

Digital Vision Network

RS485 Interface for DOME Control

Description

The RS485 interface for DOME control is designed to make industrial port expansion quick and simple. Connecting to the Universal Serial Bus (USB) port or USB hub, this interface instantly adds an industrial communication port to your system, making it easy to add RS422 or RS485 devices using plug-and-play and hot-plug features. This DB9 male connector is used as the DOME control interface as part of the Johnson Controls® Digital Vision Network (DVN) suite of products.

The interface has an internal 128 byte transmitter buffer FIFO (First In/First Out) and a 384 byte receiver buffer FIFO. It supports data transfer rates of up to 230K bits per second (bps). No external power supply is required – power is supplied to the interface from the USB bus.

The USB adaptor provides industrial solutions for applications requiring single node or multi-drop communications over short and long distances. The adaptor is automatically detected and installed when plugged into the USB port. There are no Interrupt Request (IRQ) or COM port conflicts, as none of these resources are required by the port.

Connection to the USB is via 0.9m detachable USB cable (supplied).

Note: There is a maximum of 3 PTZ cameras, which may be supported from a single DVN-DOMECONT. When additional PTZ camera control is required, multiple DVN-DOMECONTs can be used, which are connected to different USB ports of the DVN.

Main Features

- USB compatible.
- RS422/RS485 interface for DOME control.
- No external power requirements.
- Maximum transmission speed up to 230 bps.

Data and Control Signals

- TX+
- TX-
- RX+
- RX-
- GND
- RTS+
- RTS-
- CTS+
- CTS-



RS485 Interface

Hardware Options

Part Number	Description
DVN-DOMECONT	USB RS232 interface for Dome Control