



Contact Closure

Quick Start Guide



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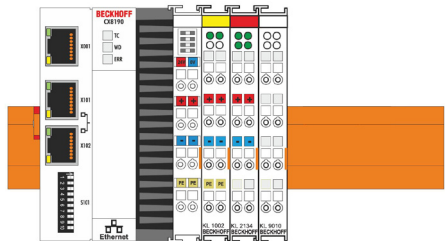
1 Install the contact closure module on a DIN rail.

The following equipment will be needed for the installation process.

- Mounting rail of type TS35/7.5 or TS35/15 according to DIN EN 60715
- Screwdriver

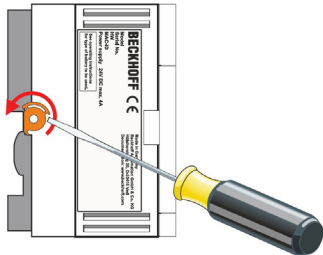
Secure the contact closure module on the mounting rail as follows:

1. Place the contact closure module at the front of the mounting rail. Slightly press the contact closure module onto the mounting rail until a soft click can be heard and the contact closure module has latched.



2. Subsequently, lock the catch on the left side of the contact closure module.

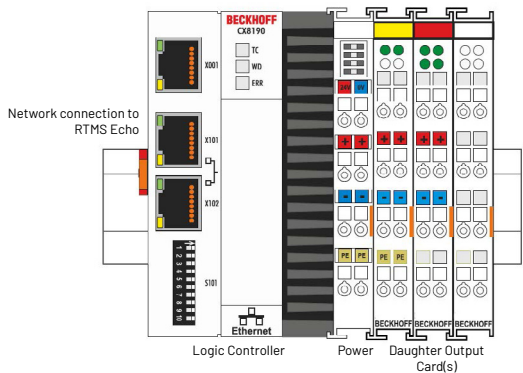
NOTE: Use a screwdriver to do this.



3. Double-check the correct installation and latching of the contact closure module on the mounting rail.



2 Attach output daughter cards (maximum of 3).

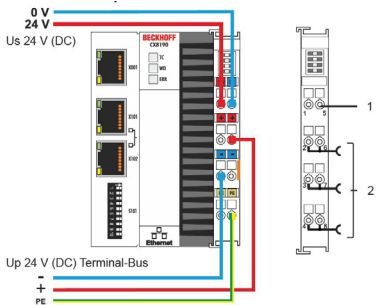


3 Connect to power in the cabinet.

The cabling of the contact closure module in the control cabinet must be done in accordance with the standard EN 60204-1:2006 PELV (Protective Extra Low Voltage):

- The "PE" and "0V" conductors of the voltage source for a basic CPU module must be on the same potential (connected in the control cabinet).
- Standard EN 60204-1:2006, section 6.4.1:b stipulates that one side of the circuit, or a point of the energy source for this circuit must be connected to the protective earth conductor system.

Connection Example:

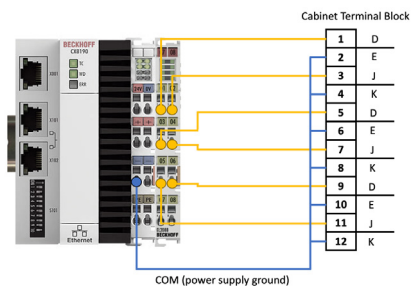


Legend for the Connection Example

No.	Description
1	The upper spring-loaded terminals identified with "24V" and "0V" supply the contact closure module and the terminal bus (data transfer via K-bus or E-bus).
2	The spring-loaded terminals identified as "+", "-", and "PE" supply the Bus Terminals via the power contacts and the sensors or actuators connected to the Bus Terminals.

4 Wire the controller.

1. Output wiring for typical NEMA controller:



2. Power up the system after wiring to the controller.

5 Configure the IP address of the contact closure module.

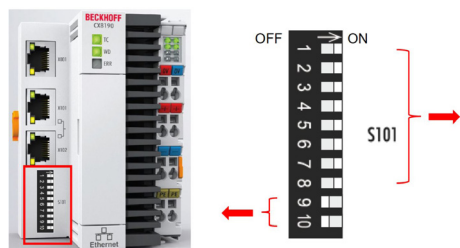
The contact closure module will be preset to use the following IP addresses:

- Port X001 (maintenance) - **192.168.0.11**
- Port X101/X102 (data) - **192.168.127.254**

NOTES:

- The IP address can be changed based on the needs of your network.
- You must have an active network connection to port X101.

1. Connect the Echo Ethernet port and CX8190 X101 Ethernet.
2. Verify the DIP switch match the following settings:
 - Switches 1-8 are in the ON position while switches 9 and 10 are in the OFF position.



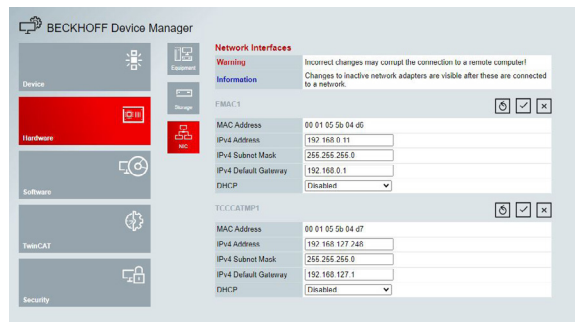
2. Set the IP address of your PC to **192.168.0.99**
3. Connect the network cable of your PC to the maintenance port **X001**.

6 Log in to the local network.

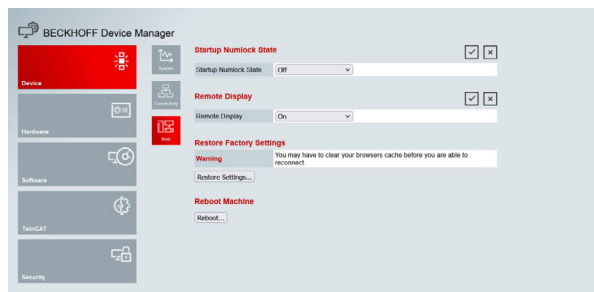
1. Open an Internet Browser and navigate to the following URL: **https://192.168.0.11/config**
2. Enter login credentials:
 - Username: **administrator**
 - Password: **Echo123**

7 Configure for the local network.

1. In the **Hardware** section, click **NIC**.



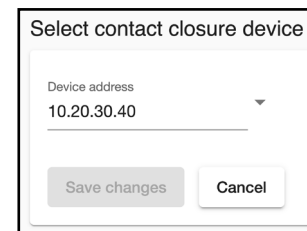
2. Set "TCCATMP1" address and default gateway to desired subnet.
3. Click the check mark button after the network changes have been made to TCCATMP1.
4. In the **Device** section, click **Boot**.



5. Click the **Reboot** button at the bottom of the screen to reboot the system.
6. Verify the IP address after the reboot.

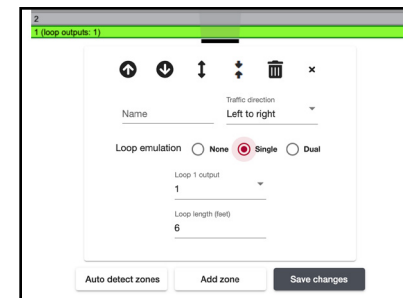
8 Connect to the RTMS Echo.

1. Log in to the RTMS Echo. See "Logging in to the RTMS Echo" in the *RTMS Echo User Guide*.
2. Click the **Settings** tab.
3. In the **Contact closure device** section, click **Change**.

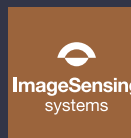


4. Use the drop-down to select the IP address of the contact closure module.
5. Click **Save changes**.

9 Contact closure options will now be configurable for each zone in the "Zones" tab.



10 For information on using the software, refer to the RTMS Echo User Guide.



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