# Product data sheet Characteristics

## **HMISAC**

# Rear Module Controller panel - Dig 16 inputs/10 outputs



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

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Supply	External source
[Us] rated supply voltage	24 V at 20.428.8 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	CANopen Modbus TCP/IP Modbus
Fixing mode	By 1 nut - diameter: Ø 22 mm, mounting on: 16 mm thick panel
Enclosure material	PC/PBT
Shock resistance	147 m/s² (duration=11 ms) conforming to IEC 60068-2-27 on DIN rail 294 m/s² (duration=6 ms) conforming to IEC 60068-2-27 on panel mounting
Vibration resistance	+/- 3.5 mm (f=59 Hz) conforming to IEC 60068-2-6 1 gn (f=9150 Hz) conforming to IEC 60068-2-6

Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 8 kV, air discharge conforming to IEC 61000-4-2
	Electrostatic discharge immunity test - test level: 6 kV, contact discharge conforming to IEC 61000-4-2  Susceptibility to electromagnetic fields - test level: 10 V/m, 80 MHz3 GHz con-
	forming to IEC 61000-4-3
	Electrical fast transient/burst immunity test - test level: 2 kV, power lines conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 1 kV, between analogue I/O and operating voltage conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 2 kV, relay wires conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 1 kV, Ethernet line conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 1 kV, COM line conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 1 kV, CAN line conforming to IEC 61000-4-4 Surge immunity test - test level: 2 kV, power supply (common mode) conforming
	to IEC 61000-4-5
	Surge immunity test - test level: 1 kV, power supply (differential mode) conforming to IEC 61000-4-5 Surge immunity test - test level: 1 kV common mode, digital I/O conforming to
	IEC 61000-4-5 Surge immunity test - test level: 0.5 kV differential mode, digital I/O conforming to
	IEC 61000-4-5 Conducted RF disturbances - test level: 10 V, 0.1580 MHz conforming to IEC 61000-4-6
	Conducted emission - test level: 150 kHz30 MHz conforming to EN 55011 Radiated emission - test level: 30 MHz1 GHz conforming to EN 55011
Discrete input number	2 fast input (normal mode) conforming to IEC 61131-2 Type 1 14 digital input conforming to IEC 61131-2 Type 1
Discrete input voltage	24 V DC discrete input logic:sink or source (positive/negative)
Number of common point	1 fast input (HSC mode) 2 digital input
Discrete input current	7.83 mA fast input 5 mA digital
Input impedance	4.7 kOhm 2.81 kOhm
Sensor power supply	1528.8 V DC, voltage (state 1): >= 15 V, current (state 1): >= 5 mA, voltage (state 0): <= 5 V, current (state 0): <= 1.5 mA 1528.8 V DC, voltage (state 1): >= 15 V, current (state 1): >= 2.5 mA, voltage (state 0): <= 5 V, current (state 0): <= 1 mA
Configurable filtering time	0 ms no filter (none) 0.0040.04 ms bounce filter (latch/event and cumulative filter by step Nx0.5ms (64>=N>=2)) 312 ms integrator (none/run/stop)
Input frequency	100 kHz for fast input (encoder mode) - control type A/B 100 kHz for fast input - control type single phase 100 kHz for fast input - control type pulse/direction
Cable distance between devices	Shielded cable: 10 m for fast input Shielded cable: 100 m for digital input Unshielded cable: 50 m for digital input
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	2 fast output (normal mode), output logic: source 8 digital output, output logic: source
Discrete output voltage	24 V DC (voltage limit: 19.228.8 V) with transistor discrete output(s) 24 V DC (voltage limit: 530 V) with relay discrete output(s) 220 V AC (voltage limit: 100250 V) with relay discrete output(s)
Input/output number	2 fast input, terminal(s): FI0FI1 14 digital input, terminal(s): DI0DI13 2 fast output, terminal(s): FQ0FQ1 8 digital output, terminal(s): DQ0DQ7
Discrete output current	300 mA, response time 2 ms fast output (normal mode) 50 mA, response time 2 ms fast output (PWM or PTO mode) 2 A (current per output common:4 A), response time 5 ms with opening contact for digital output 2 A (current per output common:4 A), response time 2 ms with closing contact for digital output

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 199% fast output (PWM or PTO mode)
	1 % of full scale of cyclic ratio 199% fast output (PWM or PTO mode)
	+/- 5 % of full scale of cyclic ratio 1090% fast output (PWM or PTO mode)
	+/- 10 % of full scale of cyclic ratio 2080% fast output (PWM or PTO mode)
	+/- 15 % of full scale of cyclic ratio 3070% fast output (PWM or PTO mode)
Height	1.99 in (50.65 mm)
Width	5.04 in (128 mm)
Depth	4.02 in (102 mm)
Product weight	0.79 lb(US) (0.359 kg)

#### Environment

Standards	CSA C22.2 No 213 Class I Division 2 UL 508 WEEE directive 2002/96/EC EN 61131-2 ANSI/ISA 12-12-01 RoHS compliant IEC 61000-6-2 RoHS China SJ/T 11363-2006 FCC Class A
Product certifications	CUL 1604 Class 1 Division 2 GOST KCC CULus 508 C-Tick CULus CSA 22-2 No 142
Marking	CE
Ambient air temperature for operation	32122 °F (050 °C)
Ambient air temperature for storage	-4140 °F (-2060 °C)
Relative humidity	585 % without condensation
Operating altitude	<= 6561.68 ft (2000 m)
Storage altitude	010000 m
Maximum pressure	8001114 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	00785901759188
Nbr. of units in pkg.	1
Package weight(Lbs)	1
Returnability	N
Country of origin	CN

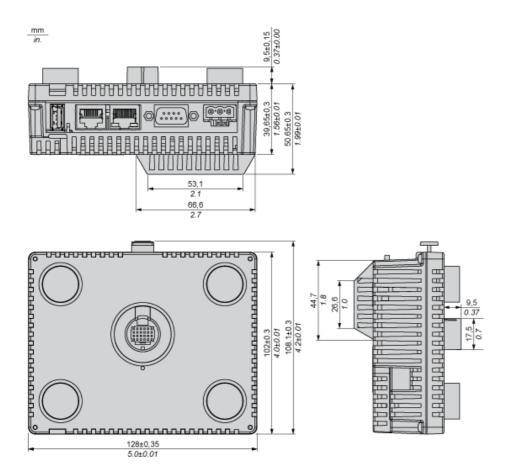
#### Offer Sustainability

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:

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

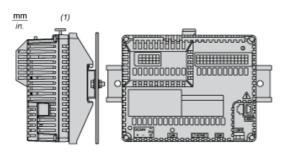
## **HMISAC**

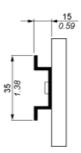
#### **Dimensions**

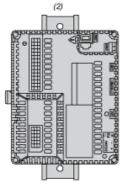


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#### Recommended Mounting position

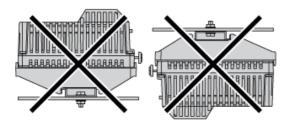




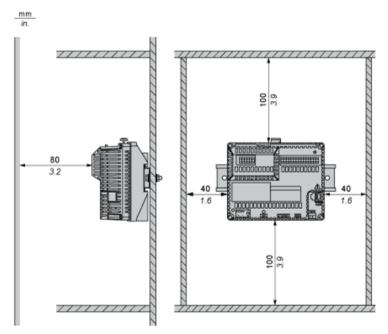


- Horizontal mounting
- (1) (2) Vertical mounting

#### No Recommended Mounting Position



#### Clearance

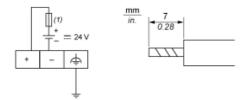


Keep adequate spacing for proper ventilation to maintain an ambient temperature between 0...50 °C (32...122 °F) for horizontal installation and 0...40 °C (32...104 °F) for vertical installation.

### Product data sheet Connections and Schema

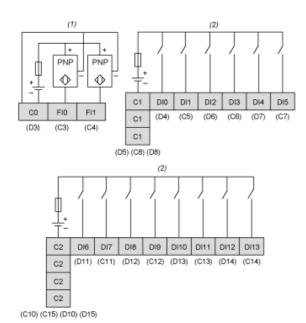
## **HMISAC**

#### Wiring Diagram



(1) Slow-blow 2A type T fuse

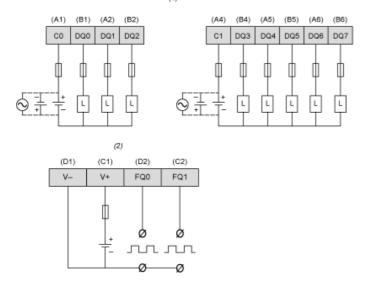
#### Wiring Diagram of Digital Inputs



- (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. PWM outputs with pin assignment of terminal blocks C,D.
- (2) (L)
- Load

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