

QUICK START GUIDE

LBH AND LMC SERIES

INDUSTRIAL SWITCH

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



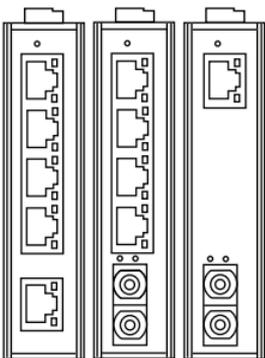
STEP 1 - Hardware Description

INDUSTRIAL MINI SWITCHES

- LBH120A-H (TWISTED PAIR CONNECTORS)
- LBH120A-H-SC (SC FIBER CONNECTORS)
- LBH120A-H-ST (ST FIBER CONNECTORS)
- LBH120A-H-20K-SC (SC FIBER, 20KM DISTANCE)
- LBH120A-H-40K-SC (SC FIBER, 40 KM DISTANCE)
- LBH120A-H-75K-SC (SC FIBER, 75 KM)
- LBH120A-H-20K-ST (ST FIBER, 20 KM)

INDUSTRIAL MEDIA CONVERTERS

- LMC270A-MM-SC (SC FIBER MULTIMODE)
- LMC270A-MM-ST (SC FIBER MULTIMODE)
- LMC270A-SM-20K-SC (SC, SINGLE-MODE, 20 KM DISTANCE)
- LMC270A-SM-40K-SC (SC, SINGLE-MODE, 40 KM DISTANCE)
- LMC270A-SM-75K-SC (SC, SINGLE-MODE, 75 KM DISTANCE)
- LMC270A-SM-20K-ST (ST, SINGLE-MODE, 20 KM DISTANCE)



LBH120A-H, LBH120A-H-SC, LMC270A-MM-SC

TABLE 2. LED INDICATORS

LED	STATE	DESCRIPTION
Link/Act	Steady	Network connection established
	Flashing	Transmitting or receiving data
100	Steady	Transfer at 100 Mbps
	Off	Transfer at 10 Mbps



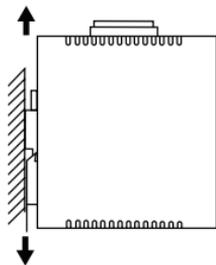
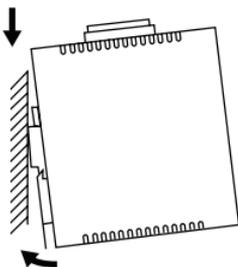
STEP 2 - Install on DIN Rail

INSTALL THE UNIT ON THE DIN RAIL

Place the switch on the DIN rail from above using the slot. Push the front of the switch toward the mounting surface until it audibly snaps into place.

DISMANTLING

Pull out the lower edge and then remove the device from the DIN rail.



STEP 3A - Connect 10/100BASE-TX

10/100BASE-TX CONNECTIONS

The table below lists the pinouts of the 10/100BASE-TX ports. The picture at right shows the connector pinout.

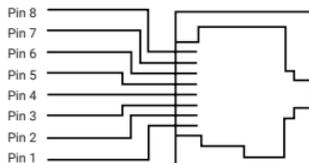


TABLE 1. 10/100BASE-TX PINOUTS

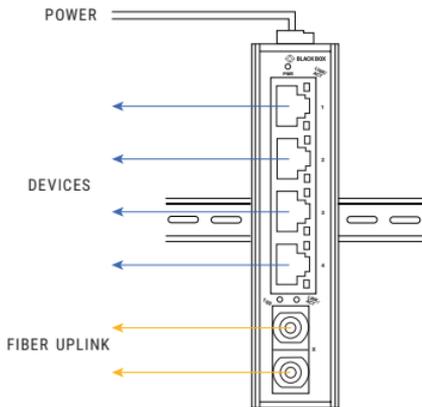
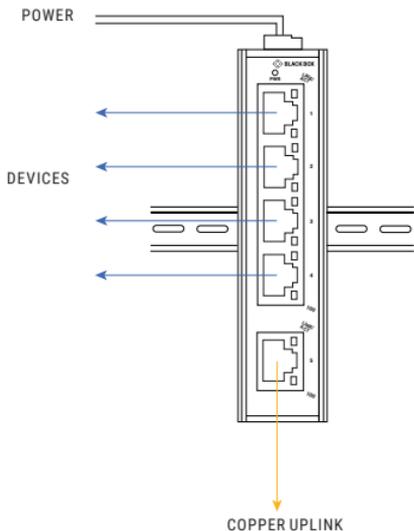
PIN	REGULAR PORTS	UPLINK PORT
1	Input Receive Data +	Output Transmit Data +
2	Input Receive Data -	Output Transmit Data -
3	Output Transmit Data +	Input Receive Data +
4	Not connected	Not connected
5	Not connected	Not connected
6	Output Transmit Data -	Input Receive Data -
7	Not connected	Not connected
8	Not connected	Not connected



STEP 3B - Connect 100BASE-FX

100BASE-FX CONNECTIONS

The Tx (transmit) port of device 1 is connected to the Rx (receive) port of device 2, and the Rx (receive) port of device 1 to the Tx (transmit) port of device 2. The fiber connector is shown at right.



STEP 4 - Connect the Power

GROUNDING THE UNIT

CAUTION: This equipment is designed to permit the connection of the grounded conductor of the DC supply circuit to the grounding conductor at the equipment.

For power connection, the following conditions must be met:

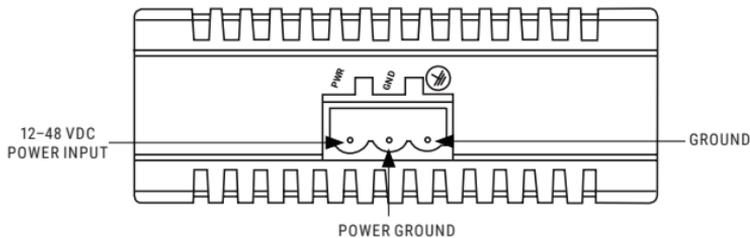
- This equipment must be connected directly to the DC supply system grounding electrode conductor or to a bonding jumper from a grounding terminal bar or bus to which the DC supply system grounding electrode conductor is connected.
- This equipment must be located in the same immediate area (such as, adjacent cabinets) as any other equipment that has a connection between the grounded conductor of the same

DC supply circuit and the grounding conductor, and also the point of grounding of the DC system. The DC system should not be grounded elsewhere.

- The DC supply source must be located within the same premises as the equipment.
- Switching or disconnecting devices will not be in the grounded circuit conductor between the DC source and the point of connection of the grounding electrode conductor.

STARTUP

Connect the 12–48 VDC power supply voltage to start up the switch via the terminal block.



STEP 5 - Download the User Manual (Optional)

OPTIONAL: DOWNLOAD USER MANUAL

For product specifications and regulatory information, refer to the User Manual. You can download this document from our web site.

1. Go to www.blackbox.com
2. Enter the part number (LBH120A-H) in the search box.
3. Click on the product in the "Product Results" page.

4. Click on the "Support" tab on the product page, and select the document you wish to download.

If you have any trouble accessing the Black Box site to download the manual, you can contact our Technical Support at 877-877-2269 or info@blackbox.com



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