

Data Sheet



Contactless rotative sensor HMS 220

Features

- high life cycles
- excellent linearity
- robust design

Applications

- Joysticks
- valve control
- steering angle fork lift
- servosystems

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Electrical Characteristics

Measuring range	0°...360°	(1)
Resolution	12 bit	(1)
Independent Linearity	± 1%	
Output Signal	10% ... 90% von Us	
Min. ohm load - output	10kOhm	
Max. capacitive output load	10 nF	(1)
Sampling rate slow mode	800 µs	(1)
Sampling rate fast mode	300 µs	
Supply voltage	5Vdc ±10%	
Current draw without slow mode	10mA typ.	
Current draw without fast mode	16mA typ.	
Inverse-polarity protection	yes	
Electrical connection	strand 3x0,25mm ²	

Mechanical Characteristics

Life time (electr.)	10 years	
Life time (mechan.)	200 Mio. cycles	
Mechanical cycle	no mechanical end stop	(2)
Housing	Aluminium anodised	(1)
shaft	Inox	(1)
bearing	Double ball bearing	(1)

Environmental Characteristics

Operating temperature	-20°C ... +85°C	
Storage temperature	-40°C...+125°C	
Climatic class	25/085/56	
Vibration	10g	
Shock	30g	

Options

Electrical angle	0°...360° programmable	
Output signal	PWM od. SPI	
Connection	gold plated	
Redundancy	yes	
Slow mode/fast mode	selectable	
Housing dimensions	with thread or servo flange see drawing	
Length of strand	145mm ... 800mm	
Operating temperature	-40°C...+125°C	

Specifications subject to change without notice

(1) Other values on request

(2) Stops on request



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Drawing

