



Version 15

# JK 2000

## Loop Isolator



Swappable  
plug in and out

The galvanic separator JK 2000, self-powered loop isolator, allows to solve the problems of common points for complex measurement circuits and to reduce the spread of interferences.

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## Presentation

This range of isolators comes in a small footprint case which can be snapped into the symmetrical or asymmetrical DIN rail.

We have also a version that uses our BASELINE, and allows the loop isolator to be hot swappable.

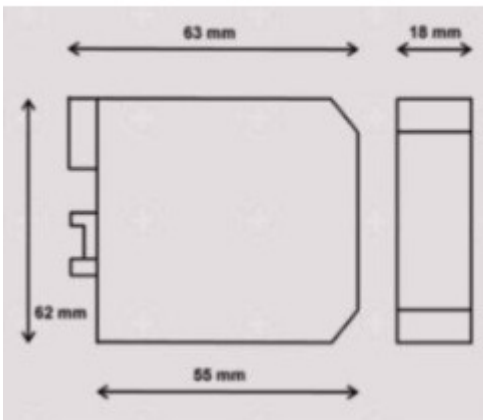
JK 2000 is guaranteed 5 years.

## Range

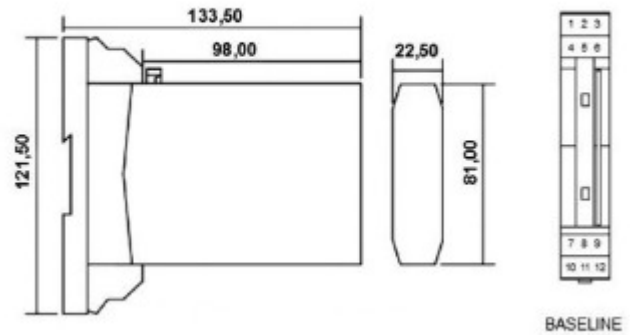
| Isolator         | Inputs<br>Current  |   | Outputs<br>Current |   | Impedance    |            |            |
|------------------|--------------------|---|--------------------|---|--------------|------------|------------|
|                  | Number of channels |   | Number of channels |   | 150Ω<Rc<550Ω | 0Ω<Rc<250Ω | 0Ω<Rc<350Ω |
|                  | 1                  | 2 | 1                  | 2 |              |            |            |
| JK2001 - JK2001D | ✓                  |   | ✓                  |   | ✓            |            |            |
| JK2002           | ✓                  | ✓ | ✓                  | ✓ | ✓            |            |            |
| JK20S1           | ✓                  |   | ✓                  |   |              | ✓          |            |
| JK20S2           | ✓                  | ✓ | ✓                  | ✓ |              | ✓          |            |
| JK20A2           | ✓                  | ✓ | ✓                  | ✓ |              |            | ✓          |

## Dimensions

JK2000



JK2001D



JK2000 - Dimensions : width : 18 mm - Height : 62 mm - Depth : 55 mm

JK2001D - Dimensions : width : 22,5 mm - Height : 81 mm - Depth : 98 mm

**i** BASELINE boards are to be ordered separately  
 22,5 mm Case : Reference BL01ALV  
 For multi-converter boards, please consult us.

## Inputs - Outputs

### Input gauge

|                      |              |
|----------------------|--------------|
| Current (continuous) | 0...4...20mA |
|----------------------|--------------|

### Output gauge

|                |              |
|----------------|--------------|
| Output Current | 0...4...20mA |
|----------------|--------------|

## Characteristics

|   |   |
|---|---|
| <b>Input characteristics</b>                |   |
| Input maximum voltage                       | <28Vdc  |
| Internal voltage drop                       | <1.3Vdc   |
| Input maximum current                       | <50mA   |
| <b>Output characteristics</b>               |   |
| Permissible impedance on the current output | 2001/2001D/2002 : $150\Omega < R_c < 550\Omega$<br>20S1/20S2 : $0\Omega < R_c < 250\Omega$<br>20A2 : $90\Omega < R_c < 440\Omega$ |
| <b>Isolation</b>                            |   |
| Input / Output(s)                           | 2000Vrms, 50Hz, 1mn   |
| Input x / Input y                           | 2500Vrms, 50Hz, 1mn<br>Mechanically and electrically independent  |
| Output x / Output y                         | 2500Vrms, 50Hz, 1mn<br>Mechanically and electrically independent  |
| <b>Auxiliary source</b>                     |   |
| Voltage supply                              | Self-Powered by the Entry loop  |

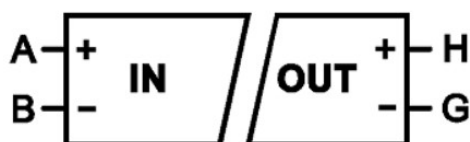
| General characteristics |  |
|-------------------------|--|
| Precision class         | 0,15   |
| Response time           | <30ms  |
| Thermal drift           | <50ppm   |
| Operating temperature   | -10°C ... +60°C  |
| Storage temperature     | -25°C ... +80°C  |
| Protection factor       | IP20 self-extinguishing polyamide housing V0 (black for JK2001D) |

## Options listing

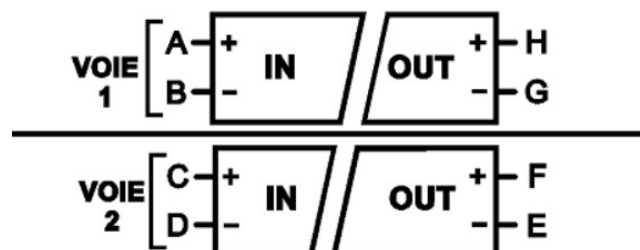
| Option   | Code device                        |
|--|------------------------------------|
| Lightning shock resistance<br>Rapport LCIE 60031114-529387 | JK 200X-F ou JK20SX-F<br>JK2001D-F |

## Wiring

### JK2001 - JK20S1



### JK2002 - JK20S2 - JK20A2



### JK2001D

