

VEW PMC10/20 RED Door Control

The VEW PMC10/20 RED door control unit is a plug-and-play compatible redesign of the original module manufactured by IFE.

The PMC10/20 RED controls the drive unit of a double-leaf swing/sliding door used on light rail vehicles, based on binary signals from the door area (limit switches, door position encoder, etc.), the passenger compartment (door push buttons), and the central vehicle control system.

The door control unit comprises a processor-controlled logic system (featuring an 80C537) for handling the control functions, current-limited power electronics with relay outputs for driving the electric motor, and 8 binary outputs with short-circuit-protected MOSFETs. High-quality, reliable power relays from the automotive

sector are employed. While the control logic is freely programmable in principle, in practice it is generally operated using the software of the original control system stored on the EPROM.

All binary states of the inputs and outputs are displayed via LED indicators. By employing system-specific software, inserted as an EPROM into an available socket, control requirements for different applications can be implemented. The PMC10/20 RED module is delivered without an EPROM and is intended to be equipped by the user with the door drive software stored on the EPROM.

For data retention, a buffered CMOS RAM is used, ensuring a controlled restart after a power failure.

The VEW PMC10/20 RED module is available in different versions, which can be customized on a case-by-case basis to meet the requirements of the specific application.

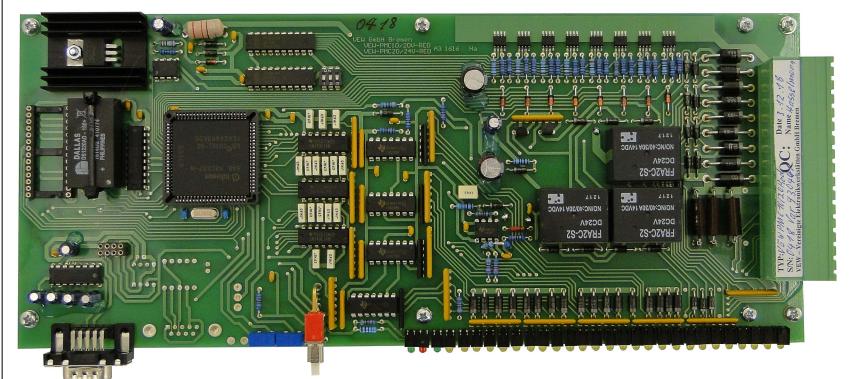
Please provide us with a fully functional original module from your system. We will verify compatibility and supply a fully compatible sample for testing in the target application.

The original housings can continue to be used, as all dimensions and mounting elements conform to those of the original module.

The redesigned versions of the door control units are currently in operation in various light rail systems.

Test samples are available from stock.

**Redesign
BVG+VGF**



Technical data:

Power supply	: 24VDC $\pm 30\%$
Controller power consumption	: 150-300mA
Maximum motor current	: 20 A, short-circuit protected
Binary inputs	: 16; common 0 V; with LED indication
Input current	: 10mA at 24VDC
Binary outputs	: 8; high-side FETs; with LED indication
FET output load	: 1.5 A; short-circuit protected
Power relays	: 3; high-load relays 30/40 A

VEW
DIE ENTWICKLER

VEW Vereinigte Elektronikwerkstätten GmbH
Edisonstraße 19 * Pob: 330543 * 28357 Bremen
Fon: (+49) 0421/271530 Fax: (+49) 0421/273608
E-Mail: info@vew-gmbh.de / www.vew-gmbh.de