Product data sheet

Specifications



5”7 LCD TFT color controller panel - 16 inputs/16 outputs source

XBTGC2330T

Discontinued on: Jun 30, 2023

To be end-of-service on: Jun 30, 2027

Discontinued - Service only

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

Main

Range of Product	Magelis XBT GC, GT/GK with control
Product or Component Type	Small touch HMI controller
Display size	5.7 inch
Display Type	Backlit colour TFT LCD
Display colour	65000 colours
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	50000 hours
Brightness	8 levels via touch panel
Contrast	8 levels via touch panel
Character font	ASCII Japanese (ANK, Kanji) Korean Chinese (simplified Chinese) Taiwanese (traditional Chinese)
Inrush current	30 A
Power Consumption in W	27 W
Local signalling	1 LED green normal operation
Number of pages	Limited by internal memory capacity
Software Designation	SoMachine
Operating System	Magelis
Processor name	CPU RISC
Processor frequency	131 MHz
Memory description	Application memory 16 MB Back up of data 512 KB

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Integrated connection type	1 USB port (V1.1) USB type A Power supply removable screw terminal block COM1 serial link male SUB-D 9 <= 115.2 kbits/s RS232C/RS422/RS485 1 Ethernet TCP/IP RJ45
I/O expansion capacity	3 M238 modules
Realtime clock	Built-in
Downloadable protocols	Third party protocols Modbus Modbus TCP/IP Uni-TE
Fixing mode	By 4 screw clips 1.6...5 mm thick panel
Marking	CE
Discrete input number	16
Discrete input voltage	24 V
Discrete input voltage type	DC
Number of common point	1I/2O
Input voltage limits	20.4...28.8 V
Discrete input logic	Source
Discrete input current	5 mA other I0.i 6.5 mA I0.0, I0.2, I0.4, I0.6
Input impedance	3.7 kOhm I0.0, I0.2, I0.4, I0.6 4.7 kOhm 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	16
Discrete output type	Transistor
Discrete output voltage	24 V
Output voltage limits	20.4...28.8 V
Discrete output logic	Source
Discrete output current	0.2 A
Maximum current per output common	1.6 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	5.3 in (135 mm)
Width	6.6 in (167.4 mm)
Depth	3.06 in (77.6 mm)
Product Weight	2.2 lb(US) (1 kg)

Environment

Immunity to microbreaks	3 ms

Standards	CSA C22.2 No 14 FCC Class A UL 1604 UL 508 IEC 61000-6-2 EN 61131-2
Product Certifications	CSA UL class 1 Div2 T4A ou T5 cULus C-tick
Ambient Air Temperature for Operation	32…122 °F (0…50 °C)
Ambient Air Temperature for Storage	-4…140 °F (-20…60 °C)
Relative humidity	10…90 % without condensation
Operating altitude	<= 6561.68 ft (2000 m)
IP degree of protection	IP20 IEC 60529 rear panel) IP65 IEC 60529 front panel)
NEMA degree of protection	NEMA 4X front panel
Shock resistance	147 m/s²IEC 60068-2-27
Vibration resistance	+/- 3.5 mm 5…9 Hz) IEC 60068-2-6 1 gn 9…150 Hz) IEC 60068-2-6
Resistance to electromagnetic fields	9.1 V/m (10 V/m) IEC 61000-4-3

Ordering and shipping details

Category	US10MC222568
Discount Schedule	0MC2
GTIN	3595864167121
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	6.9 in (17.5 cm)
Package 1 Width	10.6 in (27.0 cm)
Package 1 Length	8.9 in (22.5 cm)
Package weight(Lbs)	3.20 lb(US) (1.45 kg)
Unit Type of Package 2	CAR
Number of Units in Package 2	4
Package 2 Height	14.6 in (37.0 cm)
Package 2 Width	13.0 in (33.0 cm)
Package 2 Length	18.5 in (47.0 cm)
Package 2 Weight	12.8 lb(US) (5.8 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	8
Package 3 Height	19.3 in (49.0 cm)
Package 3 Width	31.5 in (80.0 cm)
Package 3 Length	23.6 in (60.0 cm)

Package 3 Weight	41.006 lb(US) (18.6 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**1 223 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**83 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**1 091 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**47 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

F-gas usage performance	**Only air and vacuum used for insulation / breaking, no F-gas including SF6**
Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**6c1cfca1-a525-42fa-9a8a-ff27f8684c06**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
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**
Halogen content performance	**Product contains halogen above thresholds**
PVC free	**No**
Silicon free	**No**

Use Longer

Lifetime extension

Repair	**No**

Use Again

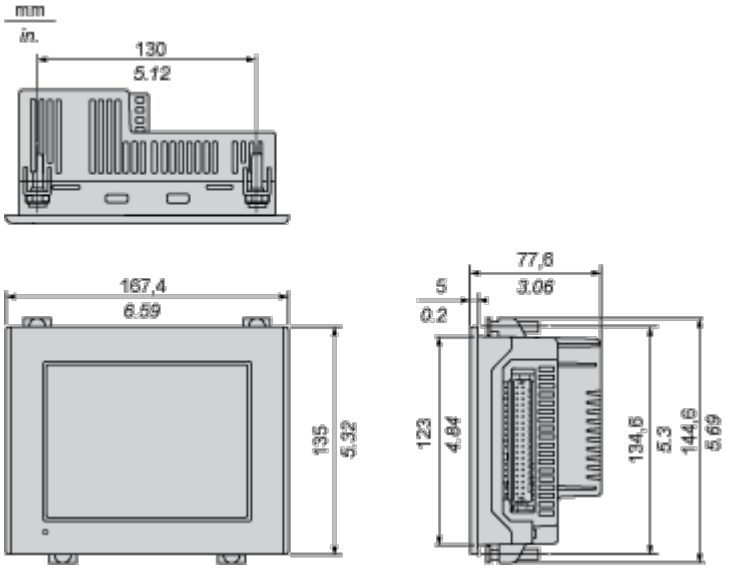
Repack and remanufacture

Recyclability potential, in %	**8**

Circularity Profile	End of Life Information
Removable battery	User replaceable
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

Dimensions

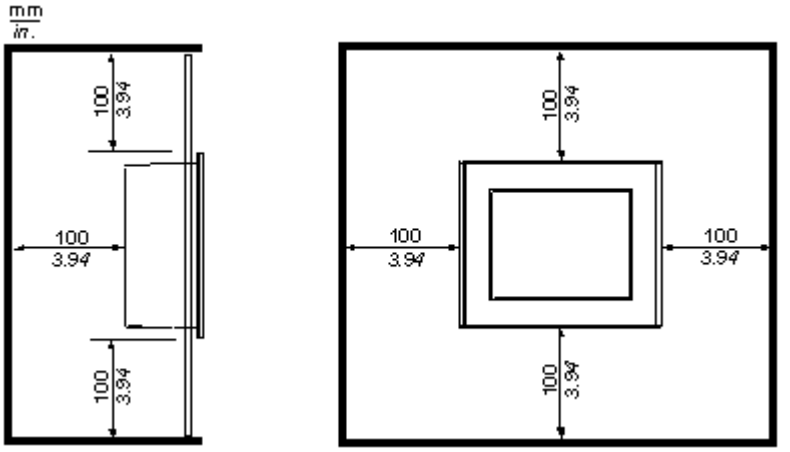


Mounting and Clearance

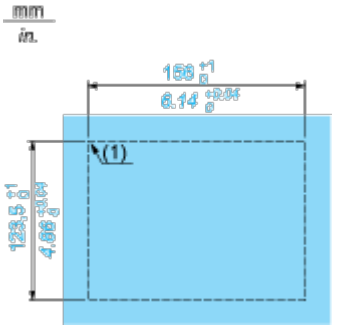
Clearance

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

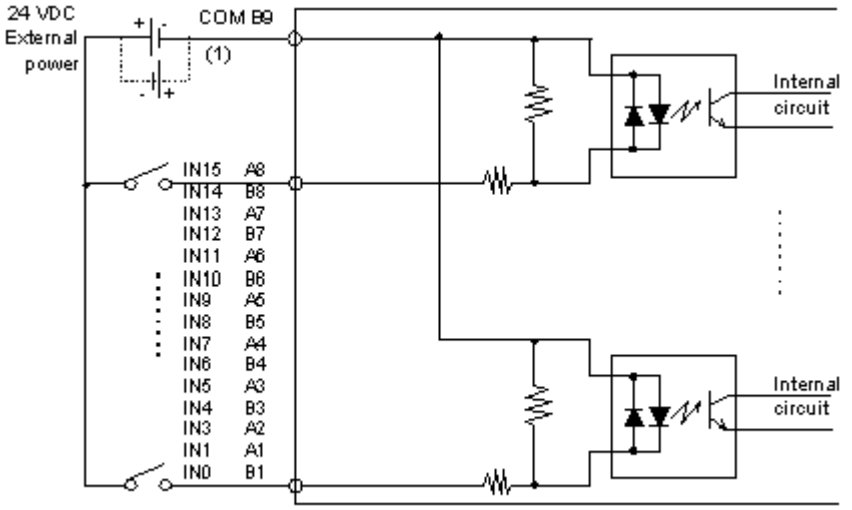


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Connections and Schema

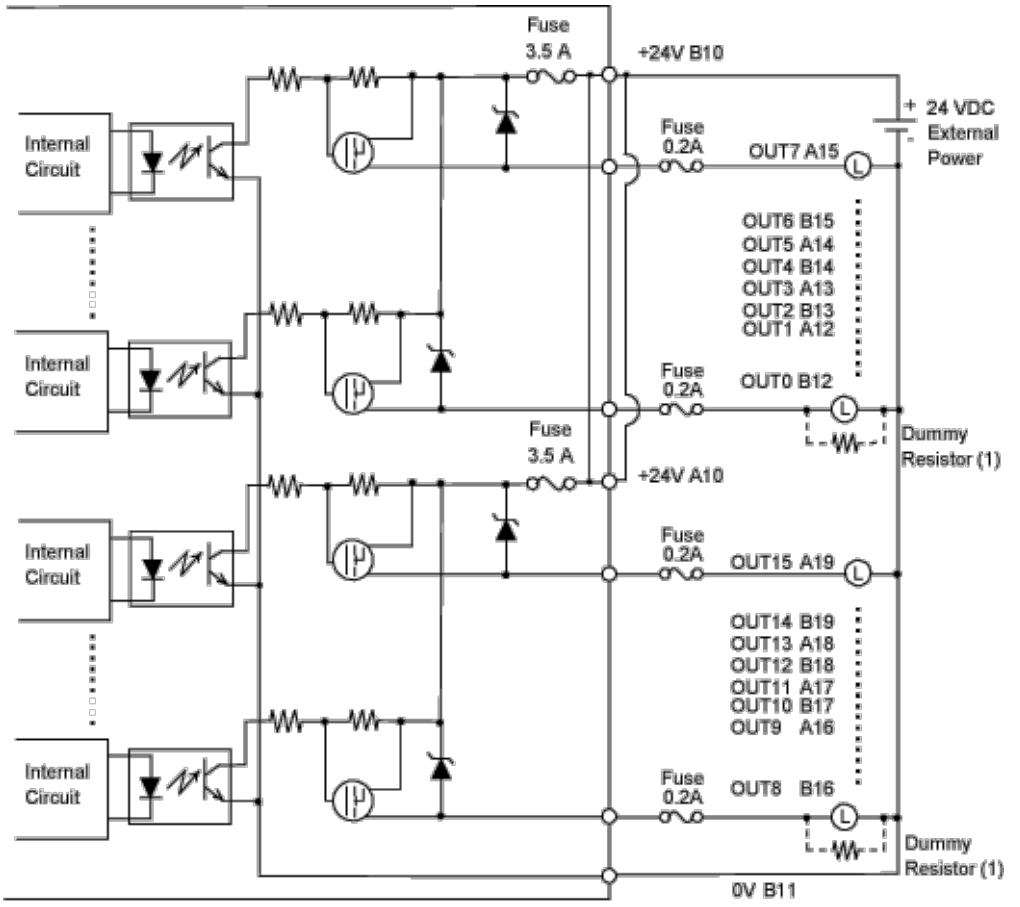
Wiring Diagrams

Input Circuit



(1) Dotted line shows connection to sink output type

Output Circuit (Source)



(1) (Example) The output delay time (OFF to ON) is 1.5 µs 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.