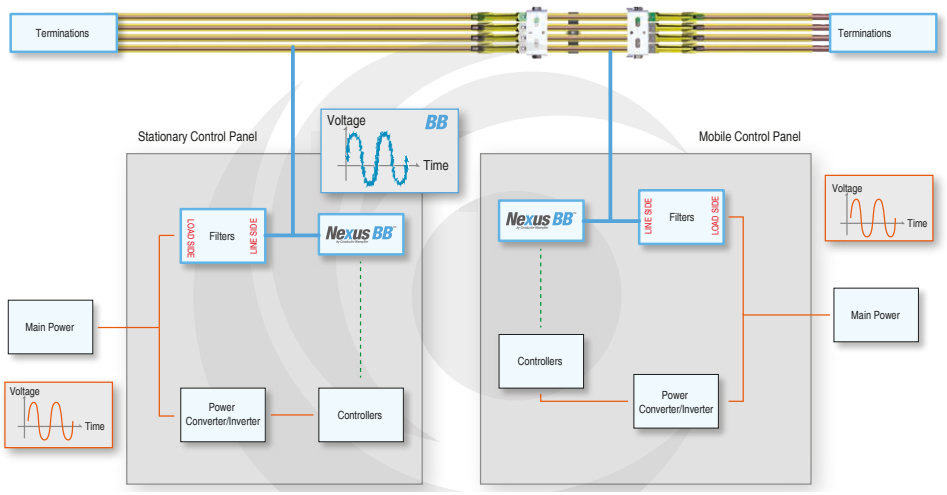
For more details, contact Conductix-Wampfler,
1-800-521-4888, press 1 for Customer Service, or
customerservice@conductix.com

Nexus BB

Quick Installation, makes data communication easy.

Nexus BB is a new data communication solution for mobile industrial applications. Nexus BB utilizes the power conductor to send Ethernet communication signals. This technology provides a secure and reliable data communication link for mobile equipment. Since the system utilizes data over power technology it is quick and easy to install with no special tools or networking experience being needed.

Nexus BB was designed to mount into an enclosure. It has a simple spring loaded clip for installation onto a DIN rail. Nexus BB only requires hardware at the power feed in point and then on the mobile equipment side. The incoming power is wired into the load side of the filter that is provided as part of the Nexus BB system. The outgoing power on the line side of the filter is wired into a termination block to be split two ways. One of the outgoing lines is wired into the power feed for the physical conductor such as a power feed for a conductor bar or feed in side of a spring reel. The second line from the termination block is wired into the Nexus BB power connection. Nexus BB uses a universal power supply that works from 120-480 VAC 150-300 VDC for the modem. The Nexus BB modem utilizes one connection to both power the modem and send out the communication signal. The Nexus BB will accept a 12-18 AWG cable for the feed in side. Then simply plug the RJ45 Ethernet connection into your network.



On the mobile side the process is very similar in that the power from the conductor system is brought into a termination block. One side is wired into the line side of the filter before passing through the filer and on to power to the mobile equipment. The second leg of the terminal block goes to the Nexus BB modem. The modem accepts the universal power and converts the information back into an Ethernet communication. Then connect the RJ45 Ethernet connection to the PLC, camera, network switch, etc. that you want to communicate with. If installed on a conductor bar system then a termination will be installed on either; both ends for a center feed application or the opposite end of an end feed application. The termination has one wire per phase that is connected to a power feed at the end of the conductor bar system. Once this is completed the power is turned on and the modems automatically link up and start communication within 2 minutes. You have now created a hardline Ethernet communication link between the stationary and mobile equipment.

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