FREQUENCY INPUT SETPOINT DETECTORS

DS 10I



Features

- <u>Universal power supply</u>: 20 to 270 Vac and 20 to 300 Vdc
- Frequency measure input:

Possibility of connection (without external components) to npn, pnp, logic, namur, contact, AC to 500 V type sensors.

Outputs:

2 inverting relays (8A/250 VAC on resistive load).

DS C10I



Configuration

Easy programming on front face with a micro-console or with the PC software SUPERVision.

Programming with the Micro-console

The series DS accepts 2 types of µconsoles:

- the old generation with 4 alphanumerical electroluminescent green digits,
- the new generation with graphical rear-lit LCD.
- The LCD allows visualising 4 pieces of information:
- the measure value,
- the unit of the displayed measure,
- the product marking name,
- the status of the relay outputs.

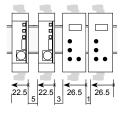
This μ console with LCD also allows displaying this information either vertically or horizontally, according to the sense in which the converter is mounted.

Programming by PC: SUPERVision

Programming software (Windows environment) allowing: - the storage of configurations as files which can be consulted, modified, duplicated or loaded into the converters, - the edition and printing of files with or without having a converter connected.

Dimensions

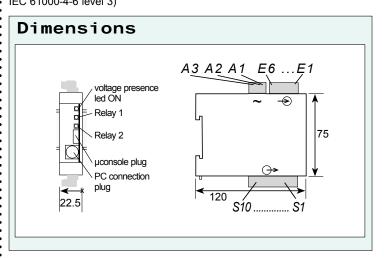
Self-extinguishing case of black UL 94VO ABS. Mounting in switchbox: latching on symmetrical DIN rail. *Rack version: consult.*



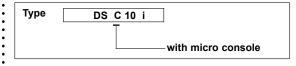
Dimensions: 22.5x75x120 mm with µconsole: 26.5x80x130 mm

To allow the inserting of the μ console, mount the instruments vertically (on horizontal DIN rail) leaving a 5mm space between each. <u>Operating T[°]</u>: -10° to 50°C <u>Storage T[°]</u>: -20 to 70°C

- CE according to IEC 61000-6-4, IEC 61000-6-2 (industrial environment).
- Disturbance immunity according to the standard
- IEC 61000-6-2 (IEC 61000-4-3 level 3, IEC 61000-4-4 level 4, IEC 61000-4-6 level 3)



Coding



Power supply:

20 to 270 VAC and 20 to 300 Vdc

Power draw : 3 W max. 4 VA max. Dielectric withstanding : 2 kV-50Hz-1min.

Order example: For a setpoint detector without console : DS 101





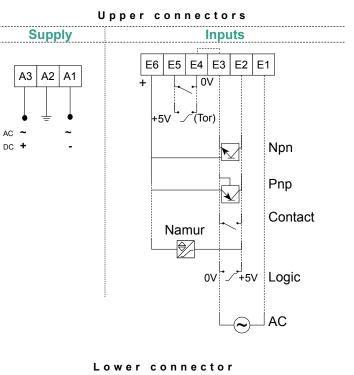
Frequency measure input

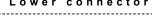
- Type of sensor: npn, pnp, logic, namur, contact, alternating.
- Logic: voltage up to 18V
- Low level ≤ 1.2 V High level \geq 2.1 V
- Npn or contact:
- Input resistance 4.7KΩ to the +18 Vdc Pnp:
- Input resistance 10 KΩ to the GND Namur:
- Supply 8.4 V (10 mA max.)

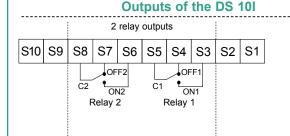
Input resistance: 1 K Ω to the GND Low level $\leq 1.2 \text{ mA}$ High level \geq 2.1 mA

- Alternating: Signal can range from 5 to 500 Veff. Input resistance: 1 MΩ
- Measurable frequency from 0.01 Hz to 130 KHz according to the sensor type.
- Accuracy: 0.025% of the measure
- Scale factor programmable
- Enlarging effect
- Linearisation:
- Linear input or special linearisation in 41 points (in x and in y)
- Cut off programmable
- Filtering:
- Programmable analog filter: allows to suppress any parasite noises.
- Digital filtering, coefficient and action range programmable allows stabilising the display in case of unsteady input.
- Sampling time:
 - 1 measure window + 1 signal period
- Measure window: 100 ms
- Programming of the minimum measurable frequency

Connectings





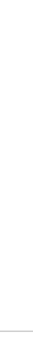


Outputs

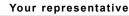
Types of OUTPUTS	Features
2 inverting relays	2 setpoints per relay, configurable over the whole MR. Hysteresis pro- grammable from 0 to 100%. Time delay programmable from 0 to 25 sec. (8A/250VAC on resistive load)

Galvanic partition

2kV-50Hz-1min.between supply, input, relay outputs



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