TWDLMDA20DRT

Schneider Electric / Twido Modular Base Controller

Schneider Electric TWDLMDA20DRT is an extendable Twido modular base controller with a 24 V DC supply, twelve discrete inputs and eight mixed relay/transistor outputs. It integrates field signals and logic in an existing Twido control installation.

Product identity and system role

The controller provides twelve 24 V DC discrete inputs for field contacts and eight discrete outputs, comprising six relay and two transistor points. The mixed output construction matters when replacing a base: relay loads and transistor-driven circuits must retain their original wiring and ratings.

Expansion I/O and the installed application program define the complete machine function. Record the populated expansion modules, terminal assignments, communication arrangement and Twido program before replacement; the base controller alone does not define every field point.

Schneider marks TWDLMDA20DRT discontinued and identifies Modicon M221 plus suitable expansion as migration options. A migration requires I/O mapping, program conversion, electrical checks and site acceptance; it is not an automatic one-for-one board swap.

Verified technical characteristics

Controller series	Twido modular
Primary supply	24 V DC
Discrete inputs	12, 24 V DC
Discrete outputs	8 total: 6 relay and 2 transistor
Discrete I/O total	20
Published power	19 W
Published resolution	9 bits
Manufacturer status	Discontinued
Expansion role	Extendable modular base

Engineering context

Existing Twido control panels

Maintain an installed Twido machine-control panel that specifies this exact 20-point modular base.

Mixed-output machine sequences

Keep relay-switched loads and transistor output circuits assigned to their correct output types.

Expansion I/O installations

Review fitted Twido expansion modules and their bus arrangement as part of the complete controller configuration.

M221 migration projects

Use the Schneider replacement guidance as a starting point for a redesigned I/O and software migration, subject to engineering approval.

Configuration and verification

Record the installed program: Back up the Twido application, parameters and communication settings before removing the base.

Separate output technologies: Identify all six relay and two transistor load circuits before reconnecting field wiring.

Verify DC supply: Confirm polarity, protective devices and available 24 V DC capacity at the controller terminals.

Map expansion hardware: Document each expansion module, order and bus connection against the original design.

Protect outputs during test: Isolate loads as required and validate output actuation under the approved commissioning procedure.

Revalidate any migration: If changing to M221, test all I/O, logic, communications and safety-related external circuits as a new configuration.

Selected engineering questions

Which backup should be retained before replacing TWDLMDA20DRT?
Keep the original Twido project, controller settings, I/O allocation, communication parameters and an as-found wiring record.

Can a Modicon M221 replace TWDLMDA20DRT without changing the program?
No direct equivalence is established; plan software conversion, terminal mapping, expansion selection and validation.

How should the mixed outputs on TWDLMDA20DRT be identified?
Trace each terminal to the site drawing and distinguish relay contact loads from the two transistor outputs.

What can cause a new TWDLMDA20DRT to show healthy logic while a load remains off?
Check the output type, field supply, protective device, terminal assignment and program condition.

How should expansion modules be checked with TWDLMDA20DRT?
Record exact module order codes and positions, then confirm the bus and power design before installation.

Which evidence is useful when a TWDLMDA20DRT input does not change state?
Compare field voltage, common wiring, terminal status and the corresponding project variable online.

What should be checked before commissioning a migrated TWDLMDA20DRT installation?
Validate the converted program, I/O list, communications and every affected machine function against the approved test plan.

How is a replacement TWDLMDA20DRT accepted after installation?
Record input and output tests, fault indications, program version and restored machine sequence results.

Source and application boundary

Schneider Electric TWDLMDA20DRT product page, Twido modular-base user guide 35011387, and Schneider replacement FAQ FA305178.

The 24 V DC supply and I/O count apply to TWDLMDA20DRT. Replacement-controller combinations are migration candidates, not drop-in electrical or software equivalents.

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Send the complete model and installed-system details when requesting a quotation.