



CFW-XX PIEZOELECTRIC FORCE MEASURING SENSOR

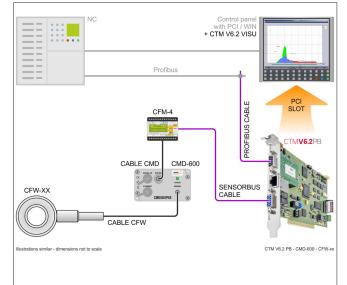
Properties

- · High sensitivity to detect smallest process force variations
- · Suitable for rough environmental conditions
- · Compact design
- · Typical applications: hard turning and lathe finishing

The force measuring sensor is available in different sizes and – using the respective measuring transducer – suits all ARTIS monitoring units.

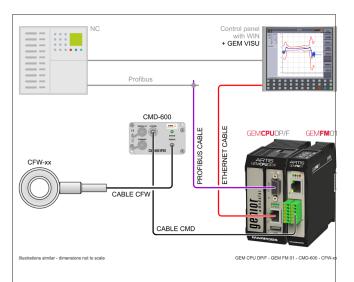


Illustration similar



Application example

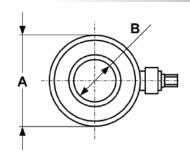
CFW-xx with CMD-600 Charge Amplifier, CFM-4 Force Measuring Transducer and CTM V6.2 PB Tool and Process Monitoring System.

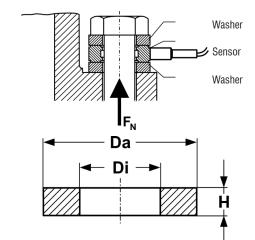


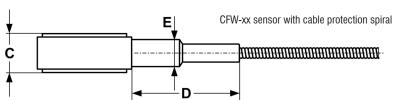
Application example

CFW-xx with CMD-600 Charge Amplifier, GEM**FM**01 Force Measuring Transducer and GENIOR MODULAR Tool and Process Monitoring System.









	CFW-20* 03PZ0211003		CFW-50 03PZ0211005	CFW-100 03PZ0211006	CFW-140 03PZ0211023	Accessories
NOM. FORCE	20 kN		50 kN	100 kN	140 kN	Cable CFW, 3 m
MAX. STRENGHT	120 % of nominal force					06739797057
DIMENSIONS A	14.5	* The type CFW-20 is only available without plug and does not have the corres- ponding thread	22.8	28.6	34.5	Connection cable between CMD-600 and CFW sensor, length 3 m.
В	6.5		10.5	13	17	
С	8		10.3	11.3	12	
D	_		36	36	36	CMD-600 0830Z712018
E	_		9	9	9	
Da _{-0.1}	17		24	26.5	34	Digital charge amplifier, measuring range 50 – 600.00 pC.
Di+0.1	6.5		10	12.7	16	
Н	3		4	5	6	
FOR SCREWS	M6		M10	M12	M16	Cable CMD, 20 m 06739797059
WEIGHT	0.009 kg		0.043 kg	0.070 kg	0.103 kg	
REC. PRE-LOAD	7 kN		18 kN	30 kN	45 kN	Connection cable between CDM-600
SENSITIVITY	-4 pC/N		-4.3 pC/N	-4.3 pC/N	-4.3 pC/N	
STORAGE TEMPERATURE	-40 °C to +120 °C					and CFM-4
OPERATING TEMPERATURE	-40 °C to +120 °C					Set of washers M 6 04390140001
DEGREE OF PROTECTION	IP65					
INSULATION IMPEDANCE	>10 MΩ					
NOM. MEASURING PATH	2 µm		3.5 μm	5.8 μm	7.5 µm	Set of washers M10
BASIC RESONANCE FREQUENCY	60 kHz		55 kHz	45 kHz	35 kHz	04390140002
CROSSTALK						
from F _{XY} to _{FZ}	0.03 N/N		0.03 N/N	0.004 N/N	0.03 N/N	Set of washers M12 04390140003
from M _{XY} to M _Z	0.002 N/Nm		0.002 N/Nm	0.002 N/Nm	0.002 N/Nm	
REL. LINEARITY ERROR	2 % of full scale					
MATERIAL (SENSOR & WASHER)	Stainless steel					Set of washers M16 04390140005
SCOPE OF SUPPLY	Sensor, two washers					
CONFORMITY	CE, UKCA					



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

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