CFM-4 overview

FORCE MEASURING TRANSDUCER

Special Features

- For ARTIS piezo electric force sensors with integrated load amplifier
- Suitable for recording 3 sensor signals (with CTM)
- Recording includes time and axis direction

The CFM-4 force measuring transducer may be operated with the CTM Tool and Process Monitoring System and as a stand-alone device. In stand-alone mode, monitoring is set directly via the graphics-capable display and three membrane keys.

Application example:
**Force Measuring Transducer**

**CFM-4**

2 mounting holes Ø 4,5 mm

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**Dimensions**
CFM-4 O830Z310701

- Weight: 380 g
- Material: Makrokon
- Degree of protection: IP20
- Contacting: Screw terminals
- Operating temperature: 0 – 50 °C
- Relative humidity: 5 – 85 % without condensation

**Voltage supply**
- 24 V DC (18 – 36 V), stabilized, max. 5 % ripple

**Nominal current consumption**
- max. 250 mA

**Programmable analog gain**
each axis adjustable in 12 steps: 1, 2, 4, 8, 10, 20, 40, 80, 100, 200, 400, 800

**Interface**
ARTIS sensor bus ASB (RS485)

**Measuring inputs**
3 x ±10 V
Also refer to interface of the ARTIS force sensor, e.g. RS-Mxx, AKS-x.

**Frequency range**
0 – 1000 Hz

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**Control inputs**

- Tool Change: 24 V DC
- Operate: 24 V DC
- Rapid Feed: 24 V DC
- Reset: 24 V DC
- low 0 – 5 V DC, high 14 – 28 V DC

**Switching outputs**

- Coll. 1 (Out1): Collision alarm, open Coll-output, 18 – 36 V, up to max. 150 mW
- Coll. 2 (Out2): Collision alarm/signal for material contact, open Coll.-output, 18 – 36 V, up to max. 150 mW

**Operation within CTM system**
Via operation panel of the NC control using the ARTIS CMT menu

**as stand-alone device**
Using 3 membrane keys and the illuminated, graphics capable LCD display.
Analog outputs 0 to 10 V V for X, Y, Z and sum signal (X+Y+Z) e.g. applicable for PC measuring cards and other systems

**Conformity**
CE

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For a full list of address locations, please consult the Marposs official website

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