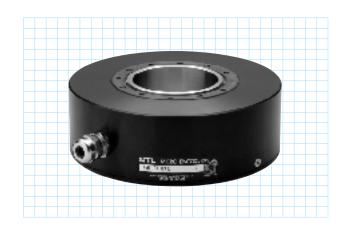
MEH-130 series [Square Wave/Incremental]

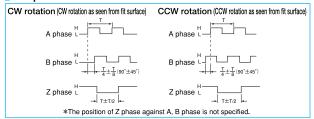


Outside dimensions MEH-130 %1,024 pulse or less 0.5 φ120 \$85 \$150 φ75₋ Cable length 1M 4-M5 depth 10 equal arrangement PCD=135 MEH-130PST 4-M5 depth 4 equal arrangement %4,500 pulse or more PCD=135 ⊕ $\phi 150$ Cable length 1M

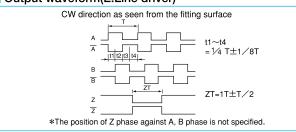
Specifications

Type name			MEH-130-			
ltem			Output circuit No entry=voltage output C=open collector output C4=open collector output DC24V E=line driver output			
Supply voltage/			DC5~12V ±10%			
Current consumption			DC24V±10%(option)			
Detection system			Incremental			
	Output pulse number		360 9,000 32,400 600 11,250			
	(Standard) [Pulse number/rotation]		1,024 20,250 4,500 25,000 5,000 28,125			
0	Output phase		A, B, Z phase			
Output	Output form		Square wave			
υŧ	Output capacity		Sink current: 20mA Residual voltage: 0.5V or less (at 10mA)			
	Maximum response frequency (response pulse number)		100kHz In case of voltage output, load resistance shall be 2.2kΩ. (Refer to the output circuit diagram.)			
	Output phase difference		A, B phase difference 90°±45° (T/4±T/8) Z phase T±T/2 (see Output Waveform)			
	Waveform rise/fall time		2μs or less (output cable 1m or less)			
Starting torque			50×10 ⁻³ N·m(500gf·cm) or less(no oil seal)			
	Allowable load of Radial		19.6N (2kgf)			
	shaft (electrical)	Thrust	9.8N (1kgf)			
Maximum allowable revolutions (mechanical)			2,000r/min			
Working ambient temperature/ humidity			0°C~60°C RH35%~90% no dewing			
Storing ambient temperature			−20°C~80°C			
Vibration resistance			Durability 55Hz, double amplitude 1.5mm 2 hours each in X, Y, and Z directions			
Impact resistance			Durability 500m/s² (about 50G) 3 times each in X, Y, and Z directions			
Cable			Outside diameter \$\phi 6.5 14-core vinyl wire Insulated shield cable (length 1m)			
Mass			3kg			

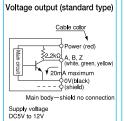
Output waveform

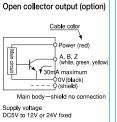


Output waveform(E:Line driver)



Output circuit diagram





+5VDC (red)
A, B, Z
(white, green, yellow)
A, B, Z (white/black, green/black, yellow/black) 26C31 0V(black) --- (shield) — — — - Q (shield)
Main body—shield no connection
Supply voltage DC5V
Current consumption 150mA or less
Note: If the transmission distance is
long, if should be so considered that the
specified voltage occurs at the input portion of the encoder cable end.

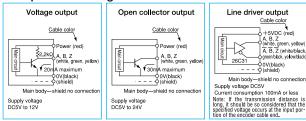
Line driver output (option)

Cable colo

A capacitor $(0.1 \mu F)$ is connected between 0V and FG (frame ground).

S	Specifications Built-in multiplication circuit (X2·X4·X8·X16) NEW					
	Supply voltage	e	Voltage:DC5V-5%~12V+10% Open collector:DC5V-5%~24V+10% Line driver:DC5V±5%			
	Current consu	mption	150mA or less (under no load)			
	Detection syst	em	Incremental			
Output	Output pulse number (Standard) [Pulse number/rotation]		EX 32,400×2 (64,800) 32,400×4 (129,600) 32,400×8 (259,200) 32,400×16 (518,400)			
	Output phase		A, B, Z phase			
	Output form		Square wave			
	Maximum response frequency		Line driver output:75kHz× (by multiplication) Voltage output:00en collector output:100kHz			
	Output phase difference		See the diagram below.			
	Starting torqu	Э	50×10 ⁻³ N·m (500gf·cm) or less			
	Allowable load of	Radial	19.6N (2kgf)			
	shaft (electrical)	Thrust	9.8N (1kgf)			
	Maximum allowal (mechanical)	ole revolutions	2,000r/min			
	Working ambien humidity	t temperature/	0°C∼60°C RH35%∼90% no dewing			
	Storing ambient	temperature	-20°C~80°C			
	Vibration resis	tance	Durability 55Hz, double amplitude 1.5mm 2 hours each in X, Y, and Z directions			
	Impact resista	nce	Durability 500m/s² (about 50G) 3 times each in X, Y, and Z directions			
	Cable		Outside diameter			
	Mass		3kg			

Output circuit diagram



A capacitor $(0.1\,\mu\text{F})$ is connected between 0V and FG (frame ground).

Output waveform

