ATI Systems

Committed to Quality

Encoders - Linear Displacement - Position Sensors

MAXIMIZE PLANT AVAILABILITY®

Leaders in Demanding Applications

Complete Quality Solutions for all Major Industries

Inductive Proximity Switches

The proven solution for safe, non-contact detection of metal objects

Baumer
Passion for Sensors

- Switching distance up to 24 mm
- M8 to M30
- Flush and non-flush variants
- Maintenance free and durable
- Versatile use in industrial and factory automation

	Part Number	Article Number	Size	Sensing Range	Sensor Mount	Output Function	Connection Types
	IR12.P04S-F40.PO1Z.7BCV	11725099	M12 x 40mm	4mm	Flush	PNP make function (NO)	Cable, L=2 m
	IR12.P04S-F40.NO1Z.7BCV	11725108	M12 x 40mm	4mm	Flush	NPN make function (NO)	Cable, L=2 m
	IR12.P04S-F50.PO1Z.7BO	11725093	M12 x 50mm	4mm	Flush	PNP make function (NO)	Connector M12 4 pin
	IR12.P04S-F50.NO1Z.7BO	11725118	M12 x 50mm	4mm	Flush	NPN make function (NO)	Connector M12 4 pin
	IR12.P08S-N40.PO1Z.7BCV	11725096	M12 x 40mm	8mm	Non-flush	PNP make function (NO)	Cable, L=2 m
	IR12.P08S-N40.NO1Z.7BCV	11725106	M12 x 40mm	8mm	Non-flush	NPN make function (NO)	Cable, L=2 m
	IR12.P08S-N50.PO1Z.7BO	11725119	M12 x 50mm	8mm	Non-flush	PNP make function (NO)	Connector M12 4 pin
	IR12.P10S.2-N50.NO1Z.7BO	11725082	M12 x 50mm	10mm	Non-flush	NPN make function (NO)	Connector M12 4 pin
	IR18.P08S-F50.PO1Z.7BCV	11726374	M18 x 50 mm	8mm	Flush	PNP make function (NO)	Cable, L=2 m
	IR18.P08S-F50.NO1Z.7BCV	11726376	M18 x 50 mm	8mm	Flush	NPN make function (NO)	Cable, L=2 m
	IR18.P08S-F60.PO1Z.7BO	11725166	M18 x 60mm	8mm	Flush	PNP make function (NO)	Connector M12 4 pin
	IR18.P08S-F60.NO1Z.7BO	11725155	M18 x 60mm	8mm	Flush	NPN make function (NO)	Connector M12 4 pin
	IR18.P15S.2-N50.PO1Z.7BCV	11726388	M18 x 50 mm	15mm	Non-flush	PNP make function (NO)	Cable, L=2 m
	IR18.P15S.2-N50.NO1Z.7BCV	11726386	M18 x 50 mm	15mm	Non-flush	NPN make function (NO)	Cable, L=2 m
	IR18.P15S.2-N60.PO1Z.7BO	11725162	M18 x 60mm	15mm	Non-flush	PNP make function (NO)	Connector M12 4 pin
	IR18.P15S.2-N60.NO1Z.7BO	11725167	M18 x 60mm	15mm	Non-flush	NPN make function (NO)	Connector M12 4 pin
	IR30.P15S-F50.PO1Z.7BCV	11725195	M30 x 50 mm	15mm	Flush	PNP make function (NO)	Cable, L=2 m
	IR30.P15S-F50.NO1Z.7BCV	11725193	M30 x 50 mm	15mm	Flush	NPN make function (NO)	Cable, L=2 m
	IR30.P15S-F60.PO1Z.7BO	11725190	M30 x 60mm	15mm	Flush	PNP make function (NO)	Connector M12 4 pin
	IR30.P15S-F60.NO1Z.7BO	11725202	M30 x 60mm	15mm	Flush	NPN make function (NO)	Connector M12 4 pin
	IR30.P24S.2-N50.PV1Z.7BCV	11726393	M30 x 50 mm	24mm	Non-flush	PNP complimentary	Cable, L=2 m
	IR30.P24S.2-N50.NV1Z.7BCV	11726392	M30 x 50 mm	24mm	Non-flush	NPN complimentary	Cable, L=2 m
	IR30.P24S.2-N60.PV1Z.7BO	11725189	M30 x 60mm	24mm	Non-flush	PNP complimentary)	Connector M12 5 pin
	IR30.P24S.2-N60.NV1Z.7BO	11725191	M30 x 60mm	24mm	Non-flush	NPN complimentary	Connector M12 5 pin

*The **Normand Power Supply** is recommended for all ATI sensors*

Photoelectric Sensors 0330

Baumer
Passion for Sensors

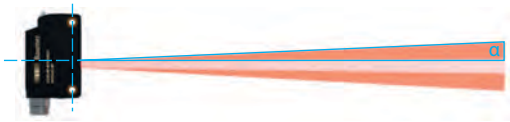
ATI

The economical solution from planning to installation

3 Functional principles
1 Light source
2 Beam characteristics
3 Output circuits
2 Connection possibilities
2 Mounting possibilities

Plug & play integration

Faster design-in and production launch



qTarget – fast installation without fine-tuning thanks to optical axis aligned by design.

Extended 3D CAD data provides an integrated beam path with visualized blind, detection and reflection range. This eliminates sources of error and reduces the engineering effort.

Performance in compact design

No compromising in tight installations

PinPoint LED with point or line beam and extended detection range in compact design.

Getting more done

Ambient light immunity for highest plant efficiency

PinPoint LED with point or line beam and extended detection range in compact design.

O330 with PinPoint LED

Portfolio at a glance

Diffuse sensors with background suppression O330.GP with qTeach	Retro-reflective sensors O330.RP	Through beam sensors O330.EP/TP
		

General data				
Sensing range	20 ... 250 mm	20 ... 350 mm	≤ 5 m	≤ 10 m
Light beam	Line	Point	Point	Point

Electrical data				
Output circuit	PNP / NPN / push-pull		PNP / NPN / push-pull	PNP / NPN / push-pull
Response / Release time	< 2.5 ms	< 1 ms	< 0.5 ms	< 0.8 ms
Switching frequency	200 Hz	500 Hz	1000 Hz	625 Hz

Mechanical data			
Connection	Metal connector M8 or cable 2 m	Metal connector M8 or cable2 m	Metal connector M8 or cable 2 m
Mounting	Sleeve smooth / Threaded sleeve M3	Sleeve smooth / Threaded sleeve M3	Sleeve smooth / Threaded sleeve M3

Ambient conditions			
Operating temperature	-25 ... 55 °C	-25 ... 55 °C	-25 ... 55 °C
Protection class	IP67	IP67	IP67

*The **Normand Power Supply** is recommended for all ATI sensors*

OT Series – ToF Sensors

All-rounders with time-of-flight technology

Baumer
Passion for Sensors

Reliability

- Dependable object detection, even on challenging surfaces such as ultra-black, reflective or glossy materials
- Consistent performance independent of shape and structure

TCO savings

- SmartReflect® – light barrier without reflector
- Saves time and costs during installation and maintenance by omitting the reflector

Best-in-class usability

- 3D CAD data with integrated beam path, for fast and easy design-in
- qTeach® reproducible functionality for a wear-free teach-in procedure, allowing a flexible and accurate adjustment of sensors
- Intuitive Baumer Sensor Suite software for easy parametrization

proTect+® for long-term impermeability

- Our hygienic and washdown sensors are developed and tested to guarantee outstanding impermeability over their entire service life

OT series

Portfolio at a glance

	OT200	OT330	OT300	OT500
General data				
Measuring / Sensing distance	0 ... 2.0 m	0 ... 2.5 m	0.1 ... 1.8 m	0.15 ... 2.5 m
Light source	Infrared laser, laser class 1		Red laser, laser class 1	
Repeatability	1.25 ... 1.5 mm	2.0 ... 1.5 mm	1.4 ... 5.5 mm	1.2 ... 4.3 mm
Linearity error	± 10 mm			
Electrical data				
Response / Release time	High speed mode: 25 ms Standard mode: 50 ms High accuracy mode: 200 ms		High speed mode: < 4 ms Standard mode: < 8 ms Long range mode: < 50 ms	
Output circuit	PNP / NPN / push-pull	PNP / NPN / push-pull analog 0 - 10 VDC	PNP / NPN / push-pull analog 0 - 10 VDC	PNP / NPN / push-pull analog 0 - 10 VDC & 4 - 20 mA
Interface	IO-Link 1.1.4	IO-Link 1.1.4 with dual channel	IO-Link 1.1.3	IO-Link 1.1.3 with dual channel
Mechanical data				
Connection	Cable or M8 flylead	Cable, M8 connector, M8 or M12 flylead	Cable or M8 connector [1]	M12 connector [2]
Mounting	Smooth sleeves or threaded sleeves M3	Smooth sleeves or threaded sleeves M3	Smooth sleeve	Smooth sleeve
Ambient conditions				
Operating temperature	-30 ... +50 °C [3]	-30 ... +55 °C [3]	-10 ... +50 °C	
Protection class	IP67		Plastic housing: IP67 Stainless steel washdown design: IP68/69K & proTect+® Stainless steel hygienic design: IP68/69K & proTect+®	

*The **Normand Power Supply** is recommended for all ATI sensors*

Proximity Switch Accessories

A quick and easy way for optimal functionality

Baumer
Passion for Sensors

ATI

Reflectors

- Different sizes and designs
- Self-adhesive or screw mount
- Stainless steel variants in hygienic design (EHEDG certified)

Sensor mount accessories

- Fastening brackets, clamp, nut for different diameters
- Steel, stainless steel and galvanized steel mounting brackets
- Fasteners for sensors in hygienic design made of V4A stainless steel (EHEDG certification)
- Plastic mounting brackets
- Adjustment mounting
- Sensofix mounting sets

System profile Attachment

- Rods in various lengths with and without jig for mounting plate
- Mounting base for attachment to standard profiles
- Cross connector for better flexibility
- Mounting plates for various sensors

Peripherals

- PNP / NPN converter
- Functional adapter for pulse stretching
- Sound-deflecting angle for ultrasonic sensors
- Sensor test equipment
- Teach-in adapter

Cables and connectors

- The suitable connection for every sensor
- From standard to special cable solutions
- Various applications and certifications, e.g. for drag chains, food, etc
- Great selection of variants to meet
- your requirements

USB-C IO-Link Master

- Fast and easy connection of IO-Link devices to a PC and the Baumer Sensor Suite
- Compact IO-Link master perfectly ideal for testing and selection of IO-Link devices
- Future-oriented data interface and power supply via USB-C

IO-Link Master

- Connection of IO-Link sensors and actuators with the controller
- Data supplier to higher-level IT systems
- Parameterization via user-friendly Baumer Sensor Suite
- Maximum performance for all IO-Link sensors and actuators

Baumer Sensor Suite

- Evaluation, parameterization and use of smart sensor solutions with IO-Link
- Understanding and exploiting the full potential of IO-Link and Baumer CANopen devices
- Visualization of functions from different sensor manufacturers
- Easy-to-use PC software with clear design and helpful additional information

*The **Normand Power Supply** is recommended for all ATI sensors*

Heavy Duty Rotary Encoders

Incremental and Absolute Rotary Measurement

LEINE LINDE

Speed & Position Measurement

- Encoders for extreme reliability
- Heavy duty and Extreme heavy duty ratings
- Available with advanced diagnostics system
- Maximum plant availability
- Absolute and incremental

Encoders with ADS (Advanced Diagnostic System) assures absolutely best encoder availability

ADS Online

Industry 4.0 encoders for predictive maintenance.

ADS Online is a condition monitoring solution, integrated in Leine Linde encoders, which simplifies the step into Industry 4.0.

With the advanced diagnostic system ADS Online, the encoder's functions are expanded to encompass several sensors in one. The multi-sensor constantly reads off the levels for several environmental parameters in its surroundings, including vibration, shaft speed, frequency, temperature, and supply voltage.

Accurate Speed & Position Sensors

LEINE LINDE

ATI

Leine & Linde Incremental Encoders

300 Miniature

The model 300 series consists of robust and extremely reliable miniature encoders, 30 mm in diameter and designed for installation in applications where limited space is at a premium.

500 Robust

"Versatile" and "modular" are catchwords that differentiate the incremental encoders in the model 500 series.

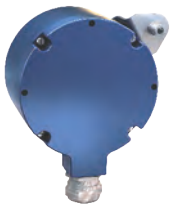
600 Industrial

Fieldbus interfaces based on Ethernet, PROFIBUS or DeviceNet are examples of communication protocols used in automation. These interfaces are available on the 600 series of absolute coded encoders.

700 Compact

The 700 series is a robust encoder with a compact design. With its short length, it is designed for filling the need for heavy duty encoders even in installations where space is limited.

800 Heavy Duty



When the most robust, maintenance-free and cost-effective encoder solution is required, the model 800 series is the first choice of most engineers. The optional ADS (Advanced Diagnostic System) is a built-in system tailored to support condition-based maintenance, guaranteeing the reliability of the application.

900 Premium

Machines are becoming more and more advanced in classic industrial applications. More complex motions need to be absolutely monitored in order to achieve full process control. The 900 series meets these increasing demands.

1000 Extreme

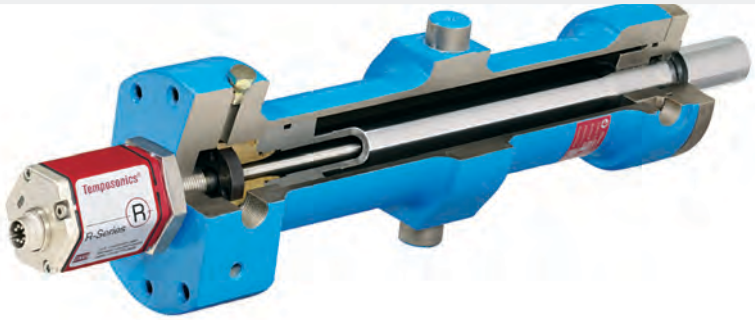
There are many examples of extreme environments within the steel industry in the terms of temperature, mechanical forces, vibrations and shocks. The 1000 series is designed with exceptional durability, suited to an exposed environment. This due to the high encapsulation level which keeps the internal parts protected from dust and liquids.

Temposonics
AN AMPHENOL COMPANY

Linear Transducers

SERIES QUICK GUIDE

	E-Series Compact Solutions	G-Series High Durability	GB-Series Innovative Design	R-Series V The New Generation	R-Series Superior Performance	T-Series Rugged Design
FEATURES						
Velocity measurement				●	●	
Multi-position measurement	●	●		●	●	●
Programmable sensor parameters		●	●	●	●	●
Diagnostic LEDs		●		●	●	
Redundant version		●			●	
OUTPUT						
Analog – Current	●	●	●	●	●	●
Analog – Voltage	●	●	●	●	●	
Start/Stop	●	●				
PWM		●				
SSI	●		●	●	●	●
Profibus					●	
CANbus	●				●	●
DeviceNet					●	
EtherCAT®				●	●	
EtherNet/IP™				●	●	
POWERLINK				●	●	
PROFINET				●		
IO-Link	●					
MINIMUM STROKE LENGTH						
25 mm (1 in.)			●	●	●	●
50 mm (2 in.)	●	●				
MAXIMUM STROKE LENGTH						
1500 mm (60 in.)	ER					
2540 mm (100 in.)	EH, EE	GTE			RT4	
2900 mm (114 in.)		GT2/GT3				
3000 mm (118 in.)	EP, EL, EP2, ET					
3250 mm (128 in.)			GB			
5080 mm (200 in.)		GP			RP, RD4	
6350 mm (250 in.)				RP5		
7620 mm (300 in.)		GH		RH5	RH, RS	TH
20000 mm (787 in.)					RF	



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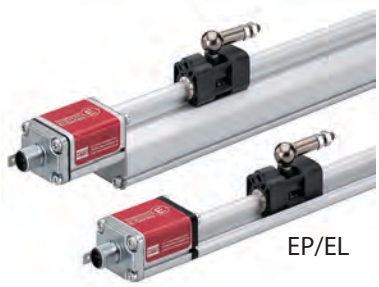
Temposonics Linear Transducers

Temposonics
AN AMPHENOL COMPANY

ATI

E-SERIES
(EH, ET, EP, EL, EP2, ER, EE)



EP/EL

Output

	EH	ET	EP/EL	EP2	ER	EE
Current	Infinite	16 bit*	Infinite	Infinite	Infinite	Infinite
Voltage	Infinite	16 bit*	Infinite	Infinite	Infinite	–
Start/Stop	**	**	**	**	**	–
SSI	20 µm	5 µm	20 µm	20 µm	20 µm	–
CANopen	10 µm	–	10 µm	10 µm	10 µm	–
IO-Link	5 µm	–	5 µm	5 µm	5 µm	–

Stroke Length

EH/EE:	50…2540 mm (2…100 in.)
ET/EP/EL/EP2 :	50…3000 mm (2…118 in.)
ER:	50…1500 mm (2…60 in.)

G-SERIES
(GH, GP, GT2/GT3, GTE)

GP/GH

Output

	GH	GP	GT2/GT3	GTE
Current	Infinite	Infinite	Analog	Infinite
Voltage	Infinite	Infinite	Analog	Infinite
Start/Stop	*	*	–	–
PWM	*	*	–	–

Stroke Length

GH:	50…7620 mm (2…300 in.)
GP:	50…5080 mm (2…200 in.)
GT2/GT3:	50…2900 mm (2…114 in.)
GTE:	50…2540 mm (2…100 in.)

GB-SERIES
With threaded flange (GB-M, GB-T)or pressure fit flange (GB-M, GB-T)

GB-T

Output

	GB
Current	16 bit
Voltage	16 bit
SSI	5 µm

Stroke Length

GB	25…3250 mm (1…128 in.)

R-SERIES V
The new generation (RH5, RP5)

RH5

Output

	RH5	RP5
Current	16 bit	16 bit
Voltage	16 bit	16 bit
SSI	0.1 µm	0.1 µm
EtherCAT®	0.5 µm	0.5 µm
EtherNet/IP™	1 µm	1 µm
POWERLINK	0.5 µm	0.5 µm
PROFINET	0.5 µm	0.5 µm

Stroke Length

RH5:	25… 7620 mm (1…300 in.)
RP5:	25… 6350 mm (1…250 in.)

R-SERIES
(RH, RP, RF, RD4, RT4, RS)

RH/RP

Output

	RH	RP	RF	RD4	RT4	RS
Current	–	–	16 bit	16 bit	–	–
Voltage	–	–	16 bit	16 bit	–	–
SSI	–	–	2 µm	1 µm	1 µm	–
Profibus	1 µm	1 µm	1 µm	1 µm	–	1 µm
CANbus	2 µm	2 µm	2 µm	2 µm	–	2 µm
DeviceNet	2 µm	2 µm	2 µm	2 µm	–	–
EtherCAT®	–	–	1 µm	1 µm	–	–
EtherNet/IP™	–	–	1 µm	1 µm	–	–
POWERLINK	–	–	1 µm	1 µm	–	–
PROFINET	–	–	1 µm	1 µm	–	–

Stroke Length

RH:	25… 7620 mm (1…300 in.)
RP/RD4:	25… 5080 mm (1…200 in.)
RF:	150…20000 mm (6…787 in.)
RT4:	25… 2540 mm (1…100 in.)
RS:	50… 7620 mm (1…300 in.)

T-SERIES
(TH)

TH

Output

	TH
Current	Minimum 16 bit
SSI	Minimum 0.5 µm
CANbus	Minimum 2 µm

Stroke Length

GB	Standard: 25…7620 mm (1…300 in.)

Ex SAFE

Absolute Rotary Encoders

Absolute Rotary Measurement

POSITAL

ATI

Absolute Speed & Position Measurement

- All important industrial ouput formats available
- Programmable incremental encoders
- TTL and HTL in one encoder
- Can retrofilt virtually any encoder

PROFIsafe · SSI · PROFIBUS · PROFINET · DeviceNet · EtherNet/IP · Ethernet Modbus TCP · EtherCAT Technology Group · CANopen

Industrial Duty Draw Wire with High Quality Encoder Output

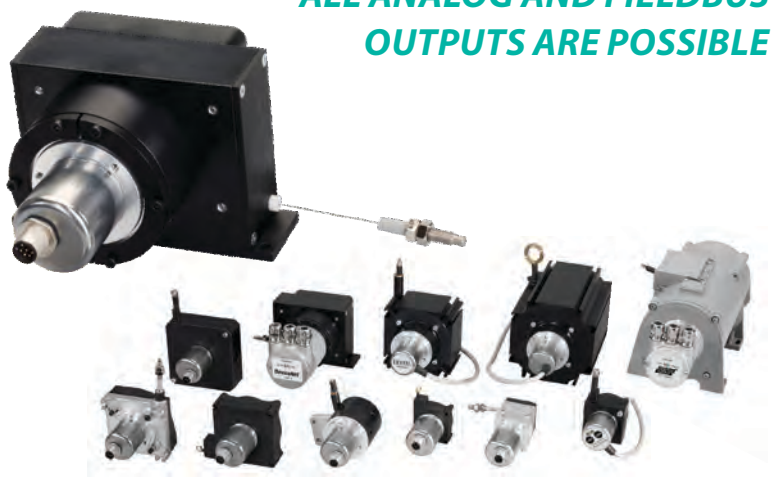
- Analog 4-20mA output
- Analog with 0-10V output
- Analog with SSI output

Specs

Measuring Strokes

- 3000mm, 5000mm, 10000mm
- Suitable for rugged outdoor usage
- Multiple interface options
- Flexible mounting options

ALL ANALOG AND FIELDBUS OUTPUTS ARE POSSIBLE



Incremental Programmable Encoders

POSITAL

ATI

Y06-2AW

1 up to 16,384 Pulses

Specs

Voltage	*Output*	*Flange*
4.75–30Vdc	Push-Pull (HTL) or TTL (RS422)	Synchro 6mm Shaft

Y06-2RW

1 up to 16,384 Pulses

Specs

Voltage	*Output*	*Flange*
4.75–30Vdc	Push-Pull (HTL) or TTL (RS422)	Synchro 6mm Shaft

L10-2AW

1 up to 16,384 Pulses

Specs

Voltage	*Output*	*Flange*
4.75–30Vdc	Push-Pull (HTL) or TTL (RS422)	Synchro 10mm Shaft

Y06-PRL

1 up to 16,384 Pulses

Specs

Voltage	*Output*	*Flange*
4.75–30Vdc	Push-Pull (HTL) or TTL (RS422)	Synchro 6mm Shaft

Y10-2AW

1 up to 16,384 Pulses

Specs

Voltage	*Output*	*Flange*
4.75–30Vdc	Push-Pull (HTL) or TTL (RS422)	Synchro 10mm Shaft

Y10-2RW

1 up to 16,384 Pulses

Specs

Voltage	*Output*	*Flange*
4.75–30Vdc	Push-Pull (HTL) or TTL (RS422)	Synchro 10mm Shaft

Y10-PRL

1 up to 16,384 Pulses

Specs

Voltage	*Output*	*Flange*
4.75–30Vdc	Push-Pull (HTL) or TTL (RS422)	Synchro 10mm Shaft

H15-PRL

1 up to 16,384 Pulses

Specs

Voltage	*Output*	*Flange*
4.75–30Vdc	Push-Pull (HTL) or TTL (RS422)	15mm Blind Hollow

L10-2RW

1 up to 16,384 Pulses

Specs

Voltage	*Output*	*Flange*
4.75–30Vdc	Push-Pull (HTL) or TTL (RS422)	Synchro 10mm Shaft

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Incremental Heavy Duty Encoders

HÜBNER BERLIN
A Baumer Brand

ATI

The original Hübner Berlin

- Unrivalled service life and reliability
- Proven HeavyDuty design with double-sided bearing setup
- Precise speed signals for improved process control and process quality
- Minimizing time and cost-intensive downtime
- Benefit from more than 60 years of experience of the world market leader

HOG9

Design 99 mm – hollow shaft and cone shaft

- Blind hollow shaft with ø12 mm or ø16 mm
- Cone shaft ø17 mm (1:10)
- 500 ... 5000 ppr
- Rotatable terminal box, flange connector M23 or cable outlet

POG9

Design 115 mm – solid shaft with EURO flange B10

- Solid shaft ø11 mm with EURO flange B10
- 500 ... 5000 ppr
- Operating speed up to 12 000 rpm
- Rotatable terminal box

HOG10

Design 105 mm - hollow shaft and cone shaft

- Blind hollow shaft ø12...20 mm
- Cone shaft ø17 mm (1:10)
- 300 ... 5000 ppr
- Operating temperature -40…+100 °C
- Hybrind bearings
- Optionally with heating for operation at temperatures down to -50 °C
- Optionally with integrated earthing brushes

POG10

Design 115 mm – solid shaft with EURO flange B10

- Solid shaft ø11 mm with EURO flange B10
- 300 ... 5000 ppr
- Operating speed up to 12 000 rpm
- Operating temperature -50 … +100 °C
- Variants with housing base B3

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Incremental Heavy Duty Encoders HOG800 / 1000

HÜBNER BERLIN
A Baumer Brand

ATI

The original Hübner Berlin

- Outstanding service life and system uptime
- Unique protection against dust, moisture, overvoltage and miswiring
- Easy parameterization of speed and service life monitoring
- Compact design and sealed, user-friendly field termination

HOG800

HeavyDuty encoders with leading all-round protection and new smart functions

- For demanding machinery and asynchronous drives
- Corrosion protection CX
- Operation temperature -40...100 °C
- Cable length 350 m (HTL-P)
- Extended electrical protection
- Parametrization
- Status monitoring with Baumer Sensor Suite

HOG1000

Smart Heavy Duty encoders for use in aggressive heat, cold, dust and wetness

- For demanding nearshore machinery and large drives
- Manipulation-proof and fail-safe centrifugal switch
- Three push outputs or solid-state relays
- Parameterization with Baumer Sensor Suite
- Standstill, speed, direction and status monitoring with Baumer Sensor Suite or switches

*The **Normand Power Supply** is recommended for all ATI sensors*

Opkon Linear Displacement Sensors

Linear Potentiometers

LPT Series

Square Body Potentiometer

Specs

Body	*Stroke*	*Resistance*
Square 33 x 34.5mm	30-1000mm	5k-10k

LPH Series

Sliding Rod Potentiometer

Specs

Body	*Stroke*	*Resistance*
Square 33 x 33mm	100-1250mm	10k

LPS Series

Spring Loaded Potentiometer

Specs

Body	*Stroke*	*Resistance*
Square 33 x 34.5mm	30-150mm	5k-10k

LPC Series

Round Body Potentiometer

Specs

Body	*Stroke*	*Resistance*
Round 38mm OD	50-700mm	5k-10k

SLPT Series

Slim Series Potentiometer

Specs

Body	*Stroke*	*Resistance*
Slim 18 x 24,7mm	10-300mm	2k-5k-10k

SLPC Series

Slim Series Potentiometer with Rod Ends

Specs

Body	*Stroke*	*Resistance*
Slim 18 x 24,7mm	10-300mm	2k-5k-10k

SLPS Series

Slim Series Potentiometer Spring Loaded

Specs

Body	*Stroke*	*Resistance*
Slim 18 x 24,7mm	10-100mm	2k-5k

DWE with Integrated Encoder

Specs

Measuring Strokes

- 500mm, 1000mm, 1500mm, 2000mm, 2500mm, 3000mm, 3500mm, 3600mm
- Incremental 50 µm / 25 µm resolution
- Push-pull, TTL Linedriver or HTL Linedriver
- Easy mounting
- High protection degree

*The **Normand Power Supply** is recommended for all ATI sensors*

Authorized Distributor

ATI Systems is the appointed distributor for the HEIDENHAIN range of products

HEIDENHAIN DEALER AUTHORIZED

Linear Encoders

- Linear encoders from HEIDENHAIN measure the position of linear axes without added mechanical intervention.

Angle Encoders

- Position your rotational axes at high accuracies on the order of a few arc seconds.

Rotary Encoders

- Entrust your application to premium quality, durability, and precision. Robust and easy-to-install rotary encoders.

CNC Controls

- CNC controls from HEIDENHAIN are shop-friendly, versatile, and high-performing.

Software Products

- Integrate CNC controls, the shop floor, and your office for greater efficiency with CNC software options and PC tools.

Touch Probes / Vision Systems

- How can you reduce setup times, boost machine-tool up-time, and ensure process reliability for high manufacturing quality?

Signal Converters

- HEIDENHAIN signal converters adapt encoder signals to the interface requirements of your application's.

Digital Readouts

- High-performance digital readouts from HEIDENHAIN of machines, automation systems, and metrology applications.

Length Gauges

- Length gauges from HEIDENHAIN can measure even long measuring ranges quickly, reliably, and accurately.

*The **Normand Power Supply** is recommended for all ATI sensors*

Switching Power Supplies

Flex Series

Input 115–230Vac

Specs

Voltage Output	*Current Output*
24 Vdc	3A; 5A; 7.5A; 14A; 25A

Flex Series

Selectable Voltage Input
230-400–500Vac,
2 and 3 Phase

Specs

Voltage Output	*Current Output*
24 Vdc	5A; 7.5A; 14A - 2 Phase 25A - 3 Phase

Features

- Temperature Range up to 60°C
- Voltage Range 230 - 500 Vac
- Din Rail Mountable
- Extremely Small in Size
- 3 Protective Modes - Hiccup, Foldback and Restart After Main Failure

Ratings

Output Voltage:
- 24Vdc

Output Continuous Current:
- 1-phase: 2 – 2,5 –5 - 7,5 – 9 - 14,5 –25A
- 2-phase: 5 –7,5 –14,5A
- 3-phase: 25A

Hiccup Mode

Automatic Restart. This is the default factory setting of all FLEX units. In case of short-circuit or overloading, the output current is interrupted. The device tries again to re-establish output voltage and normal condition about every 2 second till the problem is cleared.

Manual Reset

Manual Restart by Operator. In case of short-circuit or overload, the output current is interrupted. In order to restart the output it is necessary to switch-off the input circuit for about 1 minute. This protection mode is particularly suggested in applications where safety procedures require that reset be carried out only by an authorised person.

Continuous Output Mode

In case of short-circuit or overload, the output current is kept at high values with near zero voltage. In case of short circuit the current can reach up to 3 times the rated current at 60°C. This protection mode is used to meet the requirements of demanding loads such as motors, solenoid valves, lamps, PLC with highly capacitive input circuits and other loads with marked transient overload behavior.

ATI Systems

Committed to Quality

Head Office

011 383 8300
International: +27 (0) 11 383 8300
sales@atisystems.co.za - www.atisystems.co.za
159 Galjoen Rd, Wadeville, Germiston

Cape Town Branch

021 001 5553
International: +27 (0) 21 001 5553
cape@atisystems.co.za - www.atisystems.co.za
5 Aspen St, Fisantekraal, Cape Town