



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 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
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 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, mounting on 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 for other IO.i 6.5 mA for IO.0, IO.2, IO.4, IO.6
Input impedance	3.7 kOhm for IO.0, IO.2, IO.4, IO.6 4.7 kOhm for other IO.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	135 mm
Width	167.4 mm
Depth	77.6 mm
Net weight	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	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

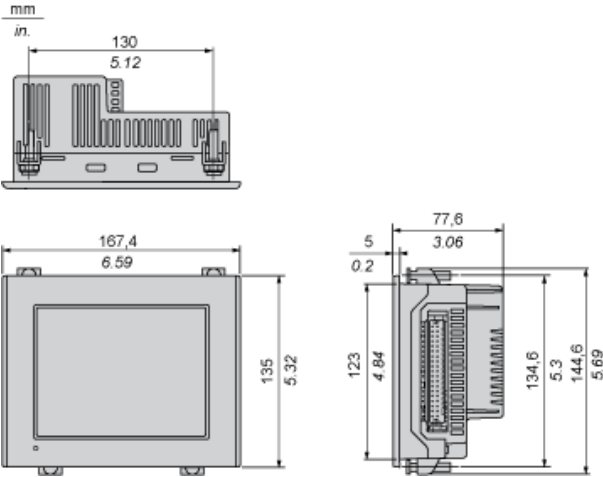
Packing Units

Package 1 Weight	1.450 kg
Package 1 Height	175.000 mm
Package 1 width	270.000 mm
Package 1 Length	222.000 mm

Offer Sustainability

REACH Regulation	 REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

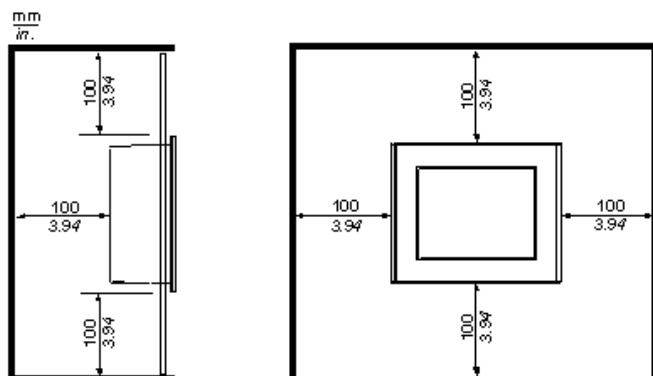
Dimensions



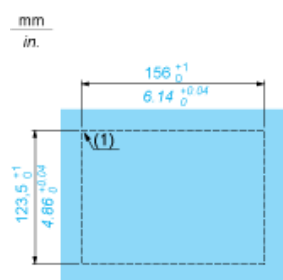
Clearance

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:



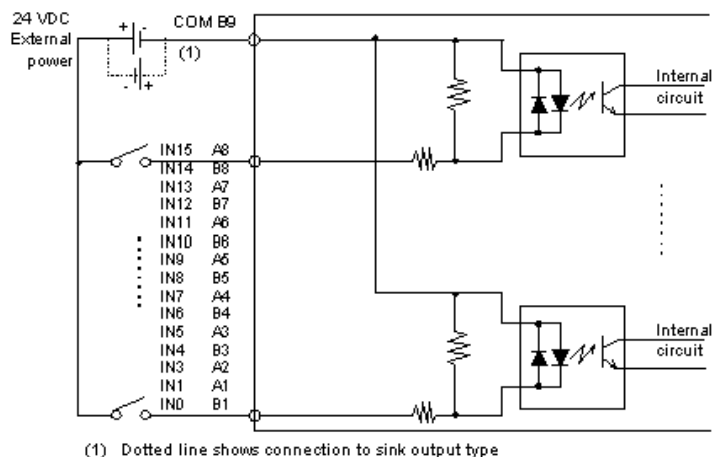
Panel Cut-out Dimensions



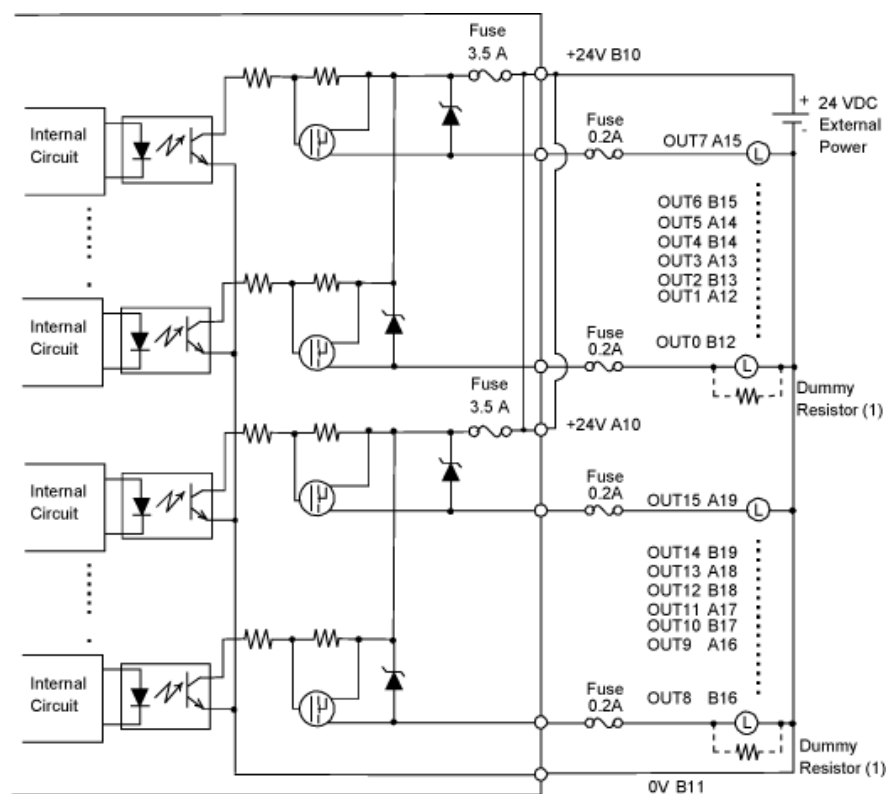
(1) $r < 3$

Wiring Diagrams

Input Circuit



Output Circuit (Source)



⁽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.