



 your  
**encoder**  
experts

—  
since **1983**





# INCREMENTAL ENCODERS

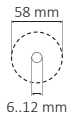
## SOLID SHAFT



**SERIE 10 / 10A**



≤ 50.000 ppr  
IP65 / IP67  
Cable or connector



**SERIE 58 / 58S**



≤ 50.000 ppr / 2.500 ppr  
IP65  
Cable or connector



**SERIE 64 / 64S**



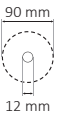
≤ 10.000 ppr / 2.048 ppr  
IP54  
Cable



**SERIE 30 / 30A / 30I**



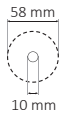
≤ 50.000 ppr  
IP65 / IP67  
Cable or connector



**SERIE 10K INOX**



≤ 50.000 ppr  
IP69K  
Cable



**SERIE 66**



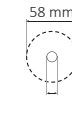
≤ 50.000 ppr  
IP64  
Cable or connector



**SERIE 67 / 67S**



≤ 5.000 ppr  
IP66  
Cable



**SERIE 100 / 100 DUO**



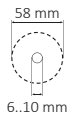
≤ 50.000 ppr  
IP66  
Cable or connector



**SERIE PR90**



≤ 65.536 ppr  
IP65  
Cable or connector



**SERIE 50**



≤ 5.000 ppr  
IP65  
Cable or connector



**SERIE 36**



≤ 10.000 ppr  
IP65  
Cable or connector



**SERIE 26 / 27**



≤ 4.096 ppr  
IP64  
Cable



**SERIE BME**



≤ 1.024 ppr  
IP65  
Cable



**SERIE 11**



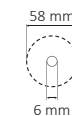
≤ 5.000 ppr  
IP65  
Cable



**SERIE 20**



≤ 1.024 ppr  
IP54  
Cable



**SERIE 21**



≤ 500 ppr  
IP41  
Cable



① RANGE OF TEMPERATURE -20°C...+85°C / OPTIONAL -40°C + 100°C POWER SUPPLY 5V / 11..30V / OPTIONAL 5..24V








# INCREMENTAL ENCODERS

## HOLLOW SHAFT


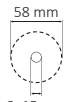


**SERIE 59 / 59A / 59S**




  
 $\leq 50.000$  ppr / 2.048 ppr  
 IP65 / IP67  
 Cable or connector





**SERIE 19 / 19A**



  
 $\leq 50.000$  ppr  
 IP65 / IP67  
 Cable or connector





**SERIE 77**



  
 $\leq 5.000$  ppr  
 IP65  
 Cable or connector





**SERIE 80**



  
 $\leq 5.000$  ppr  
 IP65  
 Cable or connector


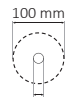


**SERIE 19K**



  
 $\leq 50.000$  ppr  
 IP69K  
 Cable





**SERIE 100H / 100H DUO**



  
 $\leq 5.000$  ppr  
 IP66  
 Cable or connector





**SERIE 120**



  
 $\leq 10.000$  ppr  
 IP65  
 Cable or connector





**SERIE 130M**



  
 $\leq 2.048$  ppr  
 IP68  
 Connector


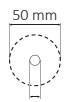


**SERIE 50HI INOX**



  
 $\leq 5.000$  ppr  
 IP67  
 Cable





**SERIE 50H / 50HC**



  
 $\leq 5.000$  ppr / 16.384 ppr  
 IP65  
 Cable or connector





**SERIE 22 / 22H**



  
 $\leq 10.000$  ppr  
 IP64 / IP50  
 Cable or connector


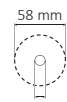


**SERIE 28**



  
 $\leq 4.096$  ppr  
 IP64  
 Cable



**SERIE PR90H**



  
 $\leq 65.536$  ppr  
 IP65  
 Cable or connector





**SERIE MIE**



  
 1 ppr  
 IP67  
 Cable



**SERIE MR / MRH**



  
 1 ppr /  $\leq 4.096$  ppr  
 IP67  
 Cable



**SERIE 22M**



  
 $\leq 512$  ppr  
 IP65  
 Cable

# ABSOLUTE ENCODERS

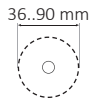


## SINGLETURN & MULTITURN

### SSI ABSOLUTE ENCODERS



- > Singleturn resolution up to 21 bits
- > Multiturn resolution up to 24 bits
- > Solid, blind hollow or hollow shaft
- > Binary, Gray codes. Configurable via cable or switch
- > Protection up to IP67. Cable or connector output

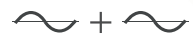


#### SERIE E36/E58 SSI

- Singleturn  $\leq$  13 bits
- Multiturn  $\leq$  24 bits
- Protection up to IP65
- Connection by cable or connector



### ABSOLUTE + INCREMENTAL ENCODERS



- > Singleturn resolution up to 19 bits
- > Incremental resolution 2.048 SIN/COS
- > BISS-C or SSI + SIN/COS or SIN/COS + SIN/COS
- > Solid, conical, blind hollow or hollow shaft
- > Protection up to IP65. Cable or connector output



### ANALOG ABSOLUTE ENCODERS

- > Analogical output 4..20mA, 0..20mA, 0..10V or 0..5V
- > Singleturn or multiturn, up to 16 bits resolution
- > Solid, blind hollow or hollow shaft
- > Configurable option of measuring range, reset or direction
- > Protection up to IP67. Cable or connector output



### PARALLEL ABSOLUTE ENCODERS

- > Singleturn or multiturn
- > Solid or hollow shaft
- > Configurable: reset or direction
- > Protection up to IP67. Cable or connector output



### ABSOLUTE ENCODERS FIELDBUS

- > Hohner Automation is offering all the Fieldbus encoders, Profibus, Profinet, Devicenet, CanOpen, CANlift, EtherCAT, EtherNet/IP, Interbus, Modbus/TCP, TCP/IP, Powerlink



Devicenet

EtherNet/IP

CANopen

EtherCAT



# ACCESSORIES

- > Flexible couplings
- > Coupling flanges
- > Mounting bells
- > Connectors
- > Measuring wheels
- > Antirotaion systems
- > Pre-assembled cables
- > Support angles







# DRAW WIRE SYSTEMS



## LINEAR MEASUREMENT



**SERIE EM4 / 8 / 10**

≤ 4 m / 8 m / 10 m  
≤ 1 m/s / 0,75 m/s  
200 / 250 / 300 mm ±0,06 turn



**SERIE XT12 / 18**

≤ 15 m / 50 m  
≤ 10 m/s  
300 mm / 500 mm turn



**SERIE XS1 INC / ANA**

Incremental / Analog Output

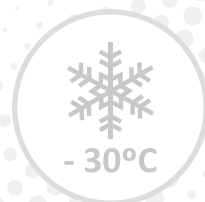
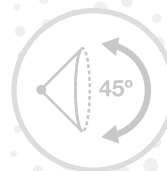
≤ 1,25 m  
≤ 10 ppr/mm / ≤ 16 bits  
≤ 1 m/s



**SERIE XQ SSI / PAR**

Analog / Parallel Output

≤ 2,3 m  
≤ 10 ppr/mm  
≤ 1 m/s



Draw wire systems allow to operate a rotary sensor of any type, for the measurement of linear distances:

**+** Incremental Optical Encoder

**+** Multiturn Absolute Optical Encoder

**+** Multiturn Absolute Magnetic Encoder

**+** Potentiometer



# MAGNETIC SENSOR SYSTEMS

## LINEAR MEASUREMENT



SERIE	MSL	MSM	MSH	MSV
	Incremental	Incremental	Incremental	SIN/COS
Accuracy	± 50 µm	± 8 µm	± 6 µm	± 8 µm
Pole pitch	5+5	2+2	1+1	2+2
Resolution*	100 µm	10 µm	5 µm	0.5 µm
Protection	IP67	IP67	IP67	IP67



SERIE VIMS	
Accuracy	Incremental ± 20 µm
Pole pitch	2+2
Resolution	Programmable
Protection	IP67 / IP43



SERIE MSA	SSI
Accuracy	Absolute ± 15 µm
Pole pitch	2+2
Resolution	10 µm
Protection	IP67

(\* ) Other resolutions available, upon request.

With more than 40 years of experience, HOHNER AUTOMATION, the sole spanish optical encoders manufacturer, from its headquarter based in Breda (Girona province), designs, manufactures, commercialize and supports its customers in the development of industrial automation projects.

Our own departments of optical, mechanical and electronic manufacturing allow us to offer to our customers free engineering services with maximum efficacy and fast delivery time.

It is our flexibility and adaptability, coupled with our ethos of engineering, manufacturing excellence and quality concern, which has placed HOHNER AUTOMATION at the forefront of the best encoders manufacturers in the world.



**BARCELONA | FRANKFURT | PARIS | SHENZHEN**



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