

# INCREMENTAL ENCODERS

SHORT FORM CATALOG





# INCREMENTAL ENCODERS

## Made to move industry

For **more than 40 years**, Hohner Automation has focused on one thing: building dependable encoders that keep machines moving with confidence. Designed and manufactured in **Europe**, our incremental range combines in-house optics, mechanics and electronics with the service and flexibility engineers expect from a specialist.

This short catalogue offers a clear, elegant overview of our portfolio, miniature to heavy duty, solid shaft and hollow shaft, standard and programmable, so you can identify the right encoder quickly and specify it with certainty. Behind every model sits our **fast response** and **technical support** from people who speak your application.

Trusted by OEMs and maintenance teams across packaging, lift, metal, renewables, F&B and more, we are **your encoder experts** for precise, robust and efficient motion control.



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# Ø58 STANDARD ENCODERS

## Complete, robust and ready for any drive






	SERIE 10/10A	SERIE 11	SERIE 58/58A	SERIE 58S
External diameter	58 mm	58 mm	58 mm	58 mm
Shaft type	Solid	Solid	Solid	Solid
Shaft Ø	6 to 12 mm	10 mm	6 mm	6 mm
Interface				
Max. pulses per turn	50000	5000	50000	2500
Sensing method	Optic	Optic	Optic	Optic
Power supply	5 VDC 11..30 VDC	5 VDC 11..30 VDC	5 VDC 11..30 VDC	5 VDC
Electronic output	Open collector Push-Pull RS422	Open collector Push-Pull RS422	Open collector Push-Pull RS422	SIN/COS
Max. revolutions	6000	6000	6000	6000
IP protection	IP67	IP65	IP67	IP65
Temperature	-40 to +80°C	-40 to +80°C	-40 to +80°C	-20 to +80°C
Connection	Cable Mil 10p Mil 7p M23 M12 DIN 43650	Cable	Cable M12 M23	Cable M12 M23

**Ø58 mm is the reference size for incremental encoders.** Hohner offers one of the most comprehensive ranges in this format: solid shaft, hollow shaft and blind hollow, combining high-precision optical sensing with robust mechanics.

Configure resolutions from **1 to 50000 ppr**, choose **TTL/RS422** or **HTL** outputs, and specify supply ranges and **IP** sealing to suit the environment. A choice of connections and mounting options ensures a clean, reliable fit in your design.

**SERIE 19/19A****SERIE 59/59A****SERIE 59S**

58 mm	58 mm	58 mm
Blind hollow	Hollow	Hollow
6 to 15 mm	10 to 15 mm	10 to 14 mm
		
50000	50000	2048
Optic	Optic	Optic
5 VDC 11..30 VDC	5 VDC 11..30 VDC	5 VDC
Open collector Push-Pull RS422	Open collector Push-Pull RS422	SIN/COS
6000	6000	6000
IP67	IP67	IP65
-40 to +80°C	-40 to +80°C	-20 to +80°C
Cable M12 M23	Cable M12 M23	Cable M12 M23








# CONIC SHAFT ENCODERS

## Self-centering, vibration-proof mounting

Conical shaft encoders seat directly on the motor or gearbox shaft with a secure, self-centering fit that locks under load. The result is backlash-free positioning, repeatable alignment and high resistance to shock and vibration.






	SERIE 64	SERIE 64S	SERIE 66	SERIE 67	SERIE 67S
External diameter	58 mm	58 mm	58 mm	58 mm	58 mm
Shaft type	Conic	Conic	Thread	Solid, Conic	Solid, Conic
Shaft Ø	1:10	1:10	M8	10 mm, 1:10	10 mm, 1:10
Interface					
Max. pulses per turn	10000	2048	10000	1024	1024
Sensing method	Optic	Optic	Optic	Optic	Optic
Power supply	5 VDC 11..30 VDC	5 VDC	5 VDC 11..30 VDC	5..30 VDC 11..30 VDC	5 VDC 7..30 VDC
Electronic output	Open collector Push-Pull RS422	SIN/COS	Open collector Push-Pull RS422	Push-Pull RS422	SIN/COS
Max. revolutions	6000	6000	6000	6000	6000
IP protection	IP54	IP54	IP64	IP66	IP66
Temperature	-40 to +80°C	-20 to +80°C	-40 to +80°C	-20 to +80°C	-30 to +100°C
Connection	Cable	Cable	Cable M16	Cable	Cable Terminal box

# Ø50 COMPACT ENCODERS

## Robust performance in minimal space

Hohner Ø50 encoders deliver the same mechanical characteristics as the Ø58 format in a smaller footprint. Ideal for designs that demand small size without sacrificing reliability.

**SERIE 50****SERIE 50H****SERIE 50HC**





50 mm	50 mm	50 mm
Solid	Hollow	Hollow
6 to 10 mm	6 to 12 mm	4 to 8 mm
		
5000	5000	32768
Optic	Optic	Optic
5 VDC 11..30 VDC	5 VDC 11..30 VDC	5 VDC 11..30 VDC
Open collector Push-Pull RS422	Open collector Push-Pull RS422	Push-Pull RS422
6000	6000	6000
IP65	IP65	IP54
-40 to +80°C	-40 to +80°C	-40 to +85°C
Cable M12 M23	Cable M12 M23	Cable

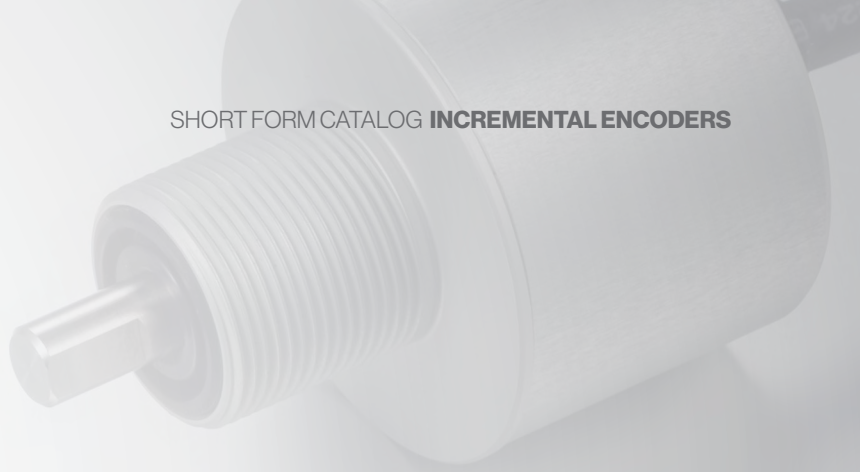


# MINIATURE ENCODERS

## Big precision in a small package



	SERIE 18	SERIE 26	SERIE 27	SERIE 28
External diameter	18 mm	24 mm	24 mm	24 mm
Shaft type	Solid	Solid	Solid	Blind hollow
Shaft Ø	2.5 mm	4, 6 mm	4, 6 mm	4 to 8 mm
Interface				
Max. pulses per turn	4096	4096	4096	4096
Sensing method	Magnetic	Optic	Optic	Optic
Power supply	5 VDC 4.5..13.2 VDC	5 VDC 11..30 VDC	5 VDC 11..30 VDC	5 VDC 11..30 VDC
Electronic output	Open collector RS422	Open collector Push-Pull RS422	Open collector Push-Pull RS422	Open collector Push-Pull RS422
Max. revolutions	6000 rpm	6000 rpm	6000 rpm	6000 rpm
IP protection	IP54	IP64	IP64	IP64
Temperature	-10 to 85°C	-40 to 80°C	-40 to 80°C	-40 to 80°C
Connection	Cable	Cable	Cable	Cable



When space is tight, Hohner miniature encoders deliver full-scale feedback in bodies from Ø18 to Ø40 mm. Carefully engineered mechanics, precision bearings and effective shielding turn compact size into dependable performance.

- Save space and weight without losing accuracy.
- Lower inertial load for faster, smoother dynamics.
- Shorter stack lengths and easier cable routing.
- Consistent signal quality thanks to engineered electronics and shielding.
- Integration made simple with compact mounts and standard connections.



**SERIE 36**



**SERIE 22**








**SERIE 22H**



**SERIE 22M**



**SERIE 21**


SERIE 36	SERIE 22	SERIE 22H	SERIE 22M	SERIE 21
36.5 mm	36.5 mm	36.5 mm	36.5 mm	40 mm
Solid	Blind hollow	Hollow	Blind hollow	Shaft
6 mm	6 mm	6, 8 mm	10, 12 mm	6 mm
				
10000	10000	10000	512	500
Optic	Optic	Optic	Magnetic	Optic
5 VDC 11..30 VDC	5 VDC 11..30 VDC	5 VDC 11..30 VDC	5 VDC 11..30 VDC	5 VDC 11..30 VDC
Open collector Push-Pull RS422	Open collector Push-Pull RS422	Open collector Push-Pull RS422	Push-Pull RS422	Open collector Push-Pull RS422
6000 rpm	6000 rpm	6000 rpm	6000 rpm	5000 rpm
IP65	IP64	IP50	IP65	IP41
-40 to 80°C	-40 to 80°C	-40 to 80°C	-20 to 85°C	-20 to 60°C
Cable M12	Cable M12	Cable M12	Cable	Cable



# STAINLESS STEEL ENCODERS

## Hygienic, corrosion-resistant, IP69K



	SERIE 10I	SERIE 10K 	SERIE 30I
External diameter	58 mm	58 mm	90 mm
Shaft type	Solid	Solid	Solid
Shaft Ø	10 mm	10 mm	12 mm
Interface			
Max. pulses per turn	50000	50000	50000
Sensing method	Optic	Optic	Optic
Power supply	5 VDC 11..30 VDC	5 VDC 11..30 VDC	5 VDC 11..30 VDC
Electronic output	Open collector Push-Pull RS422	Open collector Push-Pull RS422	Open collector Push-Pull RS422
Max. revolutions	6000	3600	6000
IP protection	IP67	IP69K	IP67
Temperature	-40 to +80°C	-40 to +80°C	-40 to +80°C
Connection	Cable	Cable M12	Cable

Built for the harshest cleaning and the toughest environments, Hohner stainless steel encoders combine sealed construction with smooth, easy-to-clean surfaces. From high-pressure **IP69K** washdown and aggressive detergents to salt mist or even **subsea** exposure, the range delivers durable mechanics and stable signals under constant stress.

Trusted in demanding sectors such as Food & Beverage, marine and outdoor machinery where repeated washdowns, disinfectants and exposure to moisture call for uncompromising protection.






**SERIE 50HI** 



**SERIE 19K** 



**SERIE 130M** 

55 mm	58 mm	134 mm
Blind hollow	Blind hollow	Hollow
6 mm	10 mm	16 to 25 mm
		
5000	5000	2048
Optic	Optic	Magnetic
5..30 VDC	5 VDC 11..30 VDC	5 VDC 9..30 VDC
Push-Pull	Open collector Push-Pull RS422	RS422 HTL
6000	3600	2800
IP67	IP69K	IP68
-20 to +85°C	-40 to +80°C	-20 to +90°C
Cable	Cable M12	Industrial connector 8p



# HEAVY DUTY ENCODERS

## Engineered for extreme environments






SERIE 30/30A



SERIE 100/DUO



SERIE 77

	SERIE 30/30A	SERIE 100/DUO	SERIE 77
External diameter	90 mm	100 mm	77 mm
Shaft type	Solid	Solid	Hollow
Shaft Ø	12 mm	11 mm	15 to 25 mm
Interface			
Max. pulses per turn	50000	5000	5000
Sensing method	Optic	Optic	Optic
Power supply	5 VDC 11..30 VDC	5 VDC 9..30 VDC	5 VDC 11..30 VDC
Electronic output	Open collector Push-Pull RS422	Push-Pull RS422	Open collector Push-Pull RS422
Max. revolutions	6000	6000	6000
IP protection	IP67	IP66	IP65
Temperature	-40 to +80°C	-20 to +100°C	-40 to +80°C
Connection	Cable Mil 7p Mil 10p M23 DIN 43650	Cable M12 M23 Terminal box	Cable M23



Hohner heavy duty and large-shaft encoders are built for continuous operation in the harshest conditions.

Reinforced housings, sealed construction and robust electronics keep signals stable under shock, vibration, dust, humidity and wide temperatures. A dependable choice for the most demanding applications where robustness and uptime are critical.






**SERIE 80**



**SERIE 100H/DUO**



**SERIE 120**





100 mm	100 mm	120 mm
Hollow	Blind hollow	Hollow
30 to 42 mm	12, 16 mm	45 to 65 mm
		
5000	5000	40000
Optic	Optic	Optic
5 VDC 11..30 VDC	5 VDC 9..30 VDC	5 VDC 11..30 VDC
Open collector Push-Pull RS422	Push-Pull RS422	Open collector Push-Pull RS422
3600	6000	2700
IP65	IP66	IP65
-40 to +80°C	-20 to +100°C	-20 to +80°C
Cable M12 M23	Cable M12      M23 Terminal box	Cable M23



# BEARINGLESS KIT ENCODERS

## Wear-free by design, built for uptime



	SERIE BME INC	SERIE MIE	SERIE MIE48 
External diameter	52 mm	54 mm	43.5 mm
Shaft type	On-axis	On-axis	On-axis
Shaft Ø	-	-	-
Interface			
Max. pulses per turn	1024	1	1024
Sensing method	Magnetic	Magnetic	Magnetic
Power supply	5 VDC 5..30 VDC 11..30 VDC	5..30 VDC	5..30 VDC
Electronic output	Open collector Push-Pull RS422	Push-Pull	Push-Pull
Max. revolutions	3000	12000	5000
IP protection	IP65	IP67	IP65
Temperature	-40 to +85°C	-20 to +85°C	-20 to +85°C
Connection	Cable	Cable M8	M12

Bearingless kit encoders bring the advantages of contactless sensing to demanding drives: no bearings, no shaft load and no added inertia.

The slim ring plus stationary head frees valuable space around the motor, while generous mounting tolerances speed assembly and make service straightforward. Magnetic reading remains stable in dust, oil and vibration, helping cut unplanned stops. The result is long-life, low-maintenance feedback with clean cabling and the flexibility to match a wide range of shaft sizes.



**SERIE MR**







**SERIE MRH**



**SERIE MSF INC**



**SERIE MRK55** 

105 to 160 mm	105 to 250 mm	-	55 mm
Hollow	Hollow	Hollow	Hollow
11 to 19 mm	9 to 28 mm	6 to 30 mm	10 to 16 mm
			
1	4096	16384	512
Magnetic	Magnetic	Magnetic	Magnetic
5..30 VDC	5..30 VDC	5..30 VDC	11..30 VDC
Push-Pull	Push-Pull RS422	Push-Pull	Push-Pull
6000	6000	6000	12000
IP67	IP67	IP67	-
-20 to +85°C	-20 to +85°C	-25 to +85°C	-20 to +85°C
M12	Cable M12	Cable	PCB



# PROGRAMMABLE ENCODERS

## The all-in-one solution

Versatile by design, Hohner programmable encoders let you set PPR on-site via standard USB-no programming box- so urgent replacements are fast and downtime stays low.



SERIE PR90



SERIE PR90H

	SERIE PR90	SERIE PR90H
External diameter	58 mm	58 mm
Shaft type	Solid	Hollow
Shaft Ø	6, 10 mm	8 to 15 mm
Interface		
Max. pulses per turn	65536 programmable	65536 programmable
Sensing method	Optic	Optic
Power supply	5..30 VDC	5..30 VDC
Electronic output	TTL - HTL programmable	TTL - HTL programmable
Max. revolutions	6000 rpm	6000 rpm
IP protection	IP65	IP65
Temperature	-20 to +80°C	-20 to +80°C
Connection	Cable M12 M23	Cable M12 M23

# **CUSTOM ENCODERS**

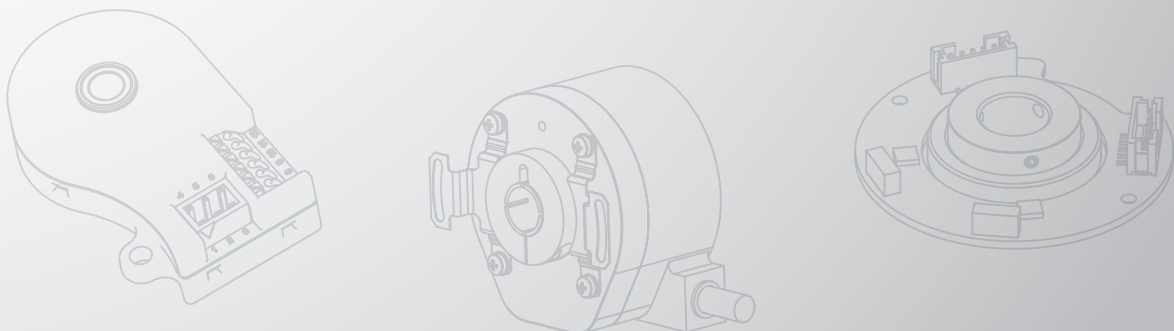
## To fit your application

Hohner Automation delivers tailor-made encoders that fit from the start.

Dimensions, mounting, sealing, interfaces and features are adapted to your requirement so the result drops in cleanly, no compromises. Customization is available from prototypes and samples to small series, **without additional cost**, keeping projects agile and inventories lean.

Backed by in-house optical, mechanical, electronic and cabling know-how, we configure exactly what your line needs: **redundant** or **configurable** models, **bearingless kit** versions, **stainless/IP69K** or **subsea** builds and **extra-robust** executions for shock, vibration or extreme environments.

From concept to validation, our team provides clear guidance for fast decisions, easy integration and dependable performance that adds measurable value.





# ACCESSORIES

## Where details drive reliability

### FLEXIBLE COUPLINGS

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To compensate misalignment and isolate vibration for smooth, low-load transmission.



- Alu-Flex
- Poly-Flex
- Spring-Flex
- Bellow-Flex
- Lami-Flex
- Oldham Flex Clamp
- Pagu-Flex
- Cross-Flex
- Union

### ANTI-ROTATION SYSTEMS

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To prevent the encoder housing from turning in hollow/blind hollow mounts, protecting bearings and absorbing shaft eccentricity.



- Anti-turn stick
- Anti-rotation pin
- Flexible flange
- Expanding coupling

### COUPLING BELLS

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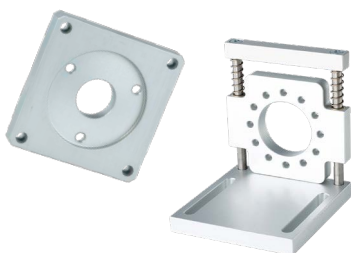
To protect and align the encoder in harsh or open installs; seal and decouple the coupling.



### FLANGES & ANGLES

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To facilitate solid shaft encoder mounting to any machine or structure, ensuring strong mechanical support and quick assembly or disassembly.



## MEASURING WHEELS

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To convert rotary pulses to linear measurement with reliable traction. When used with flexible angles, they maintain continuous contact and compensate for surface irregularities.

- Rubber-coated
- Polyurethane
- Knurled metal
- O-ring profile

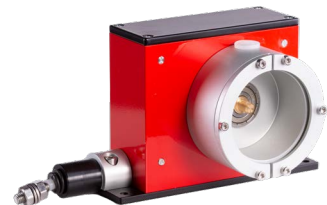


## DRAW WIRE SYSTEMS

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Linear measurement by wire for distances up to 50 m, combining compact design and precise feedback.

- EM4 / EM8 / EM10
- XT12 / XT18
- XS1 INC



## CONNECTORS

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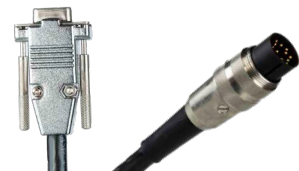
Industrial connectors for quick, reliable wiring and easy service.



## PRE-ASSEMBLED CABLES

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Ready-to-use cable sets with overmoulded connectors, correct pinouts and lengths to speed installation and reduce errors.



**Precision, speed** and **flexibility** engineered into every encoder.

With in-house optics, mechanics, and electronics, **HOHNER  
AUTOMATION** turns custom requirements into reliable  
performance across industries worldwide.

Partner with a team that supports you from design to  
deployment: **your encoder experts.**



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