The Intelligent Solution

CAN100H CAN Hub

Features

- ✧ 24VDC powered
- ✧ Supporting for star topology
- ✧ Four models: CAN100H/4, CAN100H/8, CAN100H/12, CAN100H/16
- ✧ Avoiding loop interference to affect the whole system due to isolation between trunk and branch, branch and branch

Description

CAN100H CAN Hub is powered by 24VDC, building for star topology of CAN network. The hub should be installed on the central control panel of star network, and each port connects with a branch loop. Branch and trunk can transparently transmit signals of CAN in bilateral directions. The trunk port supports cascade and realizes equivalent expansion of branch quantity.

Connection and Cabling

External terminals are shown in Fig. 1.

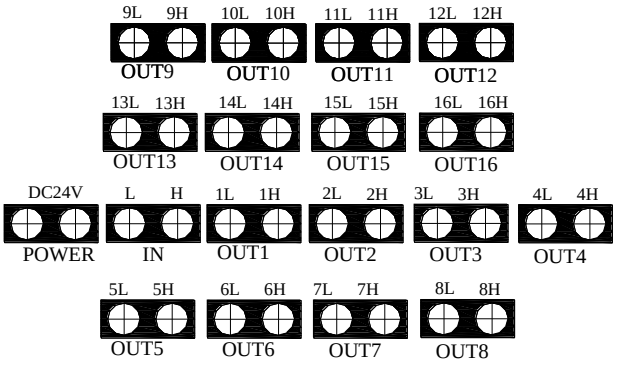

Fig. 1

24VDC: 24VDC input terminal, polarity-insensitive. Input voltage is 19.2VDC to 28.8VDC.

L, H (IN): Trunk terminals, connecting with central nodes of star topology. Many hubs can be used to extend the number of star topology branches through cascading.

nL, nH (OUTn): Connecting with the CAN loop of control panel. Each CAN loop should be less than 3000m and the number of nodes is not over 112.

Wiring: 1.0mm^2 or above RVS twisted pair or fire cable for CAN signal loop 1.5mm^2 or above BV cable or fire cable for 24VDC power line, subject to local codes.

Installation

Warning: Please switch off power before installation.

1) Please check the enclosure and markings and make sure they are complete.
2) Appearances of the hubs are shown below.

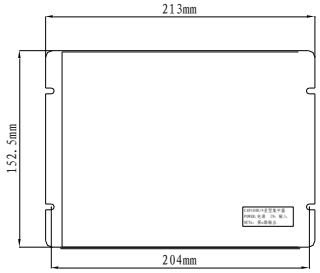

Fig. 2 CAN100H/4

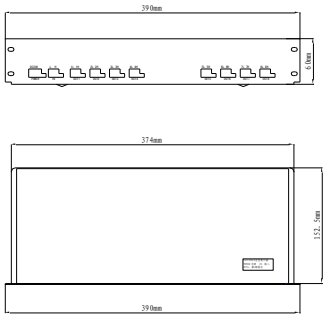

Fig. 3 CAN100H/8

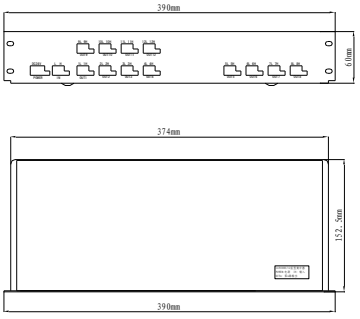

Fig. 4 CAN100H/12

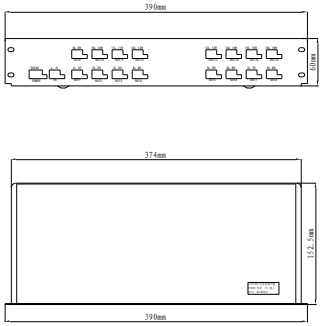

Fig. 5 CAN100H/16

Specification

Operating Voltage	24VDC(19.2VDC~28.8VDC)
CAN100H/4	Standby Current≤150mA Max. Current ≤200mA
CAN100H/8	Standby Current≤300mA Max. Current ≤400mA
CAN100H/12	Standby Current≤450mA Max. Current ≤600mA
CAN100H/16	Standby Current≤600mA Max. Current ≤800mA
CAN Interface	N+1 ports of photoelectrical isolation
Transmission Distance	Less than 3000m
Power LED	It flashes green when external power is operated normally.
CAN Comm LED	It flashes red when CAN bus communicates normally.
OUTn LED	It flashes red when the related port communicates normally.
Pin X1 for Setting:	As the end of trunk loop, the jumper should be shorted to "120" side.
Environmental Temperature	0℃～+40℃
Relative Humidity	≤95%, non-condensing

Troubleshooting

Problem	Reason	Solution
One port of the hub can't communicate normally	CAN loop open or short	Search and remove short circuit
	End-of-line-resistor not well connected	Return for repair
	Internal circuit damaged	Return for repair
Unstable communication of a port	Loop length or nodes quantity exceed limits	Add the CAN relay to the appropriate position

Limited Warranty

GST warrants that the product will be free from defects in design, materials and workmanship during the warranty period. This warranty shall not apply to any product that is found to have been improperly installed or used in any way not in accordance with the instructions supplied with the product. Anybody, including the agents, distributors or employees, is not in the position to amend the contents of this warranty. Please contact your local distributor for products not covered by this warranty.

Application

The hub is applicable for star network topology. If master control center and salve control panels are not concentrated, or loop and ring topology are not easy tor realize. System connection is shown in Fig. 6.

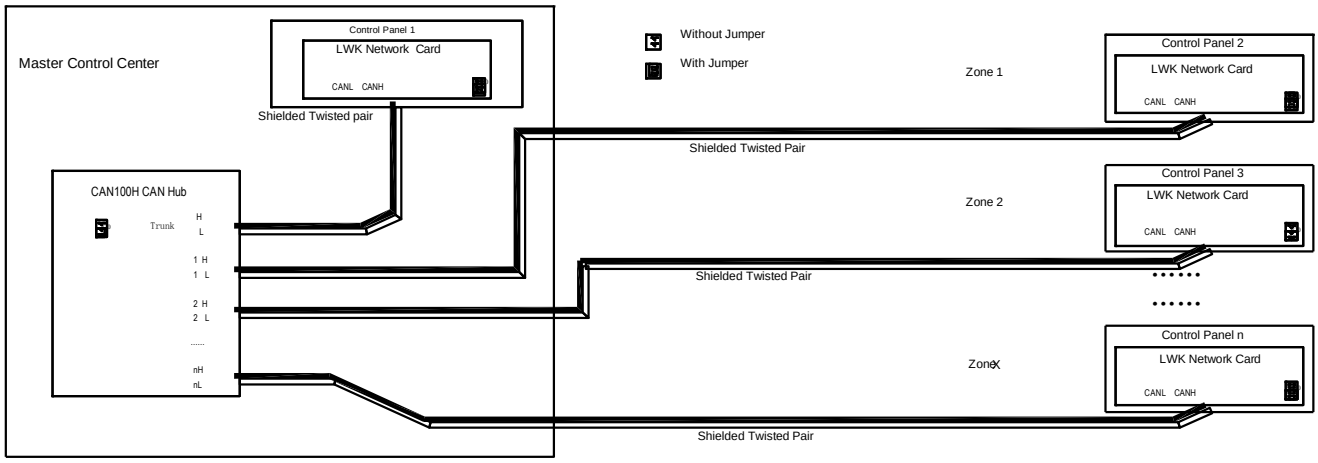

Fig. 6

This document is subject to change without notice. Please contact GST for more information or questions.

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