

HENGSTLER



Encoders

- **Incremental**
- **Absolute**
- **Motor Feedback Systems**

Innovative products from your competent partner. Worldwide



Incremental Encoders



TYPE	RI36-O/RI36-H	RI58 - Solid Shaft	RI58 - Hollow-Shaft	RI80-E
Frame size	36 mm	58 mm	58 mm	100 mm
Number of pulses	5 ... 3600	1 ... 10000	1 ... 10000	1024 / 2048 / 4096
Output	RS422 (TTL), Push-Pull (HTL)	RS422 (TTL), Push-Pull (HTL)	RS422 (TTL), Push/Pull (HTL)	RS422 (TTL), Push-Pull (HTL)
Enclosure mounting	Synchro-flange or pilot flange spring tether	Synchro-, clamping, square, synchro clamping flange	Spring tether, cylindric pin	Spring tether
Shaft type	Solid shaft and hollow-shaft	Solid shaft	Through hollow shaft or hub shaft	Through hollow Shaft
Shaft diameter	6 mm	6, 10, 12 mm	10, 12, 14, 15 mm	30, 38, 45 mm
Protection class	IP64	IP64, IP67	IP64	IP50, IP64
Temperature	-10 ... +70°C	-10 ... +70°C, Optional: -25 ... +85°C	-10 ... +70°C, Optional: -25 ... +100°C	-25 ... +70°C

Absolute Encoders



TYPE	AC36	AC58 (Point-to-Point)	AC58 (Fieldbus)	AC110
Frame size	36 mm	58 mm	58 mm	110 mm
Resolution ST	12 - 17 Bit	12 - 17 Bit	10 - 14 Bit (Profibus, Interbus, CANlayer2, DeviceNet) 10 - 16 Bit (CANopen)	11 - 17 Bit ST
Resolution MT	12 Bit	12 Bit	12 Bit	12 Bit
Interface	SSI, BiSS	SSI, BiSS, Parallel	CANopen, CANlayer2, DeviceNet, Profibus, Interbus	SSI, BiSS
Enclosure mount	Pilot flange	Synchro-, Clamping, Square flange, Spring tether	Synchro-, Clamping, Square flange, Spring tether	Spring tether
Shaft diameter	6 mm	6, 10, 12 mm	6, 10, 12 mm	50 mm
Protection class	IP64	IP64, IP67	IP64, IP67	IP50, IP64
Temperature	-40 ... +100°C	-40 ... +100°C	-40 ... +85°C	-40 ... +70°C

When everything revolves around precision and safety ...

... then you can be sure that we are talking about encoders made by Hengstler. These encoder types excel with high reliability, precision, innovative technology and the legendary offered by Hengstler. Their modular design allows selecting between up to 2 million variants – so you can be sure that Hengstler builds exactly what you need. Highest integration density and the use of reliable technologies guarantee safe long-time operation – without any compromise.

Motor Feedback



TYPE	M-Series	F-Series	AD36	AD58
Frame size	22 to 53 mm	31.7 to 53 mm	36 mm	58 mm
Number of increments	1000 ... 2048	500 ... 10.000		
Number of poles	4 / 6 / 8 / 10 / 12 / 16	4 / 6 / 8 / 10 / 12 / 16	-	-
Output	NPN-O.C, RS422	NPN-O.C, RS422		
Resolution Singleturn	-	-	12 - 19 Bit	12 - 22 Bit
Resolution Multiturn	-	-	12 Bit	12 Bit
Interfaces	Incremental	Incremental	BiSS, SSI+SinCos 1 Vss	BiSS, SSI+SinCos 1 Vss
Enclosure mount	Mounting panel	Servo flange, spring tether	Spring tether	Spring tether
Shaft diameter	1.5 to 12.7 mm	6 to 12.7 mm	8 mm (Through Hollow Shaft)	Cone 10 mm
Protection class			IP40	IP40
Temperature	-20 ... +120°C	0 ... +120°C	-15°C ... +120°C	-15°C ... +120°C

Heavy Duty Encoders



TYPE	Stainless-Steel Encoders	AR62	EEx - Encoders	HSD25
Frame size	58 mm	58 mm	70 mm	59 mm
Ex Protection class	-	-	EX II G/D EEX dI IC T6/T4	ATEX EEx ia NB T4
Measuring Process	Absolute or incremental	Absolute	Absolute or incremental	incremental
Resolution/ Increments	Up to 29 Bit/ up to 10,000	12 Bit/	Up to 29 Bit/ 10,000	1 ... 3,600
Interface	SSI, BiSS, Parallel, CANopen, DeviceNet, Profibus, Interbus RS422 (TTL), Push-Pull (HTL)	CANopen, SSI, BiSS, Analog 0 ... 10 V Analog 4 ... 20 mA	SSI, CANopen, DeviceNet, Profibus RS422 (TTL), Push-Pull (HTL)	TTL, HTL, NPN-O.C.
Enclosure mount	Square flange	Servo clamping flange	Clamping flange	Servo flange
Shaft type	Solid shaft	Solid shaft	Solid shaft	Hub shaft
Shaft diameter	10 mm	10 mm	10 mm	9.52 ... 19 mm
Protection class	IP67	IP67, IP69K	IP67	IP66, IP67
Temperature	-40 up to +100°C	-40°C ... +100°C	-40 up to +60°C	-40°C ... +100°C
Shock/ Vibration	100 g / 10 g	200 g / 20 g	100 g / 10 g	50 g / 20 g