

## DIDO in Industrial Switches



### Overview

Digital I/O (DI/DO) provides a simple yet powerful way to monitor a machine's status (e., turn on a warning light). The four main types of signals— Digital Input (DI), Digital Output (DO), Analog Input (AI), and Analog Output (AO) —play vital roles in ensuring smooth and efficient operations in manufacturing, process industries, and automation. Each of these signals serves a unique function, enabling the. Robert Liao is an IoT Technical Support Engineer at Robustel with hands-on experience in industrial networking and edge connectivity. Certified as a Networking Engineer, he specializes in helping customers deploy, configure, and troubleshoot IIoT solutions in real-world environments. In addition to. Digital IO and analog IO are the most basic terms of any PLC/DCS based control and microcontroller-based applications. A PLC collects data from the field process it as pre-programmed and produces one or more outputs.

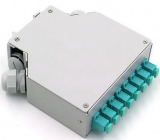
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A Digital Input (DI) is like a simple light switch. It only tells the system YES or NO, ON or OFF. These signals come from devices such as push buttons, limit switches, pressure switches, or ...



Digital Input (DI) signals are binary signals received by the control system from external devices, indicating two distinct states: ON/OFF or 1/0. DI signals are typically used to monitor discrete events, ...



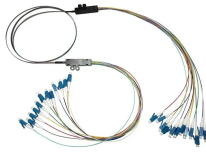
In simple words, any push-button, switches or sensors produces digital inputs to a PLC. Digital inputs are used to check the status of any devices whether it is ON or OFF.



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When a system takes inputs in digital format then it is called Digital Input, in short DI. A Digital signal is basically a binary format signal. It is a discrete signal not continuous. The magnitude ...



Digital Input (DI) is one of the most common signal types in industrial automation, used to capture digital signals from external devices. These signals have two possible states: high (1) or low (0).



Switching signal DI and DO are often used in industrial control, automated production and intelligent management, etc. DI and DO are used in monitoring and control for real-time ...



If, for example, a value of 150 is specified for DIDO for CPU 317 (applies to the alternative operation of measuring points, DIDO and COM10/COM15/SIMOCODE), 150 switches, each with 7 bits, can be ...



This engineer's guide to connecting industrial machines focuses on two of the most critical interfaces found on an industrial router: the RS485 serial port and Digital I/O (DI/DO).



PLC Wiring Diagrams use the following components: DI (Digital Inputs), DO (Digital Outputs), AI (Analog Inputs) and AO (Analog Outputs). Knowing how to read and interpret these ...



AI, AO, DI, and DO refer to the types of input and output signals handled by control and monitoring devices such as PLC, DCS, DAQ. AI, AO, DI, and DO are acronyms used in automation, ...

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