

ENCODER SELECTION GUIDE

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ROTARY ENCODERS	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)	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	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	Up to 8 bit for turret tool holder	± 120	Solid shaft	TTL, HTL
 A58 (including HE, HME, HE1)	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

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LINEAR ENCODERS		MEASURING LENGTH (MM)	ACCURACY ($\mu\text{M}/\text{M}$)	OUTPUT SIGNALS
	L18	70-2.040	$\pm 10; \pm 5; \pm 3$	\sim 11 uApp \sim 1 Vpp  TTL
	L18B	70-3.240	$\pm 10; \pm 5$	\sim 11 uApp \sim 1 Vpp  TTL
	L18T	70-1.240	$\pm 10; \pm 5$	\sim 11 uApp \sim 1 Vpp  TTL
	L23	250-20.000	$\pm 10; \pm 5; \pm 3$	 TTL
	LK24	70-3.240	$\pm 5; \pm 3$	SSI BiSS C FANUC α DRIVE-CLiQ
	L35	170-3.240	$\pm 5; \pm 3$	\sim 11 uApp \sim 1 Vpp  TTL
	L35T	170-3.240	$\pm 10; \pm 5; \pm 3$	\sim 11 uApp \sim 1 Vpp  TTL
	L37	140-3.240	$\pm 10; \pm 5; \pm 3$	\sim 11 uApp \sim 1 Vpp  TTL
	L50	3.240-30.040	± 10	\sim 11 uApp \sim 1 Vpp  TTL
	MT	Up to 50.000	± 20	\sim 1 Vpp  TTL HTL
	MK	Up to 50.000	± 35	SSI BiSS C CANopen

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
















TAILOR MADE ENCODER KITS	Resolution	Accuracy	SHAFT TYPE	TYPE	INTERFACE
 AR25	up to 20 Bit (absolute) any number from 1 to 802816 (TTL) 196 lines on disc (1Vpp)	$\pm 10''^*$	Hollow Shaft ($\varnothing 6H8$)	Absolute / Incremental	BiSS C / SSi (absolute) TTL / 1Vpp
 AR34	22 Bit	$\pm 10''^*$	Hollow Shaft	Absolute	BiSS C / SSi
 AR42	Any number from 1 to 11 796 480	$\pm 10''^*$	Incremental	TTL
 AR79	22 Bit	$\pm 10''^*$	Hollow Shaft ($\varnothing 27$)	Absolute	BiSS C / SSi (Only with one optical chip)
 AR90	22 Bit	$\pm 10''^*$	Hollow Shaft ($\varnothing 50$)	Absolute	BiSS C / SSi (Only with one optical chip)
 AR100	22 Bit	$\pm 10''^*$	Hollow Shaft ($\varnothing 57H7$)	Absolute	BiSS C / SSi (Only with one optical chip)
 AKW100	24 Bit	$\pm 10''$	Hollow Shaft ($\varnothing 40H6$)	Absolute	BiSS C / SSi
 AKW150	25 Bit	$\pm 10''$	Hollow Shaft	Absolute	BiSS C / SSi
 Encoder-AN	Up to 22 Bit	$\pm 10''^*$	Hollow Shaft ($\varnothing 50$)	Absolute	BiSS C / SSi

* Expected at optimal mechanical installation.

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ANGLE ENCODERS	NUMBER OF LINES*	ACCURACY (ARC. SEC)	SHAFT TYPE	OUTPUT SIGNALS
 A90H	18.000	± 5	Hollow shaft w/ integrated stator coupling	 11 uApp  1 Vpp  TTL
 A110	18.000	± 5	Solid shaft	 11 uApp  1 Vpp  TTL
 A110H	18.000	± 5	Hollow shaft w/ integrated stator coupling	 11 uApp  1 Vpp  TTL
 A170	18.000 / 36.000	± 2.5	Solid shaft	 11 uApp  1 Vpp  TTL
 A170H	18.000 / 36.000	± 2.5	Hollow shaft w/ integrated stator coupling	 11 uApp  1 Vpp  TTL
 A200H	36.000	± 2	Hollow shaft w/ integrated stator coupling	 11 uApp  1 Vpp  TTL

*possible interpolation factor up to x100.

Precizika Metrology has a long history of old traditions in the leadership of design and production of metrological equipment – rotary, angle, linear encoders and optical encoder gratings. The Lithuanian company has been in the industry for over 50 years and with this heritage comes both pride and great responsibility to continuously move forward, improve and evolve in order to satisfy the ever-changing industry needs. A huge part of time spent in the industry was dedicated to working with top-of-the-line original equipment manufacturing (OEM) companies, listening to their feedback and providing innovative solutions to a variety of diverse conundrums.

Consistent supply of high quality products and services that match or exceed the quality standards our customers expect and deserve is the main goal that drives us forward, constantly

investing in new projects, future proof equipment and bright minds. The ability to take advantage of accumulated know-how and to channel the experience provides us with a unique perspective and position in the market that opens new ways to innovate and provide industry defining product solutions.

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