



Figure similar

SIMATIC S7-1200 G2: compact CPU 1212C DC/DC/DC; power supply: DC 20.4-28.8 V DC; onboard I/O: 8x DI 24 V DC; 6x DO 24 V DC; memory: program 150 KB data: 500 KB, retentivity: 20 KB

General information	
Product type designation	CPU 1212C DC/DC/DC
Firmware version	V4.1
<ul style="list-style-type: none"> <li>FW update possible</li> </ul>	Yes
Product function	
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> <li>Isochronous mode</li> </ul>	Yes; For PROFINET only
<ul style="list-style-type: none"> <li>SysLog</li> </ul>	Yes
Engineering with	
<ul style="list-style-type: none"> <li>Programming package</li> </ul>	STEP 7 V21 or higher
Supply voltage	
Rated value (DC)	
<ul style="list-style-type: none"> <li>24 V DC</li> </ul>	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption (rated value)	125 mA; CPU only
Current consumption, max.	700 mA; CPU with all expansion modules
Inrush current, max.	12 A; at 28.8 V DC
$I^2t$	0.5 A <sup>2</sup> ·s
Output current	
for backplane bus (5 V DC), max.	1 000 mA; Max. 5 V DC for SM and CM
Encoder supply	
24 V encoder supply	
<ul style="list-style-type: none"> <li>24 V</li> </ul>	Yes; L+ minus 4 V DC min.
<ul style="list-style-type: none"> <li>Short-circuit protection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Output current, max.</li> </ul>	300 mA
Power loss	
Power loss, typ.	3 W
Storage	
Work memory	
<ul style="list-style-type: none"> <li>integrated</li> </ul>	650 kbyte
<ul style="list-style-type: none"> <li>integrated (for program)</li> </ul>	150 kbyte
<ul style="list-style-type: none"> <li>integrated (for data)</li> </ul>	500 kbyte

<b>Load memory</b>	
<ul style="list-style-type: none"> <li>integrated</li> </ul>	8 Mbyte
<ul style="list-style-type: none"> <li>Plug-in (SIMATIC Memory Card), max.</li> </ul>	32 Gbyte; with SIMATIC memory card
<b>Backup</b>	
<ul style="list-style-type: none"> <li>present</li> </ul>	Yes
<ul style="list-style-type: none"> <li>maintenance-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>without battery</li> </ul>	Yes
<b>CPU processing times</b>	
for bit operations, typ.	37 ns; / instruction
for word operations, typ.	30 ns; / instruction
for floating point arithmetic, typ.	74 ns; / instruction
<b>CPU-blocks</b>	
Number of elements (total)	4 000; Blocks (OB, FB, FC, DB) and UDTs
<b>OB</b>	
<ul style="list-style-type: none"> <li>Number of free cycle OBs</li> </ul>	100
<ul style="list-style-type: none"> <li>Number of time alarm OBs</li> </ul>	20
<ul style="list-style-type: none"> <li>Number of delay alarm OBs</li> </ul>	20
<ul style="list-style-type: none"> <li>Number of cyclic interrupt OBs</li> </ul>	20; with minimum OB 3x cycle of 1 ms
<ul style="list-style-type: none"> <li>Number of process alarm OBs</li> </ul>	50
<ul style="list-style-type: none"> <li>Number of DPV1 alarm OBs</li> </ul>	3
<ul style="list-style-type: none"> <li>Number of isochronous mode OBs</li> </ul>	1
<ul style="list-style-type: none"> <li>Number of startup OBs</li> </ul>	100
<ul style="list-style-type: none"> <li>Number of asynchronous error OBs</li> </ul>	4
<ul style="list-style-type: none"> <li>Number of synchronous error OBs</li> </ul>	2
<ul style="list-style-type: none"> <li>Number of diagnostic alarm OBs</li> </ul>	1
<b>Data areas and their retentivity</b>	
Retentive data area (incl. timers, counters, flags), max.	20 kbyte
<b>Flag</b>	
<ul style="list-style-type: none"> <li>Size, max.</li> </ul>	8 kbyte; Size of bit memory address area
<b>Local data</b>	
<ul style="list-style-type: none"> <li>per priority class, max.</li> </ul>	64 kbyte; max. 16 KB per block
<b>Address area</b>	
<b>I/O address area</b>	
<ul style="list-style-type: none"> <li>Inputs</li> </ul>	1 kbyte; All inputs are in the process image
<ul style="list-style-type: none"> <li>Outputs</li> </ul>	1 kbyte; All outputs are in the process image
<b>Process image</b>	
<ul style="list-style-type: none"> <li>Inputs, adjustable</li> </ul>	1 kbyte
<ul style="list-style-type: none"> <li>Outputs, adjustable</li> </ul>	1 kbyte
<b>Hardware configuration</b>	
Number of modules per system, max.	6
<ul style="list-style-type: none"> <li>number of expansion boards (SB, CB, BB)</li> </ul>	1
<ul style="list-style-type: none"> <li>number of signal modules (SM)</li> </ul>	6; depends on the number of CMs
<ul style="list-style-type: none"> <li>number of communications modules (CM)</li> </ul>	3
<b>Time of day</b>	
<b>Clock</b>	
<ul style="list-style-type: none"> <li>Hardware clock (real-time)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Backup time</li> </ul>	480 h; Typical
<ul style="list-style-type: none"> <li>Deviation per day, max.</li> </ul>	2 s; at 25 °C
<b>Clock synchronization</b>	
<ul style="list-style-type: none"> <li>on Ethernet via NTP</li> </ul>	Yes
<b>Digital inputs</b>	
Number of digital inputs	8; Integrated
<ul style="list-style-type: none"> <li>of which inputs usable for technological functions</li> </ul>	8; HSC (High Speed Counting)
Sourcing/sinking input	Yes
<b>Number of simultaneously controllable inputs</b>	
all mounting positions	
— up to 40 °C, max.	8
<b>Input voltage</b>	

<ul style="list-style-type: none"> <li>Rated value (DC)</li> <li>for signal "0"</li> <li>for signal "1"</li> </ul>	24 V 5 V DC or 0.5 mA 15 V DC at 2.5 mA
<b>Input delay (for rated value of input voltage)</b>	
for standard inputs	
— parameterizable	0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 µs; 0.05 / 0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 ms
— at "0" to "1", min.	0.1 µs
— at "0" to "1", max.	20 µs
for interrupt inputs	
— Parameterizable	Yes
for technological functions	
— parameterizable	single phase: 6 HSCs @ 100 kHz & 2 standard @ 30 kHz, quadrature phase: 6 HSCs @ 80 kHz & 2 standard @ 20 kHz
<b>Cable length</b>	
<ul style="list-style-type: none"> <li>shielded, max.</li> <li>unshielded, max.</li> </ul>	500 m; 50 m for technological functions 300 m; for technological functions: No
<b>Digital outputs</b>	
Number of digital outputs	6; 20 kHz or 100 kHz
<ul style="list-style-type: none"> <li>of which high-speed outputs</li> </ul>	4; 100 kHz (Qa.0 - Qa.3)
Limitation of inductive shutdown voltage to	L+ (-40 V)
<b>Switching capacity of the outputs</b>	
<ul style="list-style-type: none"> <li>with resistive load, max.</li> <li>on lamp load, max.</li> </ul>	0.5 A 5 W
<b>Output voltage</b>	
<ul style="list-style-type: none"> <li>for signal "0", max.</li> <li>for signal "1", min.</li> </ul>	0.1 V; with 10 kOhm load 20 V
<b>Output current</b>	
<ul style="list-style-type: none"> <li>for signal "1" rated value</li> <li>for signal "0" residual current, max.</li> </ul>	0.5 A 10 µA
<b>Output delay with resistive load</b>	
<ul style="list-style-type: none"> <li>"0" to "1", max.</li> <li>"1" to "0", max.</li> </ul>	1 µs; of the pulse outputs (Q a.0 to Q a.3), max. 1.0 µs; of the standard outputs (Qa.4 to Qa.5), max. 50 µs; 3 µs; of the pulse outputs (Q a.0 to Q a.3), max. 3.0 µs; of the standard outputs (Qa.4 to Qa.5), max. 200 µs;
<b>Switching frequency</b>	
<ul style="list-style-type: none"> <li>of the pulse outputs, with resistive load, max.</li> </ul>	100 kHz; 100 kHz max. (Qa.0 - Qa.3), 20 kHz max. (Qa.4 - Qa.5)
<b>Relay outputs</b>	
<ul style="list-style-type: none"> <li>Number of relay outputs</li> </ul>	0
<b>Cable length</b>	
<ul style="list-style-type: none"> <li>shielded, max.</li> <li>unshielded, max.</li> </ul>	500 m 150 m
<b>Analog inputs</b>	
Number of analog inputs	0
<b>Analog outputs</b>	
Number of analog outputs	0
<b>Encoder</b>	
Connectable encoders	
<ul style="list-style-type: none"> <li>2-wire sensor</li> </ul>	Yes
<b>Interfaces</b>	
Number of PROFINET interfaces	1
<b>1. Interface</b>	
Interface type	PROFINET
Isolated	Yes
automatic detection of transmission rate	Yes
Autonegotiation	Yes
Autocrossing	Yes
<b>Interface types</b>	
<ul style="list-style-type: none"> <li>RJ 45 (Ethernet)</li> <li>— Transmission rate, max.</li> </ul>	Yes; X1 100 Mbit/s

• Number of ports	2
• integrated switch	Yes
<b>Protocols</b>	
• IP protocol	Yes; IPv4
• PROFINET IO Controller	Yes
• PROFINET IO Device	Yes
• SIMATIC communication	Yes
• Open IE communication	Yes; Optionally also encrypted
• Web server	Yes
• Media redundancy	Yes
<b>PROFINET IO Controller</b>	
• Transmission rate, max.	100 Mbit/s
<b>Services</b>	
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
— Isochronous mode	Yes
— IRT	Yes
— Dynamic Frame Packing (DFP)	Yes
— PROFlenergy	Yes; per user program
— Prioritized startup	Yes
— Number of IO devices with prioritized startup, max.	16
— Number of connectable IO Devices, max.	31
— Of which IO devices with IRT, max.	31
— Number of connectable IO Devices for RT, max.	31
— of which in line, max.	31
— Number of IO Devices that can be simultaneously activated/deactivated, max.	8
— Updating time	The minimum value of the update time also depends on the communication component set for PROFINET IO, on the number of IO devices and the quantity of configured user data.
<b>Update time for IRT</b>	
— for send cycle of 1 ms	1 ms to 16 ms
— for send cycle of 2 ms	2 ms to 32 ms
— for send cycle of 4 ms	4 ms to 64 ms
<b>Update time for RT</b>	
— for send cycle of 1 ms	1 ms to 512 ms
— for send cycle of 2 ms	2 ms to 512 ms
— for send cycle of 4 ms	4 ms to 512 ms
<b>PROFINET IO Device</b>	
<b>Services</b>	
— PG/OP communication	Yes; encryption with TLS V1.3 pre-selected
— Isochronous mode	No
— IRT	Yes
— Dynamic Frame Packing (DFP)	No
— PROFlenergy	Yes; per user program
— Prioritized startup	Yes
— Shared device	Yes
— Number of IO Controllers with shared device, max.	2
— Asset management record	Yes
<b>Protocols</b>	
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	No
OPC UA	Yes; OPC UA Server
AS-Interface	No
<b>Protocols (Ethernet)</b>	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes

<b>Number of connections</b>	
<ul style="list-style-type: none"> <li>● Number of connections, max.</li> <li>● Number of connections reserved for ES/HMI/web</li> <li>● Number of connections via integrated interfaces</li> <li>● Number of S7 routing paths</li> </ul>	<p>128; via integrated interfaces of the CPU and connected CPs / CMs</p> <p>10</p> <p>88</p> <p>16</p>
<b>Redundancy mode</b>	
<ul style="list-style-type: none"> <li>● PROFINET system redundancy (S2)</li> <li>● PROFINET system redundancy (R1)</li> </ul>	<p>No</p> <p>No</p>
<b>Media redundancy</b>	
<ul style="list-style-type: none"> <li>— MRP</li> <li>— MRP interconnection, supported</li> <li>— MRPD</li> <li>— Number of stations in the ring, max.</li> </ul>	<p>Yes; as MRP redundancy manager and/or MRP client</p> <p>Yes</p> <p>Yes; Requirement: IRT</p> <p>50</p>
<b>SIMATIC communication</b>	
<ul style="list-style-type: none"> <li>● PG/OP communication</li> <li>● S7 routing</li> <li>● S7 communication, as server</li> <li>● S7 communication, as client</li> <li>● User data per job, max.</li> </ul>	<p>Yes; encryption with TLS V1.3 pre-selected</p> <p>Yes</p> <p>Yes</p> <p>Yes; only PUT/GET</p> <p>See online help (S7 communication, user data size)</p>
<b>Open IE communication</b>	
<ul style="list-style-type: none"> <li>● TCP/IP <ul style="list-style-type: none"> <li>— Data length, max.</li> <li>— several passive connections per port, supported</li> </ul> </li> <li>● ISO-on-TCP (RFC1006) <ul style="list-style-type: none"> <li>— Data length, max.</li> </ul> </li> <li>● UDP <ul style="list-style-type: none"> <li>— Data length, max.</li> </ul> </li> <li>● DHCP</li> <li>● DNS</li> <li>● SNMP</li> <li>● DCP</li> <li>● LLDP</li> <li>● encryption</li> </ul>	<p>Yes</p> <p>64 kbyte</p> <p>Yes</p> <p>Yes</p> <p>64 kbyte</p> <p>Yes</p> <p>2 kbyte; 1 472 bytes for UDP broadcast</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes; Optional</p>
<b>Web server</b>	
<ul style="list-style-type: none"> <li>● supported</li> <li>● HTTPS</li> <li>● web API <ul style="list-style-type: none"> <li>— Number of sessions, max.</li> <li>— HTTP request body, max.</li> </ul> </li> <li>● User-defined websites</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>30</p> <p>131 072 byte</p> <p>Yes</p>
<b>OPC UA</b>	
<ul style="list-style-type: none"> <li>● Runtime license required</li> <li>● OPC UA Server <ul style="list-style-type: none"> <li>— Application authentication</li> <li>— Security policies</li> <li>— User authentication</li> <li>— Number of sessions, max.</li> <li>— Number of subscriptions per session, max.</li> <li>— Sampling interval, min.</li> <li>— Publishing interval, min.</li> <li>— Number of server methods, max.</li> <li>— Number of monitored items, recommended max.</li> <li>— Number of server interfaces, max.</li> <li>— Number of nodes for user-defined server interfaces, max.</li> </ul> </li> </ul>	<p>Yes; "Basic" license required</p> <p>Yes; data access (read, write, subscribe), method call, runtime license required</p> <p>Yes</p> <p>available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss</p> <p>"anonymous" or by user name &amp; password</p> <p>10</p> <p>5</p> <p>100 ms</p> <p>200 ms</p> <p>20</p> <p>1 000</p> <p>2</p> <p>2 000</p>
<b>Further protocols</b>	
<ul style="list-style-type: none"> <li>● MODBUS</li> </ul>	<p>Yes; MODBUS RTU/TCP</p>
<b>Communication functions</b>	

<b>S7 communication</b>	
<ul style="list-style-type: none"> <li>supported</li> <li>as server</li> <li>as client</li> <li>User data per job, max.</li> </ul>	Yes Yes Yes See online help (S7 communication, user data size)
<b>Number of connections</b>	
<ul style="list-style-type: none"> <li>overall</li> </ul>	PG Connections: 4 reserved; HMI Connections: 4 reserved / 82 max; S7 Connections: 78 max; Open User Connections: 78 max; Web Connections: 2 reserved / 80 max; Total Connections: 10 reserved / 88 max
<b>S7 message functions</b>	
Number of login stations for message functions, max.	32
number of subscriptions, max.	250
number of tags/attributes for subscriptions, max.	2 000
Program alarms	Yes
Number of configurable program messages, max.	5 000
Number of loadable program messages in RUN, max.	2 500
Number of simultaneously active program alarms	
<ul style="list-style-type: none"> <li>Number of program alarms</li> <li>Number of alarms for system diagnostics</li> <li>Number of alarms for motion technology objects</li> </ul>	600 100 160
<b>Test commissioning functions</b>	
Status block	Yes; Up to 8 simultaneously (in total across all ES clients)
Single step	No
Profiling	Yes
<b>Status/control</b>	
<ul style="list-style-type: none"> <li>Status/control variable</li> <li>Variables</li> <li>Number of variables, max.               <ul style="list-style-type: none"> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> </ul> </li> </ul>	Yes Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters 200; per job 200; per job
<b>Forcing</b>	
<ul style="list-style-type: none"> <li>Forcing</li> <li>Forcing, variables</li> <li>Number of variables, max.</li> </ul>	Yes Peripheral inputs/outputs 200
<b>Diagnostic buffer</b>	
<ul style="list-style-type: none"> <li>present</li> <li>Number of entries, max.               <ul style="list-style-type: none"> <li>— of which powerfail-proof</li> </ul> </li> </ul>	Yes 500 100
<b>Traces</b>	
<ul style="list-style-type: none"> <li>Number of configurable Traces</li> <li>Memory size per trace, max.</li> </ul>	4 512 kbyte
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostics indication LED</b>	
<ul style="list-style-type: none"> <li>RUN/STOP LED</li> <li>ERROR LED</li> <li>MAINT LED</li> </ul>	Yes Yes Yes
<b>Supported technology objects</b>	
<b>Motion Control</b>	
<ul style="list-style-type: none"> <li>Number of available Motion Control resources for technology objects</li> <li>Required Motion Control resources               <ul style="list-style-type: none"> <li>per speed-controlled axis</li> <li>per positioning axis</li> <li>per synchronous axis</li> <li>per external encoder</li> <li>per output cam</li> <li>per cam track</li> <li>per probe</li> </ul> </li> <li>Number of available Extended Motion Control resources for technology objects</li> </ul>	Yes 800 40 80 160 80 20 160 40 40

• Required Extended Motion Control resources	
— per cam (1 000 points and 50 segments)	2
— for each set of kinematics	30
• kinematics functions	
— kinematics with up to 4 interpolating axes	Yes
— kinematics with 5 or more interpolating axes	No
— user-defined kinematics	No
— SIMATIC Safe Kinematics	No
• Positioning axis	
— Number of positioning axes at motion control cycle of 4 ms (typical value)	10
— Number of positioning axes at motion control cycle of 8 ms (typical value)	10

### Integrated Functions

Counter	Yes
• Number of counters	8
• Counting frequency, max.	100 kHz; Ia.0 to Ia.5: 100 kHz (80 kHz in quadrature mode), Ia.6 to Ia.7: 30 kHz (20 kHz in quadrature mode)
Frequency measurement	Yes
controlled positioning	Yes
Number of position-controlled positioning axes, max.	8
Number of positioning axes via pulse-direction interface	Up to 4 with SB 1222
PID controller	Yes
Number of pulse outputs	8; individually assigned to CPU and Signal Board
Limit frequency (pulse)	100 kHz

### Potential separation

Potential separation digital inputs	
• Potential separation digital inputs	Yes; field side to logic: 707 V DC (type test)
• between the channels	No
• Number of potential groups	1
Potential separation digital outputs	
• Potential separation digital outputs	Yes
• between the channels	No
• Number of potential groups	1

### EMC

Interference immunity against discharge of static electricity	
• Interference immunity against discharge of static electricity acc. to IEC 61000-4-2	Yes
— Test voltage at air discharge	8 kV
— Test voltage at contact discharge	6 kV
Interference immunity to cable-borne interference	
• Interference immunity on supply lines acc. to IEC 61000-4-4	Yes
• Interference immunity on signal cables acc. to IEC 61000-4-4	Yes
Interference immunity against voltage surge	
• Interference immunity on supply lines acc. to IEC 61000-4-5	Yes
Interference immunity against conducted variable disturbance induced by high-frequency fields	
• Interference immunity against high-frequency radiation acc. to IEC 61000-4-6	Yes
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	Yes; Group 1
• Limit class B, for use in residential areas	Yes; When appropriate measures are used to ensure compliance with the limits for Class B according to EN 55011

### Degree and class of protection

IP degree of protection	IP20
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### Standards, approvals, certificates

Siemens Eco Profile (SEP)	Siemens EcoTech
CE mark	Yes
UL approval	Yes

cULus	Yes
FM approval	No
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
<b>Ecological footprint</b>	
• environmental product declaration	Yes; type 2 acc. to ISO 14021
<b>Global warming potential</b>	
— global warming potential, (total) [CO2 eq]	61.1 kg
— global warming potential, (during production) [CO2 eq]	12.4 kg
— global warming potential, (during operation) [CO2 eq]	49.2 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-0.63 kg
<b>Security</b>	
PROFINET Security Class	1
signed firmware update	Yes
Secure Boot	Yes
<b>Ambient conditions</b>	
<b>Free fall</b>	
• Fall height, max.	0.3 m; five times, in product package
<b>Ambient temperature during operation</b>	
• min.	-20 °C; No condensation
• max.	40 °C; at max. voltages and max. specifications
• horizontal installation, min.	-20 °C; No condensation
• horizontal installation, max.	60 °C; at rated voltages, 50 % of max. specification and alternate IO active
• vertical installation, min.	-20 °C; No condensation
• vertical installation, max.	50 °C; at rated voltages, 50 % of max. specification and alternate IO active
<b>Ambient temperature during storage/transportation</b>	
• min.	-40 °C
• max.	70 °C
<b>Air pressure acc. to IEC 60068-2-13</b>	
• Operation, min.	540 hPa
• Operation, max.	1 140 hPa
• Storage/transport, min.	540 hPa
• Storage/transport, max.	1 140 hPa
<b>Altitude during operation relating to sea level</b>	
• Installation altitude, min.	-1 000 m
• Installation altitude, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
<b>Relative humidity</b>	
• Operation, max.	95 %; no condensation
<b>Vibrations</b>	
• Vibration resistance during operation acc. to IEC 60068-2-6	3.5 mm from 5 - 8.4 Hz, 1g from 8.4 - 150 Hz
• Operation, tested according to IEC 60068-2-6	Yes
<b>Shock testing</b>	
• tested according to IEC 60068-2-27	Yes; IEC 68, Part 2-27 half-sine: strength of the shock 15 g (peak value), duration 11 ms
<b>Pollutant concentrations</b>	
• SO2 at RH < 60% without condensation	SO2: < 0.5 ppm; H2S: < 0.1 ppm; RH < 60 % condensation-free
<b>Configuration</b>	
<b>Programming</b>	
Programming language	
— LAD	Yes
— FBD	Yes
— SCL	Yes
<b>Know-how protection</b>	
• User program protection/password protection	Yes
• Copy protection	No

• Block protection	Yes
<b>Access protection</b>	
• protection of confidential configuration data	Yes
• Protection level: Write protection	Yes
• Protection level: Read/write protection	Yes
• Protection level: Complete protection	Yes
• User administration	Yes; device-wide and centralized
• Number of users	100
• Number of groups	100
• Number of roles	50

<b>Cycle time monitoring</b>	
• adjustable	Yes

<b>Dimensions</b>	
Width	70 mm
Height	125 mm
Depth	100 mm

<b>Weights</b>	
Weight, approx.	319 g

<b>Classifications</b>			
		<b>Version</b>	<b>Classification</b>
	eClass	14	27-24-22-07
	eClass	12	27-24-22-07
	eClass	9.1	27-24-22-07
	eClass	9	27-24-22-07
	eClass	8	27-24-22-07
	eClass	7.1	27-24-22-07
	eClass	6	27-24-22-07
	ETIM	10	EC000236
	ETIM	9	EC000236
	ETIM	8	EC000236
	ETIM	7	EC000236
	IDEA	4	3565
	UNSPSC	15	32-15-17-05

**Approvals / Certificates**

**General Product Approval**



[Miscellaneous](#)



**General Product Approval**



[TUEV](#)

[China RoHS](#)



[Manufacturer Declaration](#)

**EMV For use in hazardous locations**



[Miscellaneous](#)



[CCC-Ex](#)

[CCC-Ex](#)

**Test Certificates Maritime application**

[Type Test Certificates/Test Report](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application	Environment	Industrial Communication
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[KR \(Korean Register of Shipping\)](#)



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5/21/2026