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SmartLINK Serial Communication

General

MCE SmartLINK Serial Communication options include SmartLINK Serial Communication for Car Operating Panel and SmartLINK Serial Communication for Hall Fixtures. Both systems are designed to reduce required wiring and thereby reduce labor and cost. Depending on project requirements, a consultant or contractor can choose these systems for the specific application.

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SmartLINK for Car Operating Panels

SmartLINK for Car Operating Panel (COP) provides simplified wiring, reduced installation time and elimination of heavy, multi-strand traveling cables. At the heart of SmartLINK for COP is LonWorks® networking technology from Echelon®, integrating advanced semiconductor, communications and networking technologies using reliable Neuron® chips and transceivers.

With SmartLINK, a four-wire network conveys COP signals to the controller. The COP can have up to 64 front car calls, 64 rear car calls and 64 call lockout inputs. In addition, another 32 inputs and 32 outputs are available. Of the 32 available inputs, eight are standard. The other 24 are optional and are defined in a variable file.

SmartLINK Serial Communication for Car Operating Panel may be used with any MCE traction elevator controller (SCR, AC or MG) that is part of an M3 or AIM Group System.

Specification Text, Car Operating Panels

Car operating panel signals shall be conveyed to the controller using a four wire serial network. This network shall use LonWorks networking technology. The system shall have the capability to handle signals for up to 64 front car calls, 64 rear car calls and 64 call lockout inputs. In addition, another 32 inputs and 32 outputs shall be available.

SmartLINK for Hall Fixtures

SmartLINK for Hall Fixtures uses a two wire bus to provide power to hall fixtures as well as two-way communication between the fixtures and the controller. Up to 98 floors, with up to 10 signals per floor, are supported. Node boards at each hall fixture provide power regulation to ensure constant lamp intensity. The system supports up to four buses to accommodate multiple risers and redundancy.

System diagnostics identify the location of most node or lamp failures. Overall system operation is unaffected by most node failures. A simple decimal floor addressing scheme, plus the ability to swap node boards with power on the bus, allows easy installation and maintenance. Robust circuitry using high voltage logic and low clock frequency provide EMI/RFI immunity, high ESD protection and minimal radio frequency radiation.

SmartLINK Serial Communication for Hall Fixtures may be used with any M3 or AIM Group System.

Specification Text, Hall Call Fixtures

Hall fixture signals shall be conveyed to the controller using a two wire bus. The bus shall provide power to hall fixtures as well as two-way communication between the fixtures and the controller. The system shall have the capability to support up to 98 floors and up to 10 signals per floor.