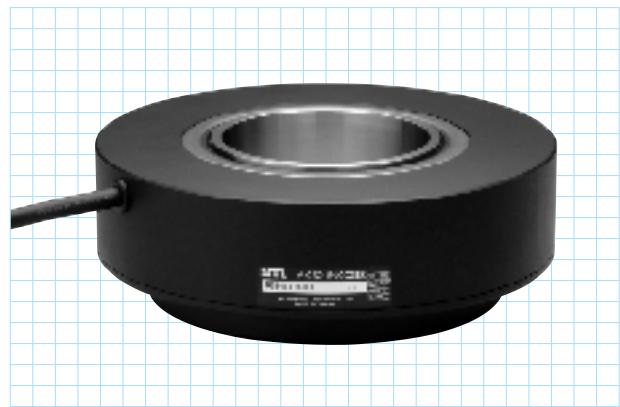
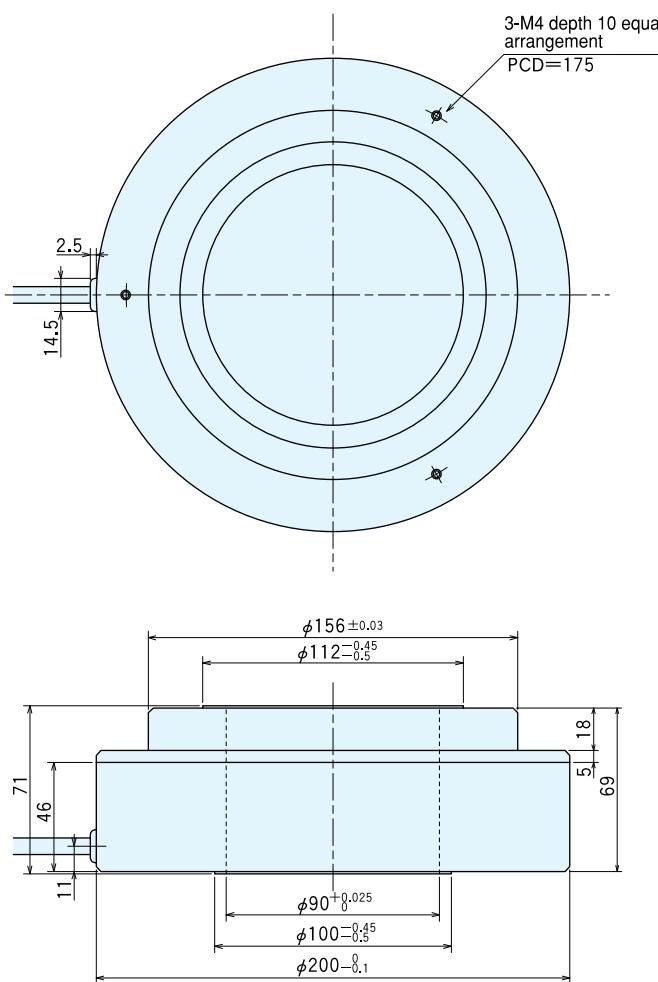


MEH-I80 series

[Square Wave/Incremental]



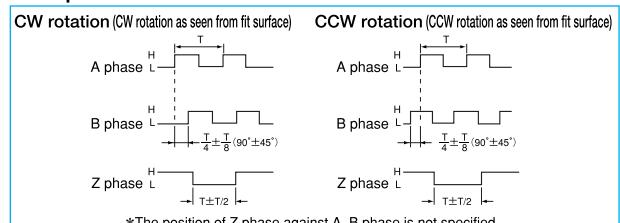
Outside dimensions



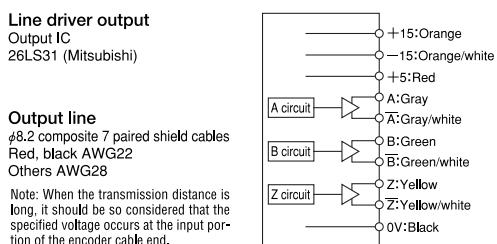
Specifications

Type name	MEH-180-□-□				
Item	Pulse number				
Supply voltage/ Current consumption	DC5~12V ±10% DC24V±10% (option) Line driver:DC5V ±5%				
Detection system	Incremental				
Output pulse number (Standard) [Pulse number/rotation]	36,000 54,000				
Output phase	A, B, Z phase				
Output form	Square wave Line driver output				
Output capacity	V _{OL} =0.5Vmax V _{OH} =2.5Vmin I _O =±20mA				
Maximum response frequency (response pulse number)	300kHz				
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	0.5μs or less (output cable 1m or less)				
Starting torque	80×10 ⁻³ N·m(800gf·cm) or less(no oil seal)				
Allowable load of shaft (electrical)	<table border="1"> <tr> <td>Radial</td> <td>29.4N (3kgf)</td> </tr> <tr> <td>Thrust</td> <td>19.6N (2kgf)</td> </tr> </table>	Radial	29.4N (3kgf)	Thrust	19.6N (2kgf)
Radial	29.4N (3kgf)				
Thrust	19.6N (2kgf)				
Maximum allowable revolutions (mechanical)	300r/min				
Working ambient temperature/ humidity	0°C~50°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/s ² (about 50G) 3 times each in X, Y, and Z directions				
Cable	Outside diameter φ6.5 14-core Insulated shield cable (length 1m)				
Mass	5kg				

Output waveform

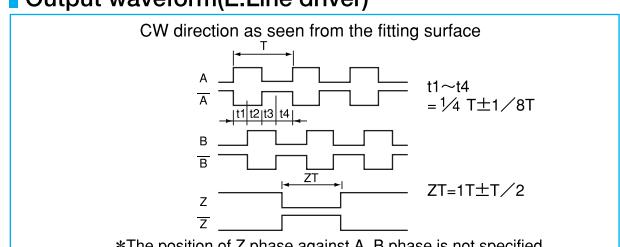


Output circuit diagram



A capacitor (0.1μF) is connected between 0V and FG (frame ground).

Output waveform(E:Line driver)

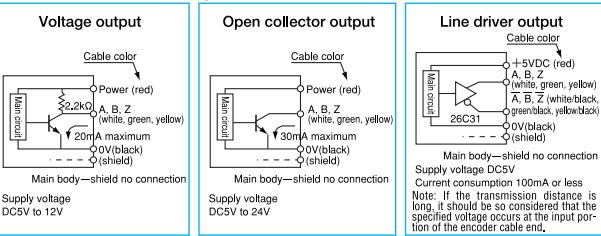


*The position of Z phase against A, B phase is not specified.

Specifications Built-in multiplication circuit (X2・X4・X8・X16) **NEW**

Supply voltage	Voltage:DC5V~12V Open collector:DC5V~24V Line driver:DC5V±5%
Current consumption	150mA or less (under no load)
Detection system	Incremental
Output pulse number (Standard) (Pulse number/rotation)	EX 36,000×2 (72,000) 36,000×4 (144,000) 36,000×8 (288,000) 36,000×16 (576,000)
Output phase	A, B, Z phase
Output form	Square wave
Maximum response frequency	Line driver output:75kHz× (by multiplication) Voltage output・Open collector output:100kHz
Output phase difference	See the diagram below.
Starting torque	80×10 ⁻³ N・m (800gf・cm) or less
Allowable load of shaft (electrical)	Radial 29.4N (3kgf) Thrust 19.6N (2kgf)
Maximum allowable revolutions (mechanical)	300r/min
Working ambient temperature/humidity	0°C~50°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/s ² (about 50G) 3 times each in X, Y, and Z directions
Cable	Outside diameter φ6.5 14-core vinyl wire Insulated shield cable (length 1m)
Mass	5kg

Output circuit diagram



A capacitor (0.1μF) is connected between 0V and FG (frame ground).

Output waveform

