enertronic
PROYECTOS Y SUMINISTROS S.A.

Guía de Selección de Encoders

ROTARY ENCODERS

enertronic
PROYECTOS Y SUMINISTROS S.A.

MODEL	CROSS REFERENCE	NUMBER OF LINES* / RESOLUTION	ACCURACY (ARC. SEC)	SHAFT TYPE	OUTPUT SIGNALS
A24HME1		250	± 260	Hollow shaft	1 Vpp TTL. HTL
A28		60 – 2.500	Up to 52	Solid shaft	TTL
A36 (including HME1)	Heidenhain ROD 1000 series	100-3.600	Up to 36	Solid / hollow shaft	11 uApp 1 Vpp TTL. HTL
AK36 (including HME1)		Up to 21 bit singleturn ------- Up to 40 bit multiturn	± 30	Solid / hollow shaft	SSI BiSS C
A42M	Heidenhain ERO 1200 Series	1.000; 2.500	Up to 52	Hollow shaft	11 uApp 1 Vpp TTL
A75M		512; 2.048; 5.000	Up to 26	Hollow shaft	1 Vpp TTL
AK50	Hohner Series R	Up to 8 bit for turret tool holder	± 120	Solid shaft	TTL, HTL
A58 (including HE, HME, HE1)	Heidenhain ROD 400 Series, ERN 400 series	100-10.800	Up to 12	Solid/hollow/ blind shaft**	11 uApp 1 Vpp TTL. HTL
AK58 (including HME1)		Up to 20 bit singleturn ------ Up to 40 bit multiturn	± 30	Solid / hollow shaft	SSI BiSS C
AP58		1 – 65.536 (pulses per revolution)	± 60	Solid / hollow shaft	TTL, HTL
A102H		5.000; 9.000	Up to 7	Hollow shaft	11 uApp 1 Vpp TTL
AM		16 – 1.024 for HTL / Up to 12 bit for SSI	± 1080	Solid shaft	TTL, HTL SSI UVW

*others only on request. Possible interpolation factor up to x10. **depending on the model

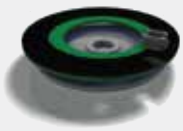
LINEAR ENCODERS

enertronic
PROYECTOS Y SUMINISTROS S.A.

MODEL		CROSS REFERENCE	MEASURING LENGTH (MM)	ACCURACY (µM/M)	OUTPUT SIGNALS
	L18	Heidenhain LS 300, 400, 800, 900 Series Fagor M Series RSF MSA 67 Series	70-2.040	± 10; ± 5; ± 3	11 uApp 1 Vpp TTL
	L18B	RSF MSA 67 Series	70-3.240	± 10; ± 5	11 uApp 1 Vpp TTL
	L18T	Heidenhain LS 400 Series Fagor SX, SY, SW, SP Series	70-1.240	± 10; ± 5	11 uApp 1 Vpp TTL
	L23		250-20.000	± 10; ± 5; ± 3	TTL
	LK24		70-3.240	± 5; ± 3	SSI BiSS C FANUC α DRIVE-CLiQ
	L35	RSF MSA 37, 39 Series	170-3.240	± 5; ± 3	11 uApp 1 Vpp TTL
	L35T	Heidenhain LS 500, 600, 700 Series RSF MSA 37, 39 Series	170-3.240	± 10; ± 5; ± 3	11 uApp 1 Vpp TTL
	L37	Heidenhain LS 100 Series	140-3.240	± 10; ± 5; ± 3	11 uApp 1 Vpp TTL
	L50	Heidenhain LB 300 Series	3.240-30.040	± 10	11 uApp 1 Vpp TTL
	MT		Up to 50.000	± 20	1 Vpp TTL HTL
	MK		Up to 50.000	± 35	SSI BiSS C CANopen

TAILOR MADE ENCODER KITS

enertronic
PROYECTOS Y SUMINISTROS S.A.

MODEL	CROSS REFERENCE	RESOLUTION	ACCURACY	SHAFT TYPE	TYPE	INTERFACE
AR25	Netzer "DS25"	up to 20 Bit (absolute) any number from 1 to 802816 (TTL) 196 lines on disc (1Vpp)	±10" *	Hollow Shaft (Ø6H8)	Absolute / Incremental	BiSS C / SSi (absolute) TTL / 1Vpp
 AR34		22 Bit	±10" *	Hollow Shaft	Absolute	BiSS C / SSi
AR42		Any number from 1 to 11 796 480	±10" *	....	Incremental	TTL
AR79	MOOG FMC Resolver	22 Bit	±10" *	Hollow Shaft (Ø27)	Absolute	BiSS C / SSi (Only with one optical chip)
AR90	Netzer "DS90"	22 Bit	±10" *	Hollow Shaft (Ø50)	Absolute	BiSS C / SSi (Only with one optical chip)
AR100	Netzer "DF100"	22 Bit	±10" *	Hollow Shaft (Ø57H7)	Absolute	BiSS C / SSi (Only with one optical chip)
AKW100		24 Bit	±10"	Hollow Shaft (Ø40H6)	Absolute	BiSS C / SSi
AKW150		25 Bit	±10"	Hollow Shaft	Absolute	BiSS C / SSi
Encoder-AN		Up to 22 Bit	±10" *	Hollow Shaft (Ø50)	Absolute	BiSS C / SSi

* Expected at optimal mechanical installation.

ANGLE ENCODERS

enertronic
PROYECTOS Y SUMINISTROS S.A.

MODEL		CROSS REFERENCE	NUMBER OF LINES*	ACCURACY (ARC. SEC)	SHAFT TYPE	OUTPUT SIGNALS
	A90H	Heidenhain RON 200 Series Fagor H-D90 Series	18.000	± 5	Hollow shaft w/ integrated stator coupling	11 uApp 1 Vpp TTL
	A110	Heidenhain ROD Series Fagor S-D90 Series	18.000	± 5	Solid shaft	11 uApp 1 Vpp TTL
	A110H	Heidenhain RON 200 Series	18.000	± 5	Hollow shaft w/ integrated stator coupling	11 uApp 1 Vpp TTL
	A170	Heidenhain ROD 700, 800 Series	18.000 / 36.000	± 2.5	Solid shaft	11 uApp 1 Vpp TTL
	A170H	Heidenhain RON 700 Series	18.000 / 36.000	± 2.5	Hollow shaft w/ integrated stator coupling	11 uApp 1 Vpp TTL
	A200H	Heidenhain RON 700, 800 Series	36.000	± 2	Hollow shaft w/ integrated stator coupling	11 uApp 1 Vpp TTL

*possible interpolation factor up to x100.