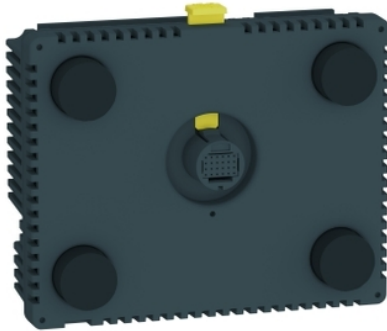




Product availability: Non-Stock - Not normally stocked in distribution facility



Main

Range of product	Magelis SCU
Product or component type	Controller
Device presentation	Basic element

Complementary

Supply	External source
[Us] rated supply voltage	24 V at 20.4...28.8 V DC
Immunity to microbreaks	<= 10 ms
Inrush current	<= 30 A
Power consumption in W	15 W
Local signalling	No indicator
Number of pages	Limited by internal memory capacity
Software designation	SoMachine
Operating system	Magelis
Processor name	CPU RISC
Processor frequency	333 MHz
Memory description	128 MB flash memory, type: NAND 128 kB internal data storage memory, type: FRAM 128 MB application run memory, type: DRAM
Integrated connection type	1 RJ45 connector serial link with RS232/RS485 interface at <= 115.2 kbits/s 1 RJ45 connector Ethernet TCP/IP 1 USB 2.0 type mini B 1 USB 2.0 type A SUB-D 9 connector CANopen master bus
Realtime clock	Built-in
Downloadable protocols	Modbus CANopen Modbus TCP/IP
Fixing mode	By 1 nut - diameter: Ø 22 mm, mounting on: 1...6 mm thick panel
Enclosure material	PC/PBT
Shock resistance	147 m/s ² (duration=11 ms) conforming to IEC 60068-2-27 on DIN rail 294 m/s ² (duration=6 ms) conforming to IEC 60068-2-27 on panel mounting
Vibration resistance	+/- 3.5 mm (f=5...9 Hz) conforming to IEC 60068-2-6 1 gn (f=9...150 Hz) conforming to IEC 60068-2-6

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Electromagnetic compatibility	<p>Electrostatic discharge immunity test - test level: 8 kV, air discharge conforming to IEC 61000-4-2</p> <p>Electrostatic discharge immunity test - test level: 6 kV, contact discharge conforming to IEC 61000-4-2</p> <p>Susceptibility to electromagnetic fields - test level: 10 V/m, 80 MHz...3 GHz conforming to IEC 61000-4-3</p> <p>Electrical fast transient/burst immunity test - test level: 2 kV, power lines conforming to IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test - test level: 1 kV, between analogue I/O and operating voltage conforming to IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test - test level: 2 kV, relay wires conforming to IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test - test level: 1 kV, Ethernet line conforming to IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test - test level: 1 kV, COM line conforming to IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test - test level: 1 kV, CAN line conforming to IEC 61000-4-4</p> <p>Surge immunity test - test level: 2 kV, power supply (common mode) conforming to IEC 61000-4-5</p> <p>Surge immunity test - test level: 1 kV, power supply (differential mode) conforming to IEC 61000-4-5</p> <p>Surge immunity test - test level: 1 kV common mode, digital I/O conforming to IEC 61000-4-5</p> <p>Surge immunity test - test level: 0.5 kV differential mode, digital I/O conforming to IEC 61000-4-5</p> <p>Conducted RF disturbances - test level: 10 V, 0.15...80 MHz conforming to IEC 61000-4-6</p> <p>Conducted emission - test level: 150 kHz...30 MHz conforming to EN 55011</p> <p>Radiated emission - test level: 30 MHz...1 GHz conforming to EN 55011</p>
Discrete input number	<p>2 fast input (normal mode) conforming to IEC 61131-2 Type 1</p> <p>6 digital input conforming to IEC 61131-2 Type 1</p>
Discrete input voltage	24 V DC discrete input logic:sink or source (positive/negative)
Number of common point	<p>1 fast input (HSC mode)</p> <p>1 digital input</p>
Discrete input current	<p>7.83 mA fast input</p> <p>5 mA digital</p>
Input impedance	<p>2.81 kOhm</p> <p>4.7 kOhm</p>
Sensor power supply	<p>15...28.8 V DC, voltage (state 1): ≥ 15 V, current (state 1): ≥ 5 mA, voltage (state 0): ≤ 5 V, current (state 0): ≤ 1.5 mA</p> <p>15...28.8 V DC, voltage (state 1): ≥ 15 V, current (state 1): ≥ 2.5 mA, voltage (state 0): ≤ 5 V, current (state 0): ≤ 1 mA</p>
Configurable filtering time	<p>0 ms no filter (none)</p> <p>0.004...0.04 ms bounce filter (latch/event and cumulative filter by step $N \times 0.5$ms ($64 \geq N \geq 2$))</p> <p>3...12 ms integrator (none/run/stop)</p>
Input frequency	<p>100 kHz for fast input (encoder mode) - control type A/B</p> <p>100 kHz for fast input - control type single phase</p> <p>100 kHz for fast input - control type pulse/direction</p>
Cable distance between devices	<p>Shielded cable: 10 m for fast input</p> <p>Shielded cable: 100 m for digital input</p> <p>Unshielded cable: 50 m for digital input</p>
Connection pitch	0.14 in (3.5 mm)
Overvoltage protection	With
Isolation between channels and internal logic	500 V DC
Isolation between channels	None
Discrete output number	<p>2 fast output (normal mode), output logic: source</p> <p>6 digital output, output logic: source</p>
Discrete output voltage	<p>24 V DC (voltage limit: 19.2...28.8 V) with transistor discrete output(s)</p> <p>24 V DC (voltage limit: 5...30 V) with relay discrete output(s)</p> <p>220 V AC (voltage limit: 100...250 V) with relay discrete output(s)</p>
Input/output number	<p>2 fast input, terminal(s): F10...F11</p> <p>2 fast output, terminal(s): FQ0...FQ1</p> <p>6 digital input, terminal(s): DI0...DI5</p> <p>6 digital output, terminal(s): DQ0...DQ5</p>
Discrete output current	<p>300 mA, response time 2 ms fast output (normal mode)</p> <p>50 mA, response time 2 ms fast output (PWM or PTO mode)</p> <p>2 A (current per output common:4 A), response time 5 ms with opening contact for digital output</p> <p>2 A (current per output common:4 A), response time 2 ms with closing contact for digital output</p>

Insulation resistance	> 10 MOhm between the I/O and internal logic > 10 MOhm between power supply and earth
Output frequency	<= 100 kHz for fast output (PTO mode) <= 1 kHz for fast output (PWM mode)
Absolute accuracy error	+/- 0.1 % of full scale of cyclic ratio 1...99% fast output (PWM or PTO mode) 1 % of full scale of cyclic ratio 1...99% fast output (PWM or PTO mode) +/- 5 % of full scale of cyclic ratio 10...90% fast output (PWM or PTO mode) +/- 10 % of full scale of cyclic ratio 20...80% fast output (PWM or PTO mode) +/- 15 % of full scale of cyclic ratio 30...70% fast output (PWM or PTO mode)
Analogue input number	2 analog input 2 RTDs
Analogue input range	0...20 mA/4...20 mA - resolution: 12 bits, input impedance: 250 Ohm (tolerance: +/- 1 %) -10...+10 V or 0...10 V - resolution: 12 bits + sign, input impedance: >= 1 MOhm
Analogue input type	RTD at - 200...600 °C - resolution: 16 bits temperature probe: Pt 100/Pt 1000 RTD at - 50...200 °C - resolution: 16 bits temperature probe: Ni 100/Ni 1000 RTD at - 200...760 °C - resolution: 16 bits (thermocouple J) RTD at - 240...1370 °C - resolution: 16 bits (thermocouple K) RTD at 0...1600 °C - resolution: 16 bits (thermocouple R) RTD at 200...1800 °C - resolution: 16 bits (thermocouple B) RTD at 0...1600 °C - resolution: 16 bits (thermocouple S) RTD at - 200...400 °C - resolution: 16 bits (thermocouple T) RTD at - 200...900 °C - resolution: 16 bits (thermocouple E) RTD at - 200...1300 °C - resolution: 16 bits (thermocouple N)
Analogue output number	2 resistive load 12 bits + sign
Analogue output range	0...20 mA/4...20 mA (> 300 Ohm) for open-circuit -10...10 V/0...10 V (> 2 kOhm) short-circuit
Height	1.99 in (50.65 mm)
Width	5.04 in (128 mm)
Depth	4.02 in (102 mm)
Product weight	0.88 lb(US) (0.398 kg)

Environment

Standards	IEC 61000-6-2 RoHS compliant ANSI/ISA 12-12-01 RoHS China SJ/T 11363-2006 WEEE directive 2002/96/EC CSA C22.2 No 213 Class I Division 2 FCC Class A UL 508 EN 61131-2
Product certifications	CULus CSA 22-2 No 142 GOST CULus 508 C-Tick KCC CUL 1604 Class 1 Division 2
Marking	CE
Ambient air temperature for operation	32...122 °F (0...50 °C)
Ambient air temperature for storage	-4...140 °F (-20...60 °C)
Relative humidity	5...85 % without condensation
Operating altitude	<= 6561.68 ft (2000 m)
Storage altitude	0...10000 m
Maximum pressure	800...1114 hPa
IP degree of protection	IP65 front panel conforming to IEC 60529 IP20 rear panel conforming to IEC 60529
NEMA degree of protection	NEMA 4X front panel
Pollution degree	2 conforming to IEC 60664
Environmental characteristic	Corrosive gas free

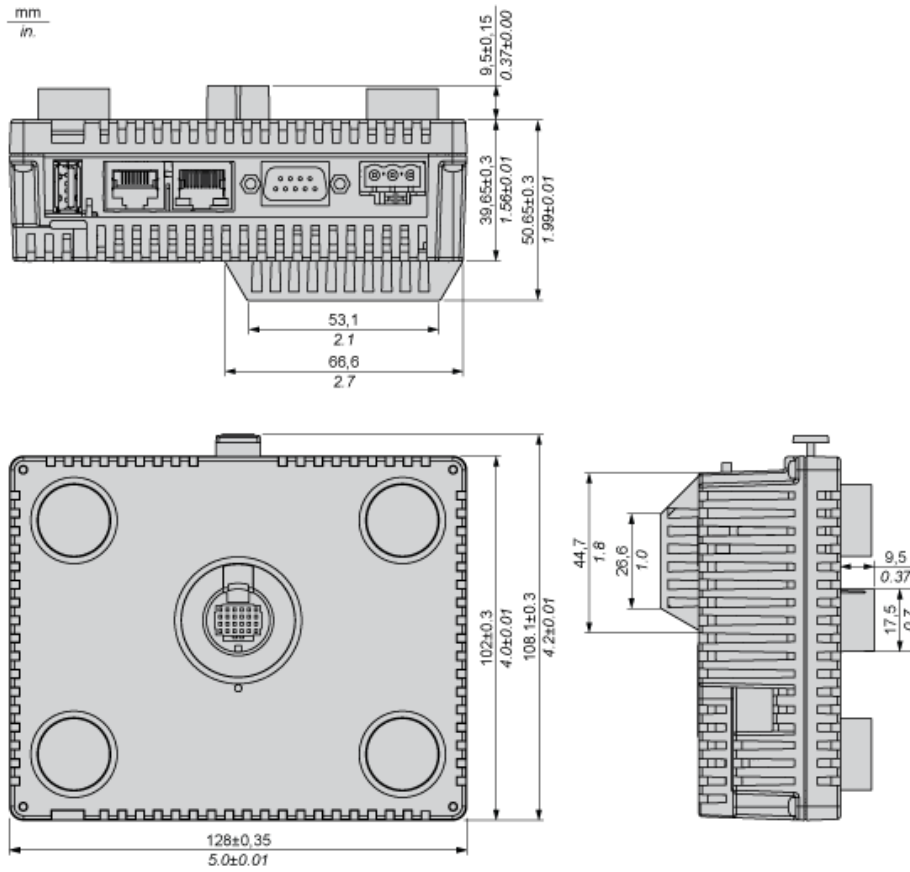
Ordering and shipping details

Category	22569 - MAGELIS XBT-GT (AND XBT-G)
Discount Schedule	MC2
GTIN	003606480564802
Nbr. of units in pkg.	1
Package weight(Lbs)	1
Returnability	N
Country of origin	CN

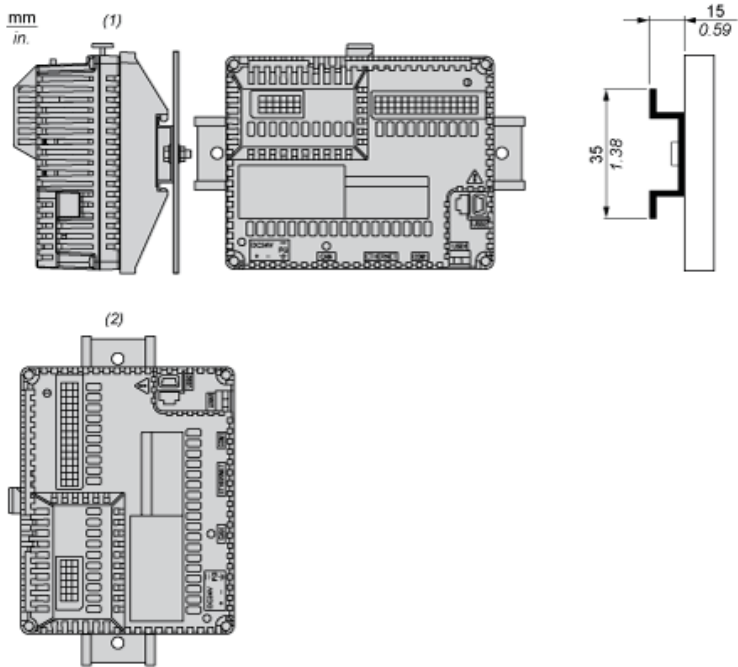
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1346 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
----- Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
----- More information	For more information go to www.p65warnings.ca.gov

Dimensions

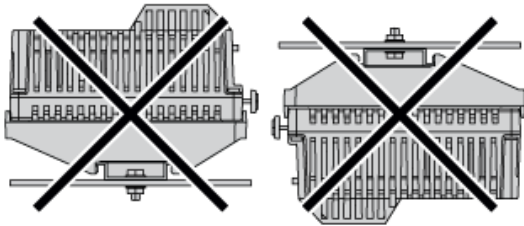


Recommended Mounting position

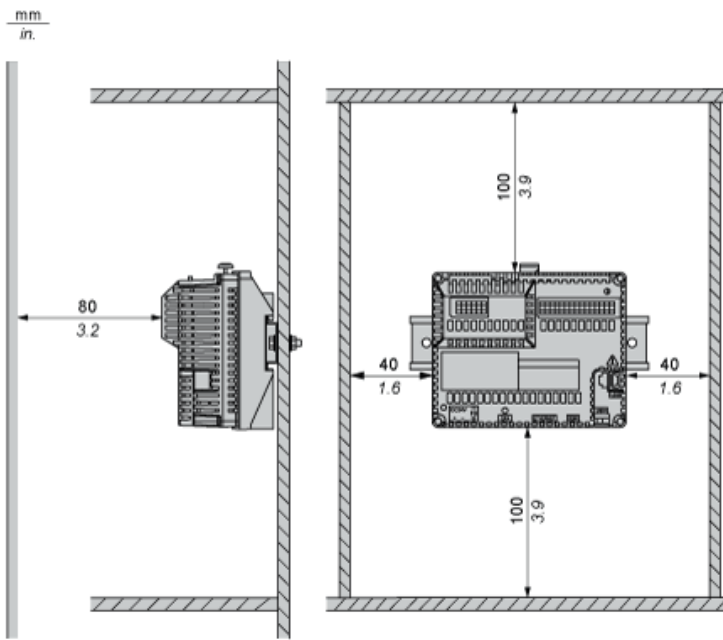


- (1) Horizontal mounting
- (2) Vertical mounting

No Recommended Mounting Position

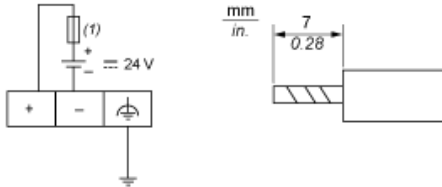


Clearance



Keep adequate spacing for proper ventilation to maintain an ambient temperature between 0...50 °C (32...122 °F) for horizontal installation and 0...40 °C (32...104 °F) for vertical installation.

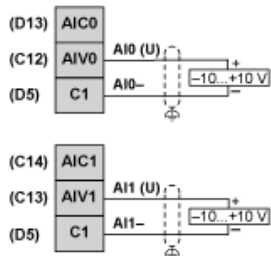
Wiring Diagram



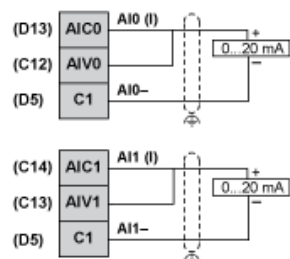
(1) Slow-blow 2A type T fuse

Wiring Diagram of the Analog Inputs and Analog Outputs

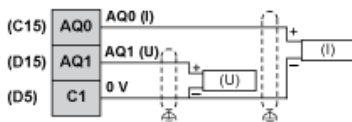
Voltage for Analog Inputs



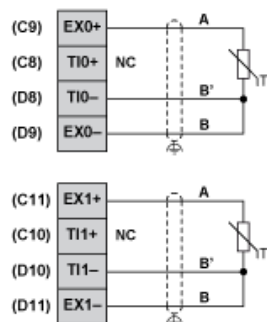
Current for Analog Inputs



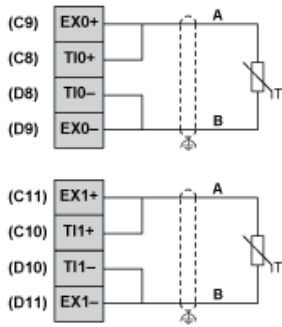
Voltage and Current for Analog Outputs



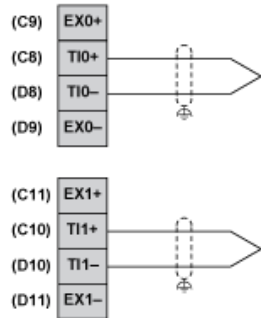
3 Wiring for Analog Inputs PT100



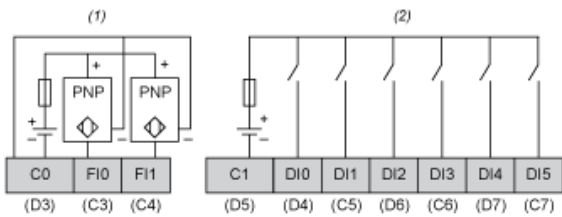
2 Wiring for Analog Inputs PT100



Thermocouple

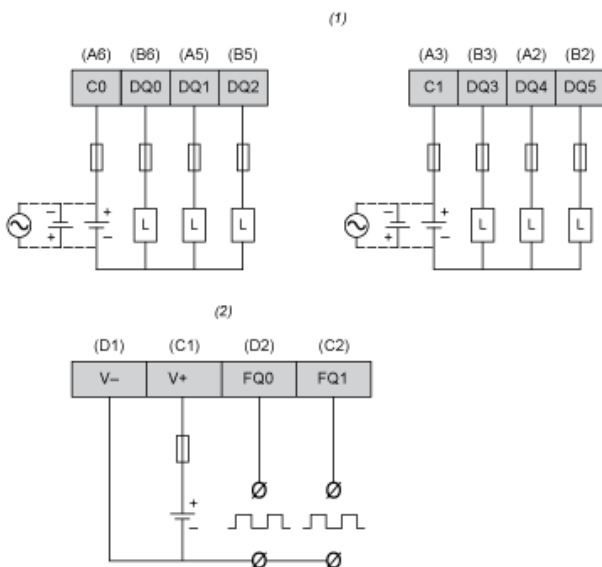


Wiring Diagram of Digital Inputs



- (1) HSC inputs with pin assignment of terminal blocks C,D.
- (2) Digital inputs with pin assignment of terminal blocks C,D.

Wiring Diagram of Digital Outputs



- (1) Digital outputs with pin assignment of terminal blocks A,B.
- (2) PWM outputs with pin assignment of terminal blocks C,D.

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