • remark on safety-oriented shutdown                                                         | <a href="https://support.industry.siemens.com/cs/de/en/view/39198632">https://support.industry.siemens.com/cs/de/en/view/39198632</a>                                                                           |
| <b>Security</b>                                                                              |                                                                                                                                                                                                                 |
| signed firmware update                                                                       | No                                                                                                                                                                                                              |
| data integrity                                                                               | No                                                                                                                                                                                                              |
| <b>Ambient conditions</b>                                                                    |                                                                                                                                                                                                                 |
| <b>Ambient temperature during operation</b>                                                  |                                                                                                                                                                                                                 |
| • horizontal installation, min.                                                              | -40 °C; = Tmin (incl. condensation/frost)                                                                                                                                                                       |
| • horizontal installation, max.                                                              | 70 °C; = Tmax                                                                                                                                                                                                   |
| • vertical installation, min.                                                                | -40 °C; = Tmin                                                                                                                                                                                                  |
| • vertical installation, max.                                                                | 40 °C; = Tmax                                                                                                                                                                                                   |
| <b>Altitude during operation relating to sea level</b>                                       |                                                                                                                                                                                                                 |
| • Installation altitude above sea level, max.                                                | 5 000 m                                                                                                                                                                                                         |
| • Ambient air temperature-barometric pressure-altitude                                       | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| <b>Relative humidity</b>                                                                     |                                                                                                                                                                                                                 |
| • With condensation, tested in accordance with IEC 60068-2-38, max.                          | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)                                                                                                                             |
| <b>Resistance</b>                                                                            |                                                                                                                                                                                                                 |
| <b>Coolants and lubricants</b>                                                               |                                                                                                                                                                                                                 |
| — Resistant to commercially available coolants and lubricants                                | Yes; Incl. diesel and oil droplets in the air                                                                                                                                                                   |
| <b>Use in stationary industrial systems</b>                                                  |                                                                                                                                                                                                                 |
| — to biologically active substances according to EN 60721-3-3                                | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request                                                                                                              |
| — to chemically active substances according to EN 60721-3-3                                  | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *                                                                                                                        |
| — to mechanically active substances according to EN 60721-3-3                                | Yes; Class 3S4 incl. sand, dust, *                                                                                                                                                                              |
| <b>Use on ships/at sea</b>                                                                   |                                                                                                                                                                                                                 |
| — to biologically active substances according to EN 60721-3-6                                | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request                                                                                                                                   |
| — to chemically active substances according to EN 60721-3-6                                  | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *                                                                                                                        |
| — to mechanically active substances according to EN 60721-3-6                                | Yes; Class 6S3 incl. sand, dust; *                                                                                                                                                                              |
| <b>Usage in industrial process technology</b>                                                |                                                                                                                                                                                                                 |
| — Against chemically active substances acc. to EN 60654-4                                    | Yes; Class 3 (excluding trichlorethylene)                                                                                                                                                                       |
| — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level                                                                  |

| LC3 (salt spray) and level LB3 (oil)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
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| Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04                                                                                                                                                                                                                                                                                                                                                                                                         | * The supplied plug covers must remain in place over the unused interfaces during operation!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| Conformal coating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| <ul style="list-style-type: none"><li>• Coatings for printed circuit board assemblies acc. to EN 61086</li><li>• Protection against fouling acc. to EN 60664-3</li><li>• Military testing according to MIL-I-46058C, Amendment 7</li><li>• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li></ul>                                                                                                                                          | Yes; Class 2 for high reliability<br><br>Yes; Type 1 protection<br><br>Yes; Discoloration of coating possible during service life<br><br>Yes; Conformal coating, Class A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| Dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| Width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 35 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| Height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 147 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| Depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 129 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| Weights                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| Weight, approx.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 310 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| Classifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <table><tr><th></th><th>Version</th><th>Classification</th></tr><tr><td>eClass</td><td>16</td><td>27-24-22-01</td></tr><tr><td>eClass</td><td>14</td><td>27-24-22-01</td></tr><tr><td>eClass</td><td>12</td><td>27-24-22-01</td></tr><tr><td>eClass</td><td>9.1</td><td>27-24-22-01</td></tr><tr><td>eClass</td><td>9</td><td>27-24-22-01</td></tr><tr><td>eClass</td><td>8</td><td>27-24-22-01</td></tr><tr><td>eClass</td><td>7.1</td><td>27-24-22-01</td></tr><tr><td>eClass</td><td>6</td><td>27-24-22-01</td></tr><tr><td>ETIM</td><td>10</td><td>EC001420</td></tr><tr><td>ETIM</td><td>9</td><td>EC001420</td></tr><tr><td>ETIM</td><td>8</td><td>EC001420</td></tr><tr><td>ETIM</td><td>7</td><td>EC001420</td></tr><tr><td>IDEA</td><td>4</td><td>3562</td></tr><tr><td>UNSPSC</td><td>15</td><td>32-15-17-05</td></tr></table> |                                | Version | Classification | eClass | 16 | 27-24-22-01 | eClass | 14 | 27-24-22-01 | eClass | 12 | 27-24-22-01 | eClass | 9.1 | 27-24-22-01 | eClass | 9 | 27-24-22-01 | eClass | 8 | 27-24-22-01 | eClass | 7.1 | 27-24-22-01 | eClass | 6 | 27-24-22-01 | ETIM | 10 | EC001420 | ETIM | 9 | EC001420 | ETIM | 8 | EC001420 | ETIM | 7 | EC001420 | IDEA | 4 | 3562 | UNSPSC | 15 | 32-15-17-05 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Classification                 |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 27-24-22-01                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 27-24-22-01                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 27-24-22-01                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 27-24-22-01                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27-24-22-01                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27-24-22-01                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 27-24-22-01                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| eClass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27-24-22-01                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| ETIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EC001420                       |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| ETIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EC001420                       |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| ETIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EC001420                       |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| ETIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EC001420                       |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| IDEA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3562                           |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| UNSPSC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 32-15-17-05                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| Approvals / Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| <div><div><br/>EG-Konf.</div><div></div><div><a href="#">Manufacturer Declaration</a></div><div><a href="#">China RoHS</a></div><div><br/>UL</div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EMV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | For use in hazardous locations |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| <a href="#">China RoHS</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <div><div><br/>EG-Konf.</div><div></div><div></div><div><br/>RCM</div><div><br/>CCC</div></div>                                                                                                                                                                                                                                                                                                       |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| For use in hazardous locations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Maritime application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Environment                    |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |
| <div><br/>ATEX</div> <div><br/>IECEX</div> <div><br/>DNV</div> <div><br/>EPD</div>                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |         |                |        |    |             |        |    |             |        |    |             |        |     |             |        |   |             |        |   |             |        |     |             |        |   |             |      |    |          |      |   |          |      |   |          |      |   |          |      |   |      |        |    |             |

