

### 699PLUS DIGITAL LOAD WEIGHING DEVICE



#### DESCRIPTION

699 Load Weighing Device allows to measure, to display and to control the load present in a lift cabin. It is fast and easy to install, reliable over time, it has a good price/performance ratio and it is suitable for both new lifts and for modernization of old installations.

The system allows the following functions:

- Automatic zeroing reset functions of the measurements
  - Catenary compensation with relay blocks while the car is moving
  - Possibility to use a calibration procedure with a sample weight (MANU) or without a sample weight (AUTO)
- Relays are available. They can activate alarms to indicate overload in the cabin.

699 device can be connected to strain gauge sensors (Strain Link 942) proposed by S2Tech, multirope sensors (MRL and MRB HL), single rope sensors (SR) or load cells for industrial applications where automatic control of the forces or loads being applied is required.

Different product configurations, according to type of connection to the sensors, are available:

- With RJ11 connector
- With screw plug
- With Microfit connectors

The device can be supplied as simple printed circuit for integration into the machine electrical control panel, or supplied with a robust metal housing that makes it possible to mount it in a difficult condition from a mechanical point of view.

A 4-button keyboard allows to program the unit and the LED gives indication of the power supply and relays status.

The 699 device can be used as load limiters on lifts, in other industrial lifting system for theatrical applications, on machines, weighing systems and generical applications.

## TECHNICAL CHARACTERISTICS

**Analog output:** +10 V; +5 V; 4-20 mA

**Digital output:** CANopen; RS485

**AD converter resolution:** up to 20 bit

**Electrical supply:** +24 Vcc

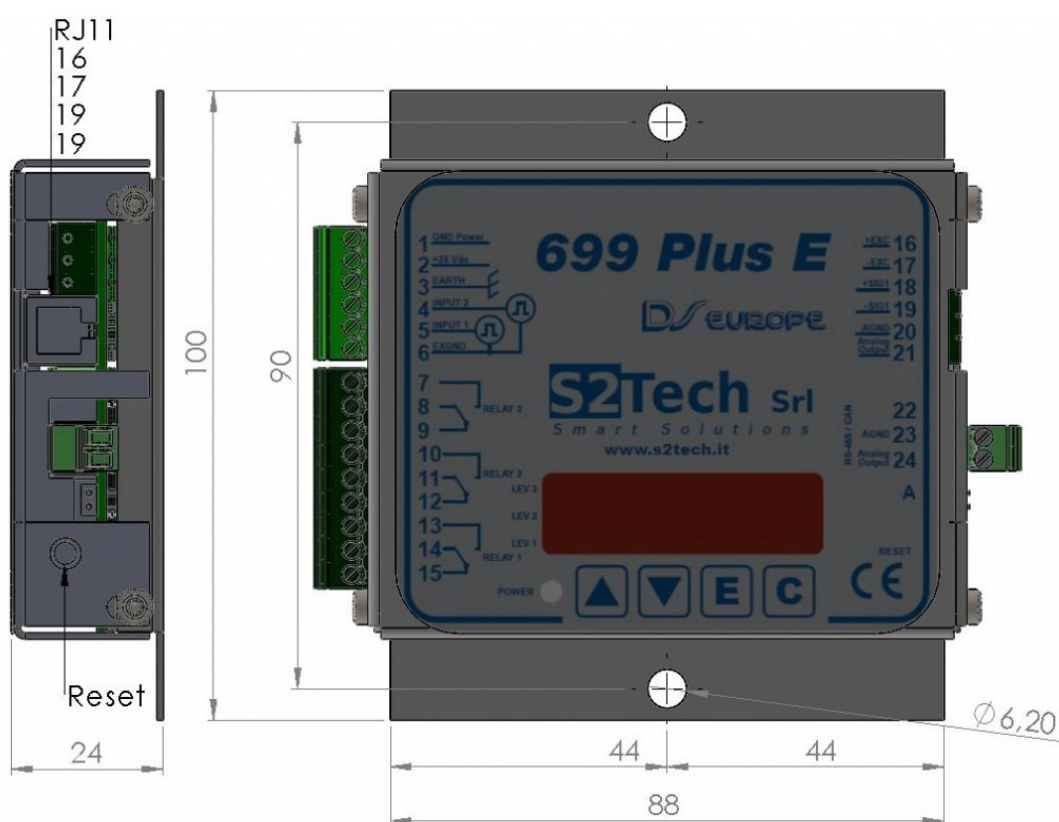
**Input signal:** from 0 to  $\pm 19,5$  mV or from 0 to  $\pm 39$  mV differential

**Nominal tension of strain gauge supply:** 5 Vcc

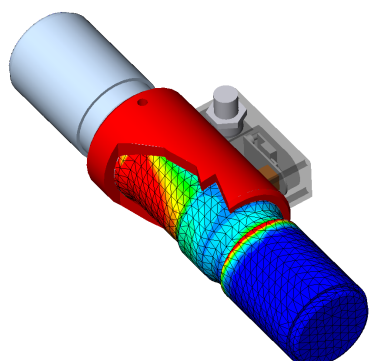
**Relays:** from 1 to 24 Vdc/125 Vac

**I/O digital input:** opto-insulated +12/24 Vcc (-20/+10%)

## OVERALL DIMENSION



## DEVELOPMENT AND MANUFACTURING OF CUSTOM PRODUCTS



**S2Tech technical department**, with 30 years of experience acquired with DS Europe, can develop products according to customers technical specifications with the following tools:

- **3D mechanical design** CAD software stations
  - **Finite Element Analysis** FEA software stations
  - **Digital and analog electronic** development accordingly to EMC (=CE) stricter industrial marking regulations (with tests in anechoic room at Competent Body third part laboratory)
  - **Software and embedded firmware** development according to most popular industrial bus systems (CANopen, Modbus, PROFIBUS etc.)
  - **Fast prototyping**
- S2Tech develops new products or modifies existing ones, in order to realize the fittest and more convenient product