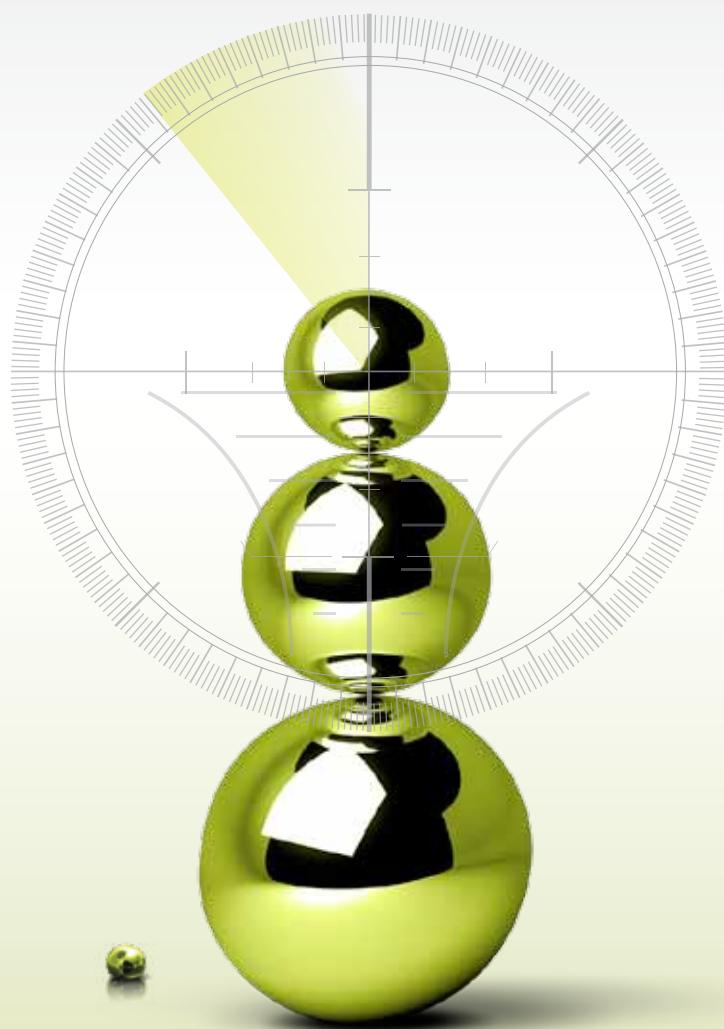




Netzer
Precision Motion Sensors Ltd.



Moving Precisely
With You

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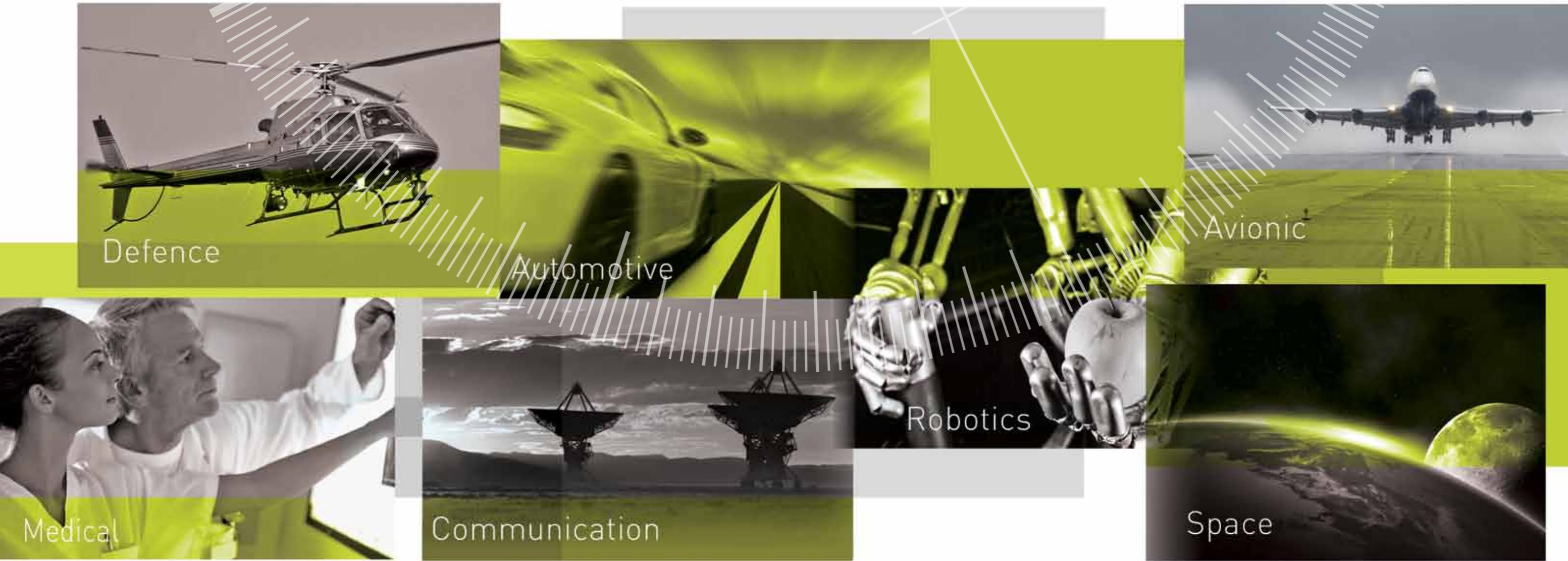


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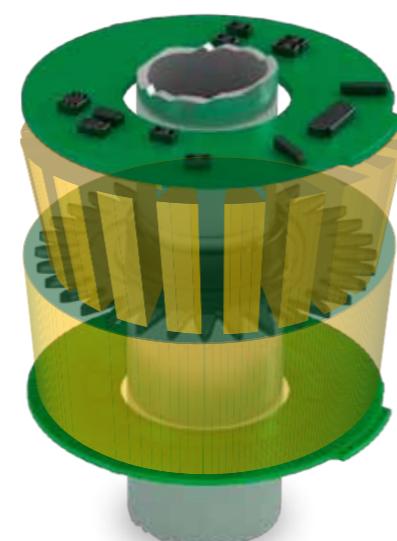
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Encoder Technology for 21st Century

Rotary and linear, absolute and incremental, analog and digital, standard and customized, Netzer's worldwide patented ,rugged ,high performance ,Electric Encoder™ technology suits applications ranging from space and avionics, through defense and instrumentation to automotive.



Electric Rotary Encoders™

High precision absolute position.



Custom Encoders

Absolute position ultra low profile and mechanical flexibility.



The Electric Encoder™ Advantages

Mechanical

- Low Profile
- Hollow Floating Shaft
- Mounting Tolerant
- Low Weight and Inertia

Functional

- Absolute Position
- High Resolution
- High Accuracy
- Low Power Consumption
- Redundancy Options

Reliability

- Extreme Temperatures
- Shock and Vibration Tolerance
- High MTBF
- Tolerant to EMI / RFI / Magnetic Fields

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Absolute position extreme condition

ROTARY - Polymer / Metal housing



	Contactless floating rotor									
Polymer housing	DS-25	DS-37	DS-58[20]	DS-70		DS-90	DS-130	DS-247		
Metal housing	DM-25	DM-37	DM-58[20]	DM-70		DM-90	DM-130			
Functional										
Electrical Cycles/Revolution – Fine Mode	16	16	32	64		64	64	128		
Angular resolution (using, 12bit A/D converter)	17 bits	17 bits	18 bits	19 bits		19 bits	19 bits	20 bits		
Accuracy	< ±15mdeg°	< ±15mdeg°	< ±10mdeg°	< ±10mdeg°		< ±10mdeg°	< ±10mdeg°	< ±6mdeg°		
Maximum usable speed	3,000 rpm		1,500 rpm		750 rpm					
Measurement range	Full rotation - 360°									
Feedback	absolute position - analog Sine/Cosine 1Vp-p, digital - SSi Digital - incremental AqB+Index				absolute position - analog Sine/Cosine 1Vp-p , digital - SSi Digital - incremental AqB+Index					
Mechanical										
Mounting eccentricity - operational	±0.2 mm		±0.3 mm		±0.3 mm		±0.2 mm			
Rotor axial motion - operational	±0.2 mm		±0.3 mm		±0.3 mm		±0.1 mm			
Rotor inertia [gr/mm²]	11	76	800	5200		5200	2400			
Total weight [gr]	4 gr	10 gr	36 gr	50 gr		50 gr	65 gr	665 gr		
Outer diameter / Inner diameter / Profile [mm]	25 / 6 / 7	37 / 10 / 8	58 / 20 / 10	70 / 30 / 10		90 / 50 / 10	130 / 90 / 10	247 / 170 / 10		
Construction material (stator / rotor)	Ultem or Aluminum / Ultem™						Aluminum			
Protection	IP40									

Electrical - General	
Supply voltage	+4.6 to +5.5 v
Supply current	< 10 mA
Maximum load current.	analog - 10 mA , digital - 160mA
Output resistance	< 1 Ω
Environment - extreme conditions	
EMC	IEC 6100-6-2, IEC 6100-6-4
Operating temperature range	-55°C to +125°C
Relative Humidity	< 98% non condensate
Shock endurance	IEC 60068-2-27; 100 gm for 11 ms
Vibration endurance	IEC 60068-2-6; 20 gm for 10 – 2000 Hz
Available output formats - General	
Type	Digital
	Incremental - AqB + index
	Absolute position - SSi
Analog	Sine/Cosine (electrical angle)

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Absolute position extreme condition

ROTARY - Metal housing

	ROTARY		
	Metal sealed housing	Metal with shaft clamp	2 plates Metal case



	Digital - absolute position					
	DL-25	DL-60	DK-90	DK-160	DF-60	DF-90
Functional						
Electrical Cycles/Revolution Fine Mode	16	32	32	32	32	32
Angular resolution	17 bits	18 bits	19 bits	18bits	18 bits	
Accuracy	< ±15mdeg°	< ±10mdeg°	< ±10mdeg°	< ±20mdeg°	< ±15mdeg°	
Maximum usable speed	3,000 rpm	1,500 rpm	1,500 rpm	1,500 rpm	1,500 rpm	
Measurement range	full rotation - 360° singel turn	full rotation - 360° singel turn	full rotation - 360° single turn			
Feedback	absolute position - digital ssi	absolute position - digital ssi	absolute position - digital ssi			
Mechanical						
Total weight	40 gr	60 gr	120 gr	240 gr	60 gr	120 gr
Outer diameter	25	60	90	160	60	90
Sold & Serviced By:	Aluminum					
Protection	IP65		IP40		IP40	

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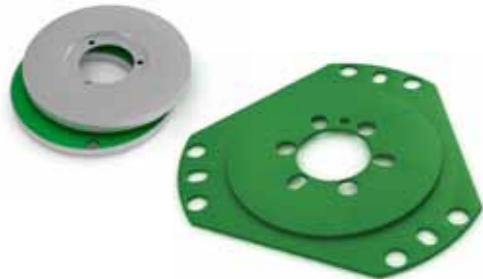
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CUSTOM - VLP - 2 plates

Electrical Rotary Encoders

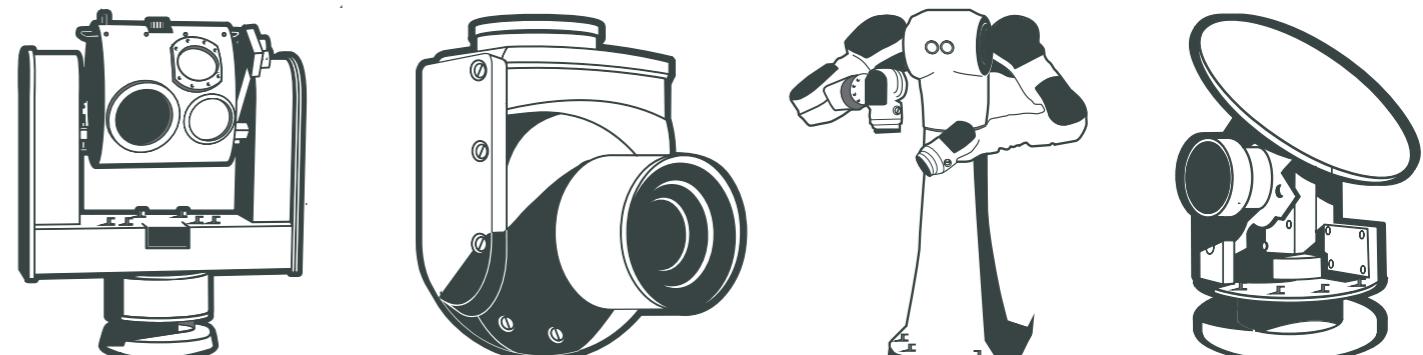
The Netzer Electric Encoder™ flexibility lends itself to easy customization offering unmatched design freedom, performance, and cost effectiveness. The Netzer Electric Encoder can be customized in terms of mechanical dimensions, resolution, accuracy, packaging, power consumption, and adaptation to various environments.



Absolute position industrial automation



Contactless floating rotor						
Polymer housing	DR-25	DR-37	DR-58	DR-70	DR-90	DR-130
Functional						
Angular resolution						14 bit
Accuracy						< ±35mdeg°
Maximum usable speed						3,000 RPM
Measurement range						Full rotation - 360°
Feedback						Absolute position - digital - SSI / Digital - incremental
Environment conditions						-20 + 65 Deg C



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