

Specifications

UIC line Input/Output	24 VDC \pm 20%
DU line Input/Output	24 VDC \pm 20%
Voltage Drop in 'Normal mode'	max. 1 VDC
Voltage Drop in 'DU mode'	max. 0.5 VDC
Current Limit in "DU mode"	\approx 1.7 A
Operating Temperature	-40...80 °C
Operating Humidity	0...90% RH
Protection Class	IP20
Approvals	EN50155, CE, LVD

Warranty and Support

.....
serial number

.....
manufacturing date

QC check mark(passed)
(stamp)

BASI Instrument AB
Torget 2
SE-275 66 VOLLSJÖ, SWEDEN
tel: +46 (0)40 88009
fax: +46 (0)40 929877
e-mail: sales@basi.se

Warranty

BASI Instrument AB warrants this product to be free from defects in materials and workmanship for 2 years. If your unit is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear or tear, or consequential or incidental loss. This warranty does not cover any defects caused by wrong transportation, storage, installation, or operating (see '**Specifications**').

Technical support

In the unlikely event that you encounter a problem with your BASI device, please call your local dealer or contact directly our support team.

QD-8.2.4-WC

v1-06.09

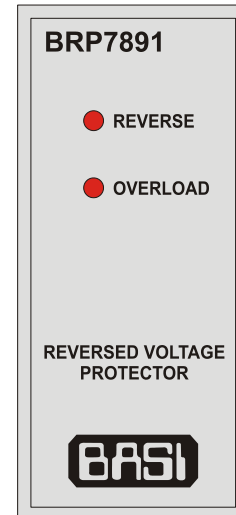
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REVERSED VOLTAGE PROTECTOR

BRP7891

OPERATION MANUAL

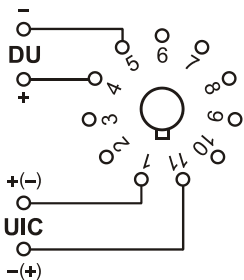


Please read this Operation Manual before mounting and operating!
Save the Manual for future references!

Overview

BRP7891 is an 11-pin-box-enclosed unit especially designed for reversed voltage protection in railway wagon emergency-brake and automatic-door control system. It allows disconnection of UIC to DU supply if UIC voltage is reversed due to the emergency brake situation. The unit also allows supplying of UIC line from DU voltage with a current limiter. BRP7891 is equipped with 2 LED lamps indicating alarm states of the system.

Wiring



- ◆ Wire the unit as shown on the left.
- ◆ Check the UIC/DU voltage and load limitations (see 'Specifications').
- ◆ In order to minimize measuring errors, make sure the connecting socket-base screws are tightened enough.



Important note:

Reversed UIC-voltage polarity is shown in brackets!
Normal polarity is: 1(+) and 11(-).

Mounting

BRP7891 can be easily mounted on every 35 mm rail conforming to EN50022 by the means of a standard UNDECAL socket base.

Functioning



Important note:

BRP7891 switches its function modes automatically depending on UIC and DU voltage status.

Normal mode

- ◆ UIC voltage exists with normal polarity on terminals 1 and 11.
- ◆ The voltage on terminals 4 and 5 depends on UIC and DU voltage (which is higher - voltage drop).
- ◆ No (substantial) current flows through the unit.

Reversed mode

- ◆ UIC voltage comes with reversed polarity on terminals 1 and 11.
- ◆ The unit breaks the connection between UIC and DU terminals.
- ◆ 'REVERSE' LED lights.

DU mode

- ◆ UIC line is powered by the DU voltage and terminals 1 and 11 repeat the voltage on terminals 4 and 5.
- ◆ The current is limited to 1.7 A.
- ◆ 'OVERLOAD' LED lights if current limitation is reached.

Indication

The LEDs on the device front panel indicate the following:

- UIC voltage has reversed polarity ('REVERSE');
- DU source is overloaded by UIC current ('OVERLOAD').