

connection of such devices with some industrial devices requires electrical isolation from high voltage circuitry of the respective industrial devices. Unfortunately, electrical isolation circuits capable of providing isolation from high voltage circuitry are typically expensive, which increases overall costs of certain industrial devices.

BRIEF DESCRIPTION

[0005] According to one embodiment of the present invention, a control module for an industrial device is provided. The control module includes a coupling feature configured to facilitate removable attachment of the control module with the industrial device and a communicative coupling feature configured to facilitate communication between the control module and the industrial device when coupled with a corresponding communicative coupling feature of the industrial device. The control module also includes a port configured to communicatively couple with a connector capable of supplying power and data communication, wherein the port is configured to receive power via the connector and exchange data with a computer via the connector, and wherein the port is inaccessible while the control module is coupled with the industrial device.

[0006] In accordance with another aspect, an industrial automation system is provided. The industrial automation system includes an industrial device and a control module removably coupled with the industrial device such that the control module communicates with and receives power via the industrial device. The industrial automation system includes a port integral with the control module and configured to communicatively couple with a connector capable of supplying power and data communication, wherein the port is configured to receive power via the connector and exchange data with a computer via the connector, and wherein the port is inaccessible while the control module is coupled with the industrial device.

[0007] In accordance with another aspect, a method for programming a control module of a high voltage industrial device is provided. The method includes maintaining a communicative coupling between the control module and a connector via a port disposed on the control module, the port being inaccessible while the control module is coupled with the high voltage industrial device. The method includes preventing communicative coupling between the control module and the high voltage industrial device while