

MTL rotary encoders are all based on space-saving design and available in many types from ultra-small types to high-resolution products.

Series name	Appearance	Туре	name	Features
ME series	A	MES -3- P Outside dimensions Resolution	₽ ₽ 5×9.6 64~1024	 The smallest model of ultra-small series. Square wave, Voltage output. Only 1024P/R with PST built-in PST multilication circuit.
	S.	MES-6-LIPC Outside dimensions Resolution	⊅ 7.5x10.5 100 to 500	 The smaller model of ultra-small series. A, B, and Z phase output. Open collector output.
		ME -9- PC Outside dimensions Resolution	0 13x20 100 to 1024 (16,000)	 Compactness, light weight. A, B, and Z phase output. Hollow-shaft type convenient for small motors. Option Sine wave With built-in PST ×2, ×4, ×8, ×16 multiplication circuit
		ME - <u>12- P</u> I Outside dimensions Resolution	20x20 100 to 2048 (32,000)	 Compactness, light weight. A, B, and Z phase output. Availability of hollow-shaft type convenient for small motors. Option Sine wave With built-in PST ×2, ×4, ×8, ×16 multiplication circuit
	Ø	ME	\$ 20x15	 Compactness, light weight. A, B, and Z phase output. Availability of 3 types of shaft shape, single-shaft types 2 and 24 and hollow-shaft type.
	6	ME_J-20-LJPI Outside dimensions Resolution	40 to 7200 (57,600)	 Thin and compact popular type. Availability of shaft shape to meet various fitting systems. Option Sine wave With built-in PST ×2, ×4, ×8, ×16 multiplication circuit

		ME_I-30-LIPL Outside dimensions Resolution MES-40-IP Outside dimensions Resolution	\$ 44x22 40 to 10800 (144,000)	 Thin and compact popular type. Availability of shaft shape to meet various fitting systems. Option Sine wave With built-in PST ×2, ×4, ×8, ×16 multiplication circuit Robust, general-purpose type. Hostile-environment and drip-proof specifications are also available. Load-resistance. Option Sine wave With built-in PST ×4, ×8, ×16 multiplication circuit
		ME -50- PE Outside dimensions Resolution	\$65x30 500 to 10800 172,800	 Thin and compact popular type. Availability of shaft shape to meet various fitting methods. With built-in PST ×2, ×4, ×8, ×16 multiplication circuit
		MEH-60-□P Outside dimensions Resolution	1 1 80 to 21600 345,600	 High resolution. Easy-to-fit thin type. Large hollow shaft of 30 in inside diameter. With built-in PST ×2, ×4, ×8, ×16 multiplication circuit
		MEH-85JP_ Outside dimensions Resolution	0 100x26 200 to 21600 345,600	 High resolution. Easy-to-fit thin type. Large hollow shaft of 36 in inside diameter. With built-in PST ×2, ×4, ×8, ×16 multiplication circuit
		MEH-130P Outside dimensions Resolution	2	 High resolution. Large hollow shafts of 60 and 75 in inside diameter. With built-in PST ×2, ×4, ×8, ×16 multiplication circuit
		MEH-180P_		High resolution.
		Outside dimensions	\$ 200x71	■3 power sources. ■Large hollow shaft of 90 in inside
		Resolution	36000 54000 (576,000)	diameter.
MGH series	HTL A COO INC	MGH-12-LL-E	f20×23	 Light weight, compactness. Modular type best suited for small motors. With CS signal
		dimensions Resolution	1024~8192	

	HTTL AN CRO DE	MGH-14-그-C Outside dimensions Resolution	∲18.9x20 100 to 300	
	0	MGH-20-LJ-E Outside dimensions Resolution	Ø 32x22.5 100 to 1200	
		MGH-30-LI-E Outside dimensions Resolution	Ø 44x21 100 to 2000	
MA series		MAS-10-256 Outside dimensions Resolution	<u>G</u> Ø13x15.5 256	 Ultra compact 8-bit absolute type Gray code output without reading error
		MA□-17-256 Outside dimensions Resolution	G Ø20x21 256 to 1024	 Ultra-small 8-bit absolute type. Availability of single-shaft (4 in diameter) and hollow shaft (2 in inside diameter). Gray-code output without reading error.
		MA	1 f32×24 256~4096	 Compact 12bit absolute The output codes are gray code, pure binary code, BCD code.
		MAD-36- Outside dimensions Resolution	\$ 46x30 256 to 16384	 Compact 8-bit absolute encoder. Robust, hostile-environment type. Availability of shaft shape to meet various fitting systems.

MXS series		MA -42- Outside \$\$52x30 dimensions 256 to 4096 MXS-36-L_L C6 Outside f46×55 dimensions 128 to 1024	 I2-bit absolute encoder. The output codes are gray code, pure binary code, and BCD code. Mechanical multiturn encoder with reduction gear Durable metal code disc Up to 64revolution
	3	MXS-42- Outside dimensions Resolution 128 to 4096	 Multiple-rotation absolute encoder High resolution, up to 12bit/revolution Mechanical multiturn encoder with reduction gear Up to 64revolution
SE series		SES-10- Outside dimensions Resolution 100 to 200	 This is adopted as a multi-functional sensor for detecting angle and movement of small-unit-type systems such as OA equipment, automatic vending machine, and card reader. With current consumption 10 to 12mA, approximate sine wave to sufficiently meet actual application can be obtained.
		SE_I-17-LII Outside dimensions Resolution 100 to 360	 This is adopted as a multi-functional sensor for detecting angle and movement of small-unit-type systems such as OA equipment, automatic vending machine, and card reader. With current consumption 10 to 12mA, approximate sine wave to sufficiently meet actual application can be obtained.
MLS series		<u>MLS-12-LL</u> LJ	 Smallest in the series: Outside dimensions 23 x 24 x 25 (H) Stroke: 250 mm Resolution: Selection from among 1, 0.2, 0.1, and 0.04 mm Lightweight: 60 g
		<u>MLS-30-[_]</u> _]	 Wire-typed linear scale, Absolute output. Minimum reading 0.02mm, 0.2mm *0.005mm, 0.05mm is possible with 4-multiplying circuits. Measuring range: 500mm, 1000mm. Also available is a set type with indicator.

		<u>MLS-50-□-</u> □	 Wire-type linear scale Minimum reading is 0.1mm Mesuring range are 2000mm,4000mm
MLA series		<u>MLA-17-□-</u> □	 Wire-typed linear scale, Absolute output. Smallest in the series: Outside dimensions 23 x 24 x 27.4 (H) Output 1,024(G,N)or 1,000(B) Main Applications: Robot Machine, small actuator, manipulator and etc.
		<u>MLA-30</u>	 Wire-type absolute linear scale Minimum reading is 0.088mm Mesuring range is 90mm
		<u>MLA-36</u>	 Wire-type absolute linear scale Minimum reading is 0.1mm Mesuring range is 1000mm
		<u>MLA-50-I_I_</u>	 Wire pulling linear absolute encoder Detection of absolute position does not need backup. Resolution/measuring range: 0.01/40 mm, 0.1/400 mm, 0.25/1000 mm, 0.5/2000 mm, 1/4000 mm
REH series	0	<u>REH-30-</u> <u>_</u> П	 Roller type encoder. Easy measuring. Minimum reading 0.1 to 1mm.
DC series		<u>DC-</u> D-	 Small and robust counter. Decimal point moving, dividing/multiplying possible.
MT series	4	MT-16S Outside dimensions 150x65x45	■In combination with ME-12PS, ME- 20PS or ME-30PS, division is made into 8 multiple and 16 multiple.
Series name		Type nam	e
Setting Option/ Coupling	Spring flange Flange coupling		

For the details of products, see the page of each product.

•You are requested to consult sales personnel of our company because the specifications, etc. may be changed for improvement without prior notice.

How to read type name



