

Robust Linear Absolute encoder

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- High accuracy
- Inductive scanning
- Shock and vibration protected
- IP 67 encapsulation class

EnDat 2.2

Mechanical data

Operating temperature	-10 °C...+80 °C
Ingress protection class [IEC 60529]	IP 67
Vibration [IEC 60068-2-64]	100 m/s ² , 55-2000 Hz
Shock [IEC 60068-2-27]	2000 m/s ² , 6ms
Cover material	Anodized aluminium
Weight	7.5 kg
Bellow material	FPM / Viton
Piston material	Stainless steel
Temperature Coefficient	< 11 ppm/K

Encoder configuration

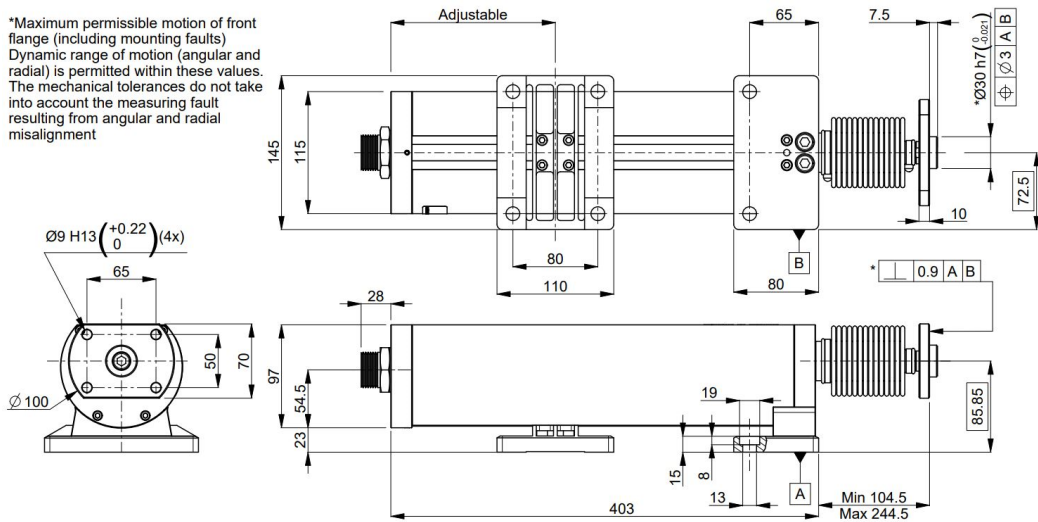
Type	RLA
Model	4200
Power supply	3.6-14 Vdc
Output interface	EnDat 2.2 without incremental 1 Vpp signals
Connection type	M12 connector 8-pin
Measuring length	140 mm

Electrical data

Current consumption (No load)	300mA at 5Vdc
Number of clock pulses for position value	28
Accuracy within the grating period	± 0.50 µm
Measuring step	100 nm
Clock frequency	16 MHz
Linearity	± 5 µm/m

Dimensions

*Maximum permissible motion of front flange (including mounting faults)
Dynamic range of motion (angular and radial) is permitted within these values.
The mechanical tolerances do not take into account the measuring fault resulting from angular and radial misalignment



Pin Configuration

Function	Pin
0 Volt Sense	1
+E Volt Sense	2
Data+	3
Data-	4
0 Volt	5
Clock-	6
Clock+	7
+E Volt	8



Order information

Part number	1221159-01
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