SIMATIC ET 200ISP DIGITAL OUTPUTS

# Product Data Sheet

## 6ES7132-7RD20-0AB0

Four-channel intrinsic-safe digital output

| DIGITAL OUTPUT CHANNELS | OPEN-CIRCUIT OUTPUT VOLTAGE | INTERNAL RESISTANCE | RATED CHARACTERISTIC POINT |
|---|---|---|---|
| **4** | **17.4 V DC** | **150 ohm** | **11 V DC at 40 mA** |

Siemens 6ES7132-7RD20-0AB0 is a four-channel ET 200iSP digital output submodule with a 17.4 V DC open-circuit characteristic. The documented operating point is 11 V at 40 mA. Two outputs can be connected in the prescribed parallel arrangement to provide an 80 mA characteristic.

## 01 TECHNICAL DATA

| | |
|---|---|
| Digital output channels | 4 |
| Open-circuit output voltage | 17.4 V DC |
| Internal resistance | 150 ohm |
| Rated characteristic point | 11 V DC at 40 mA |
| Paired output capability | 80 mA with documented parallel connection |
| Maximum load-supply demand | 400 mA without load |
| Typical dissipation | 2.8 W |
| Resistive rising delay | 2 ms maximum |
| Resistive falling delay | 1.5 ms maximum |
| Resistive switching limit | 100 Hz |

Siemens 6ES7132-7RD20-0AB0 manufacturer specification, applicable pages 1, 2.

## 02 ADDITIONAL PRODUCT DATA

| | |
|---|---|
| Inductive switching limit | 2 Hz |
| Maximum signal cable | 200 m |
| Open-wire condition | Above 10 kohm and below 100 microampere |
| Short-circuit threshold | Below 800 ohm single; below 40 ohm parallel |
| Field-to-backplane isolation | Provided; no isolation between channels |

## 03 PRODUCT FUNCTION

The module supports configurable diagnostic alarms, open-wire and short-circuit diagnostics, plus individual green output indicators. Resistive switching is specified up to 100 Hz and inductive switching up to 2 Hz. The field outputs are isolated from the backplane and load supply, while the four channels share their internal reference.

## 04 SYSTEM COMPATIBILITY

Where the documented paired-output connection is used, select its wiring and fault thresholds explicitly. Shared channel reference and the 200 m cable limit remain part of the circuit design.

## 05 REFERENCE

Siemens 6ES7132-7RD20-0AB0 manufacturer specification, applicable pages 1, 2.

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