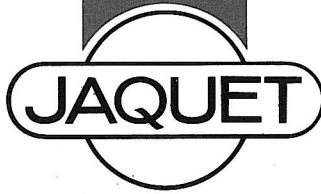


Swiss Made



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Operating instructions No. 618 E
FT 2000 Speed monitoring system
Isolating amplifier FTV 2095

This module is a signal amplifier with separated potentials between each other and between the input and output current circuits.

The signal isolation prevents the mutual influencing of the input and output current as well as the occurring of compensating potential currents between the different current circuits.

Technical data:

Dimensions: 19" rack mounting module, Europa card size

Height: 3 units = 132.5 mm

Width: 4 units = 20.32 mm

Frequency-entry: potential-free, DC-coupled, for rectangular pulses up to 30 kHz:

V high + 10 ...+ 15 V, resp. I > 5 mA

V low - 10 ...+ 1 V, resp. I < 0.5 mA

Dielectric strength 500 V, 50 Hz, against earth, front panel, power supply and current output circuit.

Frequency-output: potential-free, DC-coupled rectangular pulses up to 30 kHz and with an amplitude of 15 Vp
Max. allowed output current:

mean value: \pm 50 mA

briefly: \pm 100 mA

Output resistance: 100 Ohm

Suitable to trigger up to 12 frequency inputs of FT 2000 modules.

Dielectric strength 500 V, 50 Hz, against earth, front panel, power supply and current output circuit.

Auxiliary power: Direct voltage supply 18...33 V, max. 1.8 V. The supply voltage is stabilised at +5 V with a regulator and where necessary transformed isolated, by means of oscillation transformers. A LED (OK) shines, if a voltage of 15 V is available.

Protection against loss of supply: Supply voltage interruptions of up to 50 ms are bridged without malfunction.

Interference immunity:

| | Supply circuits | Input and output circuits |
|--|-----------------|---------------------------|
|--|-----------------|---------------------------|

| | | |
|------------------------|---------|---------|
| IEC 255-4 common mode: | 2.5 kVs | 2.8 kVs |
|------------------------|---------|---------|

| | | |
|-------------|---------|----|
| series mode | 1.0 kVs | -- |
|-------------|---------|----|

| | | |
|-----------------------|---------|---------|
| IEC 801-4 common mode | 2.0 kVs | 1.0 kVs |
|-----------------------|---------|---------|

Ambient temperature: 0...+60°C, +70°C for a max. of 2 hours.

Storage temperature: -20...+85°C

FT 2000

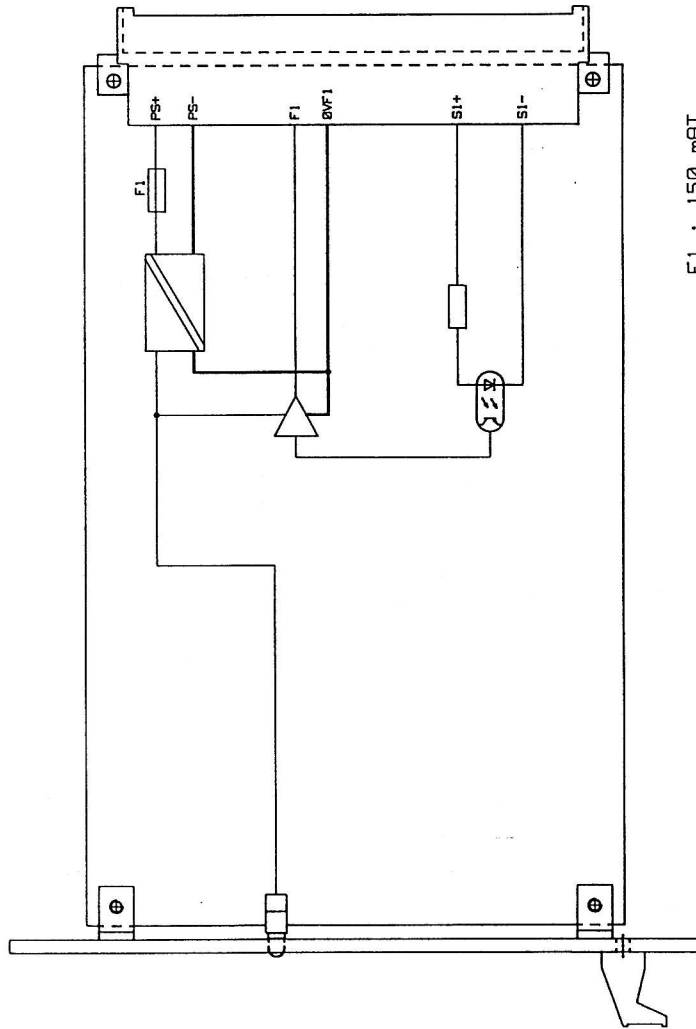
Anschlusschema
Connection diagram
Schéma de raccordement

FTV 2095

Trennschaltverstärker
Isolating amplifier
Amplificateur séparateur

d b z

- PS+ 2 Hilfsenergie Pluspol (+) / Power supply plus terminal (+) / Alimentation pole positif (+)
- PS- 4 Hilfsenergie Minuspol (-) / Power supply minus terminal (-) / Alimentation pole négatif (-)
- PE 6 Schutzleiter / Protective Earth / Conducteur de protection
- 0 0 0 8
- 0 0 0 10
- 0 0 0 12
- 0 0 0 14
- 0 0 0 16



F1 : 150 mA

- 0V F1 18 d 0V F1
- 0 0 0 18 b z
- 0 0 0 20
- 0 0 0 22
- 0 0 0 24
- 0 0 0 26
- 0 0 0 28
- 0 0 0 30

- SI+ SI- d JLSI+ Signal 1
- 0 0 0 32 b z
- 0 0 0 32 ULSI- Signal 1

Massbild
Dimensions
Côtés

3-110.544/2

Änderungen:



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