YOUR EXPERT SOURCE FOR ENCODERS
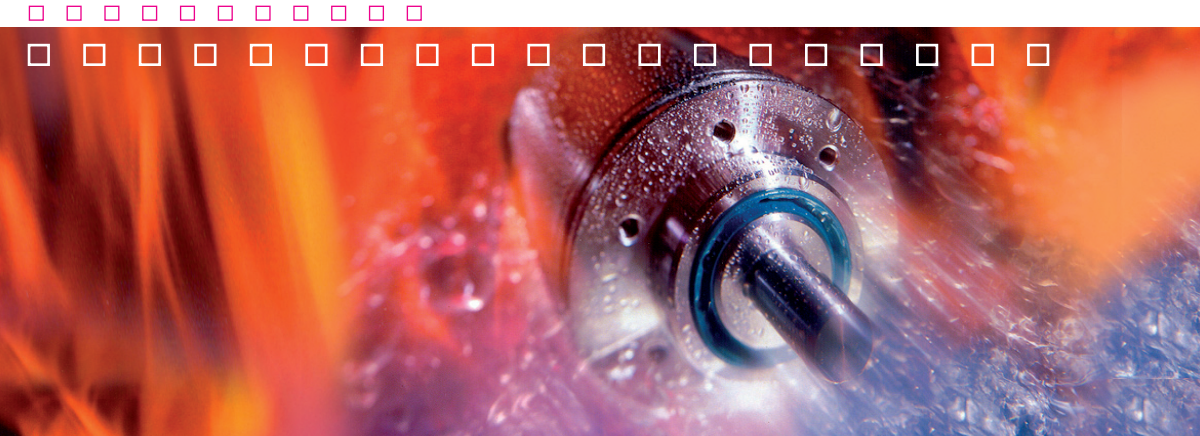
DESIGN

PRODUCTION

EXPEDITED SERVICE

CUSTOMER SUPPORT

GES *group*

SIX FUNDAMENTAL REASONS
WHY WE SHOULD BE YOUR FIRST CHOICE

!: 5 - 10 Business day turn around from order to delivery !

!: All encoder models backed by a 5 YEAR WARRANTY !

!: Unbreakable code discs produced in house allow for flexible production !

!: Continuous product development using newest technological advancements!

!: Rapid delivery available/No extra fees!

!: Niche Market Solutions!

Our purpose is to provide encoder solutions tailored to your exact requirements. We are committed to the success of all our customers and partners.

With our global presence and company network we service world wide markets. Our Know-how, innovation & commitment are the reasons for our success.
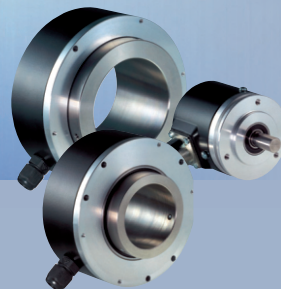

Spaichingen, Germany
Manufacturing Location

St. Catharines, Canada
Manufacturing Location

SOLUTIONS

Global Encoder Solutions - The name says it all.

All members of the GES*group* work together towards a common goal.

Canada

Industrial Encoder Corporation

Industrial Encoder Corporation
22 Commerce Place
St. Catharines, Ontario L2S 0B3
Tel. +1 905 984 3256

Fax +1 905 984 5017
Toll Free 888 277 6205
www.globalencoder.ca
info@globalencoder.ca

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W+S Meßsysteme

W+S Meßsysteme GmbH
Humboldtstraße 11
78549 Spaichingen

Tel. +49 (0)7424 502740
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France

ISS Industrial Sensors & Solutions

ISS Industrial
Sensors & Solutions S.à.r.l.
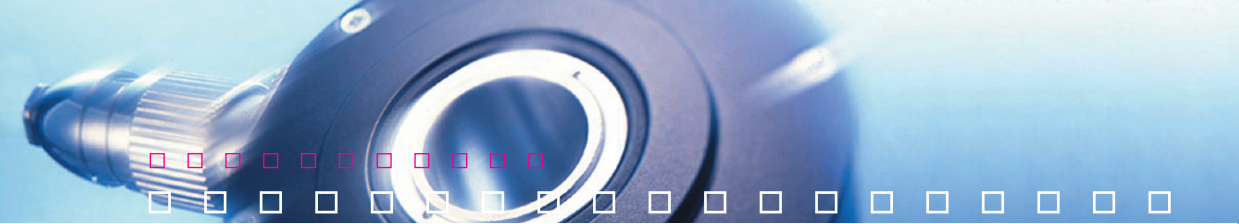1b, rue des Frères Lumière
67201 Strasbourg Eckbolsheim

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Fax +33 (0)388 595 111
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United Kingdom

W+S Measuring Systems

W+S Measuring Systems Ltd.
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DEVELOPMENT AND PRODUCTION
WITH FLEXIBLE MANUFACTURING PROCESSES

The GESgroup has many years of experience in the design, development and production of optical encoders. Since we specialize in the development and manufacturing of rotary encoders, we can provide our customers with solutions for a wide range of applications to meet their exact requirements while maintaining the highest standards of quality. We achieve this through our flexible development concept and well trained professionals that understand your needs and application demands.

The GES*group* is committed to the success of our partners, we achieve this through our products, technologies and employees.
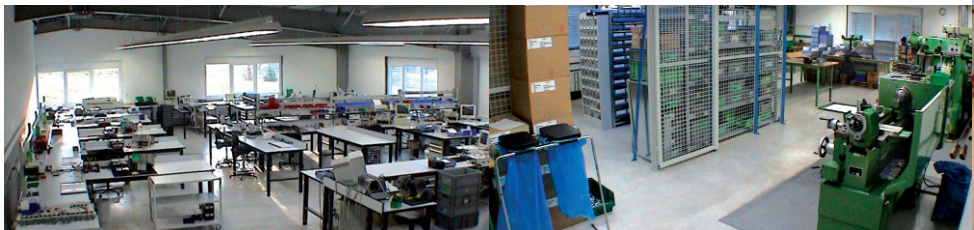
Our product range includes Incremental, Absolute Single-Turn and Absolute Multi-Turn encoders. In addition to our standard product range we manufacture Atex Certified Explosion proof encoders, Wash-Down rated encoders and special encoders of all kinds. Most of our products are produced using our own in house made custom plastic code disc, which is why our encoders are extremely shock resistant and resistant to vibration

We are continuously working on technologies and processes to improve our products in cooperation with our customers.

Incremental Encoder

Absolute Single-Turn Encoder

Absolute Multi-Turn Encoder

Motor Commutation Encoder

Atex - EX Incremental Encoder
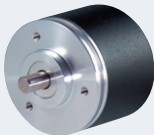
Atex - EX Absolute Encoder

Incremental Wash-Down Encoder
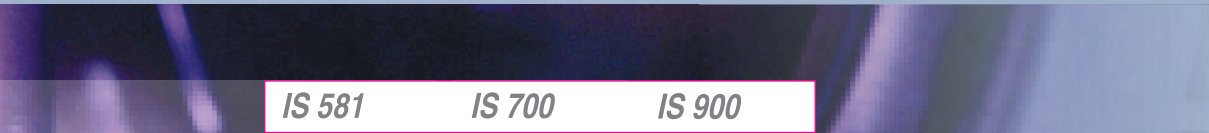
Absolute Wash-Down Encoder

Magnetic Absolute Encoder
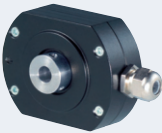
Custom Designed Encoder

INCREMENTAL SOLID SHAFT ENCODER

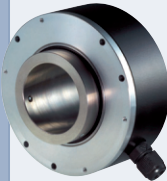|	IS 240	IS 280	IS 410	IS 580
Housing Size	24 mm	28 mm	41 mm	58 mm
Available Shaft Ø or Hollow Shaft Ø	4 mm 6 mm	4 mm 6 mm	6 mm	6 mm 10 mm
Mechanical Options	—	—	Stainless Steel	Stainless Steel
Connection Exit Location	axial radial	axial radial	axial radial	axial radial
Signals	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z
Operating Voltage Output Circuit	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull
Resolution	1-1000	1-1250	1-10000	1-25000

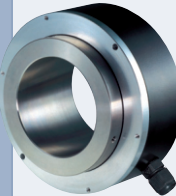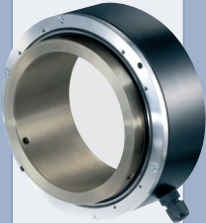|	IS 581	IS 700	IS 900
Housing Size	58 mm	70 mm	90 mm
Available Shaft Ø or Hollow Shaft Ø	6 mm 8 mm 1/4" 10 mm 3/8"	10 mm 3/8" 12 mm 1/2"	10 mm 12 mm
Mechanical Options	Stainless Steel	Stainless Steel	Stainless Steel
Connection Exit Location	axial radial	axial radial	axial radial
Signals	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z
Operating Voltage Output Circuit	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull
Resolution	1-25000	1-25000	1-25000

INCREMENTAL HOLLOW SHAFT ENCODERS

	IH 490	IH 510	IH 581	IH 740
Housing Size	49 mm	51 mm	58 mm	74 mm
Available Shaft Ø or Hollow Shaft Ø	6 mm 8 mm 1/4"	6 mm 1/4"	6 mm 10 mm 3/8" 12 mm 1/2"	6 mm 10 mm 1/4" 12 mm 14 mm 18" 16 mm 18 mm 12"
Mechanical Options	Stainless Steel	—	—	Stainless Steel
Connection Exit Location	radial	radial	radial	radial
Signals	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z
Operating Voltage Output Circuit	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull
Resolution	1-3600	1-1250	1-10000	1-25000

	IH 950	IH 951	IH 103	IH 120	IH 150
Housing Size	95 mm	95 mm	103 mm	120 mm	150 mm
Available Shaft Ø or Hollow Shaft Ø	14 mm-30 mm	14 mm-30 mm	30 mm-40 mm	40 mm-65 mm	65-100 mm
Mechanical Options	Stainless Steel	Stainless Steel	—	—	—
Connection Exit Location	radial	radial	radial	radial	radial
Signals	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z	A+B+Z A+B+Z+/A+/B+/Z
Operating Voltage Output Circuit	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull
Resolution	1-25000	1-25000	1-50000	1-50000	1-50000

ABSOLUTE SINGLE-TURN ENCODERS

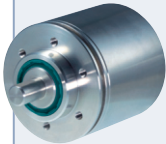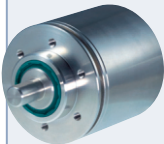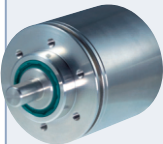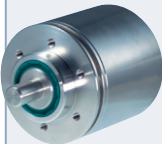|	AS 580	AS 700	AS 900	AH 740	AH 950
Housing Size	58 mm	70 mm	90 mm	74 mm	95 mm
Available Shaft Ø or Hollow Shaft Ø	4 mm 1/4" 6 mm 3/8"	10 mm 12 mm 1/2"	10 mm 12 mm	6 mm 1/4" 10 mm 3/8" 12 mm 1/2"	15 mm 5/8" 25 mm 1.0"
Mechanical Options	Stainless Steel	Stainless Steel	—	Stainless Steel	Stainless Steel
Connection Exit Location	axial radial	axial radial	axial radial	radial	radial
Signals	Binary Code-Parallel Gray Code-Parallel	Binary Code-Parallel Gray Code-Parallel	Binary Code-Parallel Gray Code-Parallel	Binary Code-Parallel Gray Code-Parallel	Binary Code-Parallel Gray Code-Parallel
Operating Voltage Output Circuit	8-30 VDC Push Pull	8-30 VDC Push Pull	8-30 VDC Push Pull	8-30 VDC Push Pull	8-30 VDC Push Pull
Resolution	Up to 13 Bits	Up to 13 Bits	Up to 13 Bits	Up to 13 Bits	Up to 13 Bits
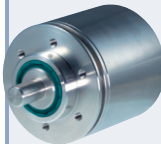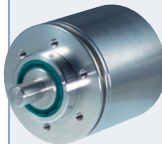
ABSOLUTE MULTI-TURN

SPECIAL FUNCTION

	MS 360	MS 581	MH 360		XS 410
Housing Size	36.5 mm	58 mm	36.5 mm		41 mm
Available Shaft Ø or Hollow Shaft Ø	6 mm 1/4"	6 mm 8 mm 1/4" 10 mm 3/8"	6 mm 1/4"		6 mm 1/4"
Mechanical Options	—	—	—		Stainless Steel
Connection Exit Location	radial	radial axial	radial		axial
Signals	SSI	SSI	SSI		A+PL+PR+DR A+B+Z+PL+PR+ DR+X2+X4
Operating Voltage Output Circuit	RS 422	RS 422	RS 422		8 – 30 V DC Push Pull
Resolution	28 Bits	13 x 12 Bits	28 Bits		Max. 1024x4

EXPLOSION PROOF AND WASH-DOWN ENCODERS

	IX 700	AX 700	MX 700	IP 700	AP 700	MP 700
Housing Size	70 mm	70 mm	70 mm	70 mm	70 mm	70 mm
Available Shaft Ø or Hollow Shaft Ø	10 mm 12 mm	10 mm 12 mm	10 mm 12 mm	10 mm 12 mm	10 mm 12 mm	10 mm 12 mm
Mechanical Options	—	—	—	—	—	—
Connection Exit Location	axial	axial	axial	axial	axial	axial
Signals	A+B+Z A+B+Z+/A+/B+/Z	Binary Code-Parallel Gray Code-Parallel	SSI	A+B+Z A+B+Z+/A+/B+/Z	Binary Code-Parallel Gray Code-Parallel	SSI
Operating Voltage Output Circuit	4,75-30 VDC Push Pull	8-30 VDC Push Pull	RS 422	4,75-30 VDC Push Pull	8-30 VDC Push Pull	RS 422
Resolution	1-50000	Up to 12 Bits	13 x 12 Bits	1-50000	Up to 12 Bits	13 x 12 Bits

STRING ENCODERS

|	DWS150	DWS1210
Measuring Length	Up to 6 Meters	Up to 10 Meters
Linearity	+/-0.05% full scale	+/-0.05% full scale
Velocity	10 meters/second	10 meters/second
Acceleration (max)	5 m/s^2	5 m/s^2
Drum Circumferance	409.6 mm	300 mm
Encoder Feed Optionst	Incremental Encoder Absolute Encoder	Incremental Encoder Absolute Encoder
Linear Resolution	0.05 mm	0.05 mm

TIME PROVEN AND TESTED EXPERIENCE

We work with you to design, develop and manufacture encoders that are specifically tailored to your needs and to your application. In order to provide you with the highest level of performance and reliability we familiarize ourselves with every aspect of your application, taking the necessary time to understand your requirements and to identify potential problems before they happen. When it comes to reliability and product performance we don't leave it to chance.

Automotive

Research and Military

Forestry

Crane Systems

Engineering

Off Shore

Oil and Gas

Personal Transportation

Alternative Energy

INDUSTRIAL SECTORS
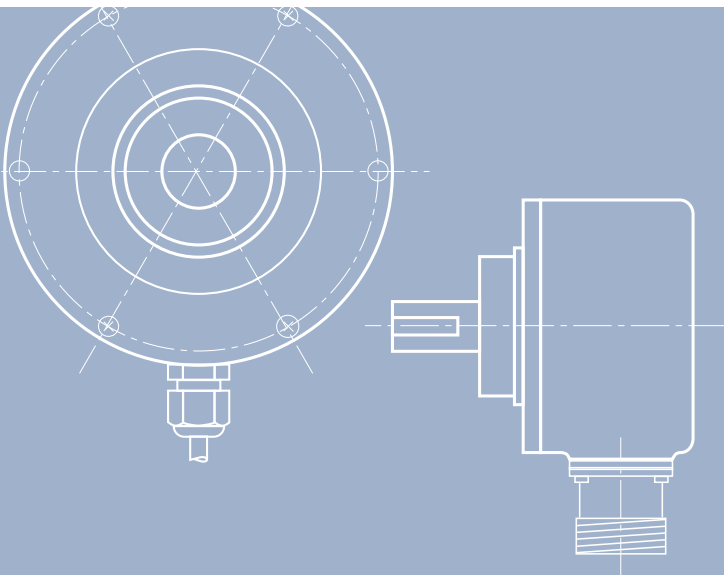
GESgroup

Industrial Encoder Corporation
Member of the **GES**group

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Canada

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