

5.15. Digital Input High Voltage- CC-PDIH01

Function

The Digital Input High Voltage accepts 120VAC / 125VDC (CC-TDI110, 120), 120VAC (CC-TDI151 PROX) or 250VAC (CC-TDI2xx) signals as discrete inputs. The same IOM but different IOTA is used for both the 120VAC / 125VDC and 250VAC models. This reduces the number of spares required to support Series C system maintenance.

Notable Features

- Extensive internal diagnostics to ensure data integrity
- Optional redundancy (except CC-TDI151)
- Input direct/reverse
- Galvanic isolation

Detail Specifications - Digital Input High Voltage

| Parameter | Specification | | | | | |
|-------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------|---------------------------|----------------------------------|---------------|-----|
| Input / Output Model | CC-PDIH01 – Digital Input High Voltage | | | | | |
| Input Channels | 32 | | | 32 | | |
| Galvanic Isolation (field to logic common) | 1500 VAC RMS or ±1500 VDC | | 1500 VAC RMS or ±1500 VDC | | | |
| Isolation Technique | Optical | | Optical | | | |
| | 120 VAC IOTA | | 240 VAC IOTA | | | |
| IOTA Models | CC-TDI110 | Non Redundant | 9" | CC-TDI220 | Non Redundant | 9" |
| | CC-TDI120 | Redundant | 12" | CC-TDI230 | Redundant | 12" |
| | CC-TDI151 | Non Redundant | 12" | | | |
| IOTA Specific Specifications | CC-TDI151 | CC-TDI110 & CC-TDI120 | | CC-TDI220 & CC-TDI230 | | |
| Nominal Voltage | 120 VAC (PROX) | 120VAC | 125 VDC | 240VAC | | |
| Digital Input Pwr. Range | 90-132 V AC RMS | 90-132 V AC RMS | 100-138 V DC | 180-264 V AC RMS | | |
| Sense Current (ON condition) minimum | 7.5 mA RMS at 90V RMS | 1.0 mA | 1.2 mA | 1.11 mA RMS | | |
| | 10 mA RMS at 132V RMS | | | | | |
| Sense Current (OFF condition) maximum | 2.0 mA RMS | 0.32 mA | 0.32 mA | 0.32 mA RMS | | |
| Pick Up Voltage (ON condition) minimum | 90 VAC RMS | 90 VAC RMS | 100 VDC | 180 VAC RMS | | |
| Drop Out Voltage (OFF condition) maximum | 20 VAC RMS | 25 VAC RMS | 25 VDC | 50 VAC RMS | | |
| Absolute Delay Across Input Filter and Isolation (Bounceless Input to logic level change) | 25 ms maximum | 25 ms maximum | 10 ms maximum | 25 ms maximum | | |
| Frequency Range | 47-63 Hz | 47-63 Hz | NA | 47-63 Hz | | |