
INSTRUCTION SHEET

How to install Magelis XBT operator terminals for Merchant Navies applications

Schneider Automation SAS
06903 Sophia Antipolis – France

DISCLAIMER

Instructions provided in this Technical Resolution do not substitute to Merchant Navies Rules applicable in ship manufacturing or ship maintenance & installation.

RELEVANT STANDARDS

These devices have been manufactured in accordance with :

- IACS-E10
- IEC 60945 with selection of applicable sections
- IEC 60092-504 with selection of applicable sections
- IEC 61174 with selection of applicable sections

We cannot accept any responsibility for failure to observe these regulations.

RELEVANT PRODUCTS

These recommendations relate to matrix and graphic terminals intended for installation for Merchant Navies applications

GENERAL INSTALLATION INSTRUCTIONS

Make sure that you follow all the recommendations in the XBT GT and XBT N/R Quick Reference Guides and especially those listed below

MERCHANT NAVIES INSTALLATION INSTRUCTIONS

General

Only analogue, digital and telecommunication signal pairs can be bound one against the other in one bundle or run in the same bundled cable.

The relay, variator, supply and power circuits must be separated from the pairs above.

Take special care when setting up the speed variators to separate the power connections from the data connections.

Check IP or Nema enclosure protection compliance of your installation.

Read on Type Approvals other installation instructions if any.



Telemecanique

Special instructions according to type of terminal

XBT N/R MATRIX TERMINALS

For installation in GENERAL POWER DISTRIBUTION ZONE

To comply with EMC requirements for GENERAL POWER DISTRIBUTION ZONE, products must be installed with accessories detailed in the table below :

Target products	Instruction for Installation
All XBT N All XBT R	Serial link cable, Printer cable and Power supply cable must be fitted with <i>WÜRTH 74271222</i> type snap ferrite

For installation in BRIDGE & DECK ZONE

To comply with EMC requirements for BRIDGE & DECK ZONE, products must be installed with accessories detailed in the table below :

Target products	Instruction for Installation
All XBT N All XBT R	Serial link cable, Printer cable and Power supply cable must be fitted with <i>WÜRTH 74271222</i> type snap ferrite
24VDC power supplied terminals : XBT R410 XBT R411 XBT N401 XBT N410 XBT NU400	Power supply cable fitted (in series with supply terminals) with <i>SCHAFFNER FN680-1/06</i> type filter

XBT GT GRAPHIC TERMINALS

For installation in GENERAL POWER DISTRIBUTION ZONE

To comply with EMC requirements for GENERAL POWER DISTRIBUTION ZONE, products must be installed with accessories detailed in the table below :

Target products	Instruction for Installation
XBT GT1100/1130	No specific instruction
XBT GT2330/2340 XBT GT4330/4340 XBT GT5330/5340 XBT GT6330/6340 XBT GT7340	- Power supply cable must be fitted (in series with supply terminals) with <i>SCHAFFNER FN2070-1/06</i> type filter. - Product must be mounted on a grounded metallic enclosure. - Shield of Power supply cable, AUX cable and USB cables must be grounded

For installation in BRIDGE & DECK ZONE

To comply with EMC requirements for BRIDGE & DECK ZONE, products must be installed with accessories detailed in the table below :

Target products	Instruction for Installation
XBT GT1100/1130	- Power supply cable must be fitted (in series with supply terminals) with <i>SCHAFFNER FN680-1/06</i> type filter. - Terminal must installed Five meters away from the compass as required in 11.2 of IEC60945. - HMI application must be designed to not degrade the night vision of the officer of the watch (Configuration software offers the possibility to tune brightness and application panel colours to comply with Ergonomic requirements based on IEC60945 for B&D zone)