

Product datasheet

Specifications



Small touch HMI controller, Magelis XBT GC, GT/GK, 3 inch monochrome controller panel, 12 inputs, 6 outputs sink

XBTGC1100U

⚠ Discontinued

⚠ Discontinued on: 31 Dec 2014

⚠ End-of-service on: 31 Dec 2022

EAN Code: 3595864012230

Main

Range of product	Magelis XBT GC, GT/GK with control
Product or component type	Small touch HMI controller
Display size	3.8 inch
Display type	Backlit monochrome STN LCD
Display colour	8 levels of grey Amber or red
Pixel resolution	320 x 240 pixels QVGA
Touch panel	Analogue
[Us] rated supply voltage	24 V DC
Supply	External source
Supply voltage limits	19.2...28.8 V
Enclosure material	PPT

Complementary

Backlight lifespan	10000 hours with red 50000 hours with amber
Brightness	8 levels
Contrast	8 levels via touch panel
Character font	ASCII Chinese (simplified Chinese) Taiwanese (traditional Chinese) Korean Japanese (ANK, Kanji)
Inrush current	30 A
Power consumption in W	18 W
Local signalling	1 LED green for normal operation
Number of pages	Limited by internal memory capacity
Software designation	SoMachine
Operating system	Magelis
Processor name	CPU RISC
Processor frequency	131 MHz

Disclaimer: 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

Memory description	Application memory 16 MB Back up of data 512 KB
Integrated connection type	1 USB port (V1.1) USB type A Power supply removable screw terminal block
I/O expansion capacity	2 M238 modules
Realtime clock	Built-in
Fixing mode	By 4 screw clips, mounting on 1.6...5 mm thick panel
Marking	CE
Discrete input number	12
Discrete input voltage	24 V
Discrete input voltage type	DC
Number of common point	1I/1O
Input voltage limits	20.4...28.8 V
Discrete input logic	Sink
Discrete input current	5 mA for other I0.i 6.5 mA for I0.0, I0.2, I0.4, I0.6
Input impedance	3.7 kOhm for I0.0, I0.2, I0.4, I0.6 4.7 kOhm for other I0.i
Filter time	0.5...20 ms at state 0 0.5...20 ms at state 1
Isolation between channels	None
Discrete output number	6
Discrete output type	Transistor
Discrete output voltage	24 V
Output voltage limits	20.4...28.8 V
Discrete output logic	Sink
Discrete output current	0.2 A
Maximum current per output common	1.2 A
Response time	5 µs at state 0 Q0.0...Q0.3 5 µs at state 1 Q0.0...Q0.3 500 µs at state 0 other Q0.i 500 µs at state 1 other Q0.i
[Ures] residual voltage	0.5 V at state 1
Maximum leakage current	0.1 mA
Short-circuit protection	2.5 A fuse
Height	104 mm
width	130 mm
Depth	76.5 mm
Net weight	0.4 kg

Environment

Immunity to microbreaks	10 ms
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Standards	CSA C22.2 No 14 IEC 61000-6-2 FCC Class A UL 1604 EN 61131-2 UL 508
Product certifications	cULus UL class 1 Div2 T4A ou T5 C-Tick CSA
Ambient air temperature for operation	0...50 °C
Ambient air temperature for storage	-20...60 °C
Relative humidity	10...90 % without condensation
Operating altitude	<= 2000 m
IP degree of protection	IP20 (rear panel) conforming to IEC 60529 IP65 (front panel) conforming to IEC 60529
NEMA degree of protection	NEMA 4X front panel
Shock resistance	147 m/s² conforming to IEC 60068-2-27
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
Resistance to electromagnetic fields	10 V/m conforming to IEC 61000-4-3

Packing Units

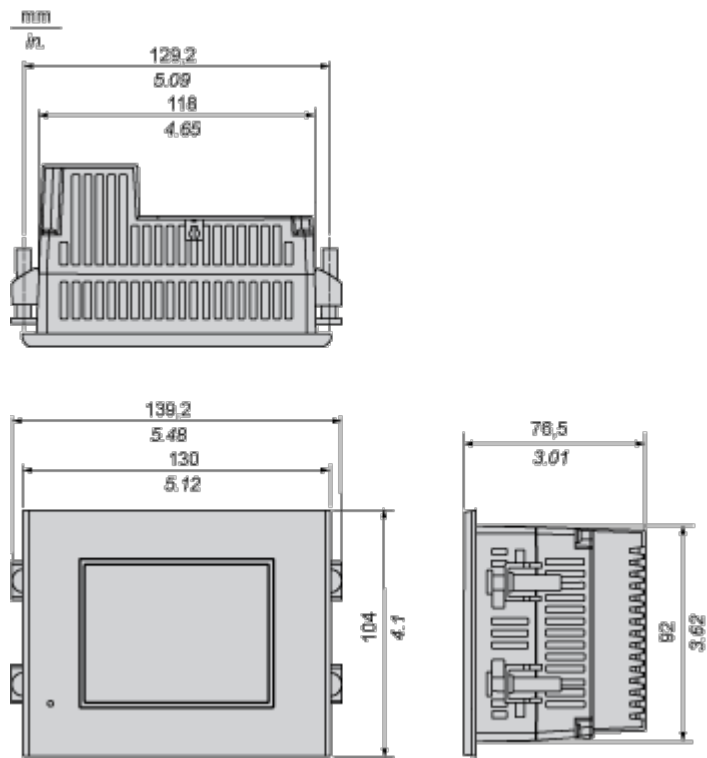
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.5 cm
Package 1 Width	18.5 cm
Package 1 Length	20.5 cm
Package 1 Weight	875.0 g

Contractual warranty

Warranty	18 months
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Dimensions Drawings

Dimensions

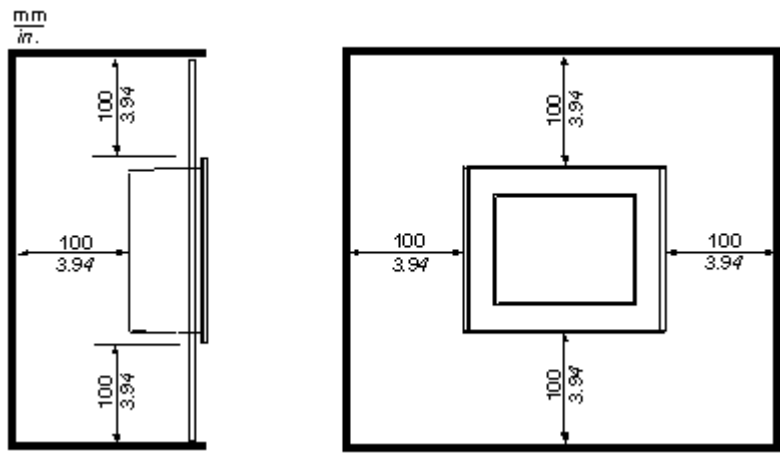


Mounting and Clearance

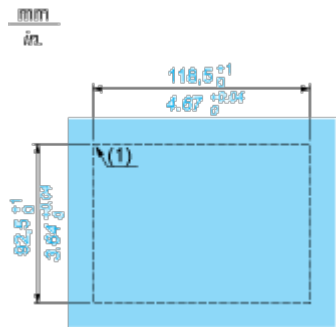
Clearance

Installation Requirements

For easier maintenance, operation and improved ventilation, be sure to install the unit at least 100 mm (3.94 in) away from adjacent structures and other equipment:



Panel Cut-out Dimensions

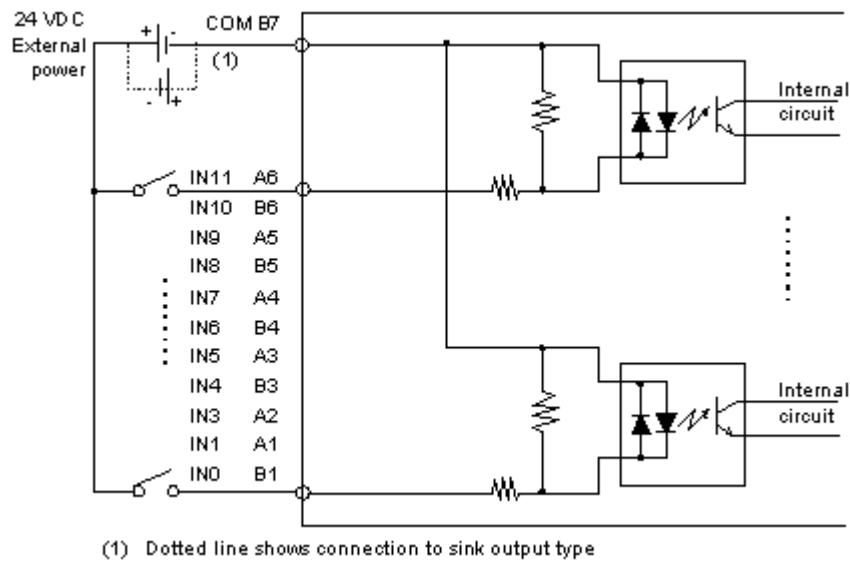


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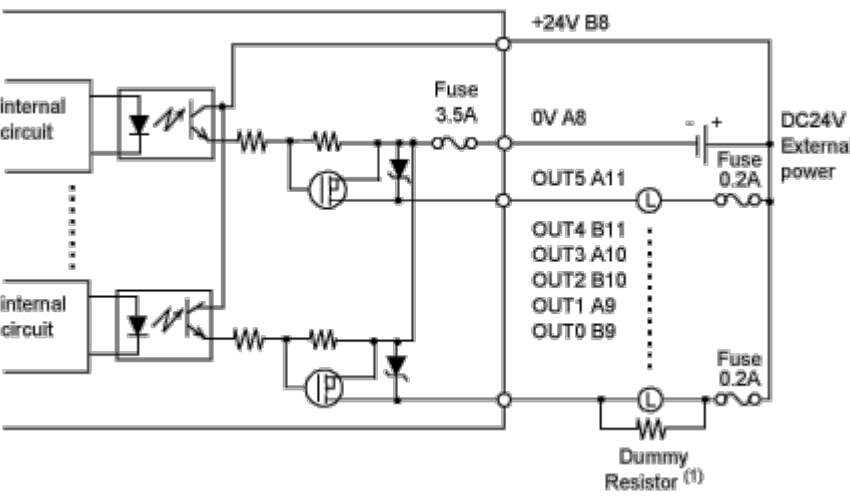
Connections and Schema

Wiring Diagrams

Input Circuit



Output Circuit (Sink)



⁽¹⁾ (Example) The output delay time (OFF to ON) is 1.5 μ s where the output current is 50 mA. Install an external dummy resistor to increase the amount of current when faster response is required when the load is light.