



Position Transducers Linotast, induktive

Series F 200 g



Special features

- very good linearity, Standard ±0,1 ... ±0,3 %
- with connetor, protection class IP 67 (only with EEM 33-70)
- reverse voltage protection
- bult-in hybrid electronic circuitry
- DC power supply, DC out-
- almost infinite resolution
- good temperature constancy

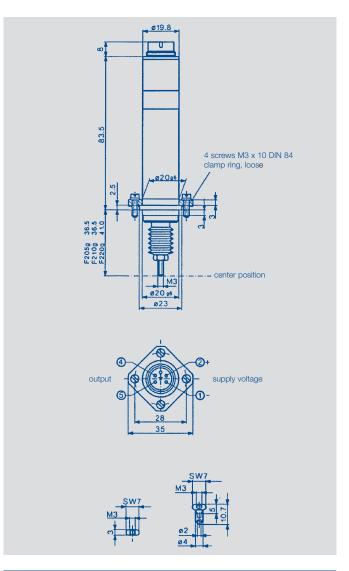
The inductive position transducer series F 200 converts small rectilinear displacements into electrical analogue signals by means of a differential transformer with a movable core.

The core is mounted on a pushrod wich may be pressed by a built-in spring against the object to be measured, or rigidly connected to the object.

The transducer is supplied with a DC voltage. A built-in oscillator provides an AC voltage to supply the diffential transfomer.

The secondary voltages of the transformer are rectified by a demodulator which is also built-in. The oscillator and the demodulator are hybrid circuits.

The DC output voltage is strictly proportional to the displacement of the core and, therefore, to the displacement to be measured. The electrical zero is in the middle of the useful stroke of the pushrod.



Description	
Housing	black anodized aluminium
Actuating rod	antimagnetic stainless steel; a pre-stressed helical spring presses the pushrod outwords against the stop
Bearing	maintenance-free plasstic sleeves, pushrod passage dust-proofed by bellows
Fixing	centering pilot, collar and clamp flange
Electrical connections	5-pin connector (see accessoreis) protection class depending on connector type
Electronic	potted hybrid circuits

Novotechnik Messwertaufnehmer OHG

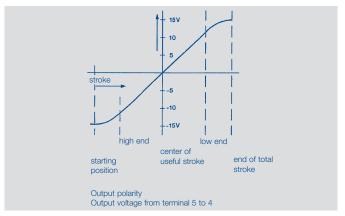
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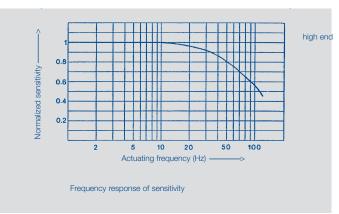
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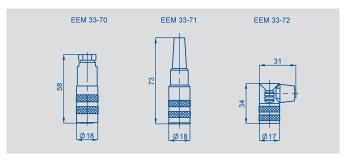
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Type	F205a	F205.1g	F210a	F210.1a	F220a	
Mechanical Data	1 200g	1200.19	12109	1210.19	TLLOG	
Operating force	< 2					N
Mass of actuating rod	6	6	6	6	7	g
Total weight	80					g
Dimensions	see dra	wing				
Electrical Data						
Independent linearity	0,2	0,1	0,2	0,1	0,3	±%
Defined electrical range	5 (±2,5)	5 (±2,5)	10 (±5)	10 (±5)	20 (±10)	mm mm
Mechanical range	8	8	12	12	22	mm
Sensitivity approx. (supply 24 VDC)	4,5	4,5	2,2	2,2	1	V/mm
Power supply	24 ±20 % VDC					VDC
Reverse voltage protection	parallel-connected diode; max. permitted curent with inverse voltage; 1 A (or 50 A for 8 ms)					
Current consumption	approx. 50					mA
Output voltage	±10, floating DC voltage					VDC
Residual ripple	1 % of DC output voltage, or 10 mV pk-pk, whichever is greater					
Internal resistance (dynamic) (Output circuit is short-circuit proof)	4					kΩ
Zero drift for variation of supply voltage	< 1 µm.	/10 %				
Thermal zero shift	< 1 µm.	/10 K				
Thermal sensitivity shift	25 typ.					ppm/K
Sensitivity change	proportional to supply voltage					
Maximum permitted voltage between output terminals and housing plus between input and output	100					VDC

Environmental Data					
Temperature	-30 +70	°C			
Acceleration	10 g in all directions				
Humidity	Transducer is insensitive against humidity, water wetting, grinding oil and coolant				
Order designations					
Туре	ArtNo.				
F 205 g	005303				
F 205.1 g	005304				
F 210 g	005323				
F 210.1 g	005324				
F 220 g	005325				







Included in delivery

Screw-on probe with hardalloy ball-point and stainless steel locknut. Allows frictionlocked connection between gauging pin and measuring object.

Connecting ring with unloseable screws.

Recommended accessories

Connector EEM 30-70 protection class IP 67, Art.Nr. 005611, Connector EEM 33-71 protection class IP 40 Art.Nr. 005612, Angled connector EEM 33-72 protection class IP 40 Art.Nr. 005613