

# IFZ-BUS sender- and receiving unit VEW 10LU11 RED

## Redesign

The original module 10LU11 by the manufacturer Bombardier can be replaced via „plug and play“ by a fully measure-, pin- and function-compatible Redesign.

The module VEW 10LU11 RED is applicable as a sender- and receiving unit for the IFZ-bus in the network of the IC-V-computer system MICAS-C.

The sender unit issues a  $\pm 24V$  with clock-controlled alternating polarity at the IFZ-bus output. The short-circuit system will be limited to maximal 2,4A with positive and to -3A with negative IFZ-bus signal. The received IFZ-bus signal is amplified and commutated to the internal current analysis. This issues the signals at the base header with TT-level with a maximal delay of 25ms.

An internal short-circuit monitoring deactivates the sender unit after 110ms in case of excessive current spikes on the IFZ-bus.

A test receptacle offers the possibility to simulate short circuits to test the function of the short-circuit system monitoring.

Alternatively, the integrated watchdog function can be switched on.

This issues, via an input on the basis access, clock-controlled, timed intervals of the excess current simulation.

The 5V-logic and the  $\pm 24V$  IFZ-bus deactivation are electrically isolated by optocouplers.

The circuitry of the original module has been fully revised without changing the functionality.

Obsolete components have been replaced by commercially available components of the same function.

The mixed instrumentation of the original PCB with SMD and leaded modules has been rearranged to a single-sided instrumentation with leaded modules. The performance drivers of the IFZ-bus have an enlarged cooling surface.



### Samples available ex stock.

#### Technical data:

input voltage	: $\pm 24V$ DC front port; 5V DC base pin strip 41612F
„quasi“ analog inputs	: IFZ-Bus maximal $\pm 1,3 \dots 2,4A$
binary input	: IFZ-Tact for Watchdog 5V Trigger for Watchdog 5V release for Watchdog 5V 3x external noise 5V selftest 5V
binary output	: short circuit feedback 5V signal evaluation 5V negated signalevaluation 5V disorderevaluation 5V Watchdog active 5V IFZ-Tact inverted 5V H01 15mA LED out, -24V, RV on PCB H03 15mA LED out, -12V, RV on PCB H04 15mA LED out, -12V, RV on PCB
IFZ-Bus-output	: IFZ-Bus $\pm 24V$ DC „Signalamplification“ $\pm 12V$ DC



#### 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](mailto:info@vew-gmbh.de) / [www.vew-gmbh.de](http://www.vew-gmbh.de)