



## CFE

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CFE, Transducer Hz

Code: M25511.

- > Output type: 2
- > Analog output: 4...20mA
- > System: Network voltage: 50 ... 600 Vac
- > Measure: 45 ..... 55 Hz

## Description

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The **CFE** and **CFE-AP** transducers, convert input frequency to D.C process indicator signal.

The analog output is directly proportional to the input frequency.



## CFE

Narrow section AC frequency transducer

Code: M25511.

### Specifications

#### AC power supply, insulation

Pulse test (kV)	4 kV (1,2/50 $\mu$ s)
Test voltage (kV)	3 kV RMS 50 Hz 1min

#### AC power supply

Consumption	2,5 VA
Frequency	40...90 Hz
Nominal voltage	115/230 Vca (-10...+10 %)

#### DC power supply, insulation

Pulse test (kV)	3 kV (1,2/50 $\mu$ s)
Test voltage (kV)	2 kV RMS 50Hz 1 min

#### DC power supply

Consumption	2,5 VA
Nominal voltage	9-18 / 18-36 Vdc 36-72 / 90-140 Vdc

#### Mechanical characteristics

Size (mm) width x height x depth	20 x 70 x 110 (mm)
Weight (kg)	0,062

#### Environmental characteristics

Protection class	IP 20 (Terminals) IP 40 (case)
Storage temperature	-40...+70 °C
Working temperature	-10...+60 °C

#### Voltage measurement circuit

Consumption	0,2 VA
Voltage measuring range	50...660 V
Maximum permanent measurement voltage	1000 V

#### Standards

Electrical safety, Maximum height (m)	2000
Standards	IEC 529, IEC 688, IEC 801, EN 50081-1, EN 50082-1, IEC 1010

#### Analogue inputs

Load impedance in current	< 500 $\Omega$
Ripple (effective RMS value)	< 1 %
Load impedance in voltage	> 500 $\Omega$



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Narrow section AC frequency transducer

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Response time < 300 ms (0...99 % Vn)

### Analogue outputs

Displaced output 0,2...2 V / 2...10 V / 4...20 mA

### Measurement accuracy

Phase current measurement 0,5 % FS

### CFE

Narrow section AC frequency transducer

CODE	TYPE	Output type	Analog output	System	Measure
<b>Frequency transducers</b>					
M25511.	CFE	2	4...20mA	Network voltage	45 ..... 55 Hz
M25521.	CFE-AP	1	0...20mA	Selecting Network voltage	45 ..... 55 Hz

Specify ACCORDING TO THE CODE TABLE: 1. Code / 2. Input range / 3. Output range / 4. Auxiliary power supply / 5. Specify the network voltage for CFE-AP. xxx-AP types external auxiliary supply not required. 4...20 mA output not possible.

For other values, see coding table on following pages



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## Dimensions



## Connections

