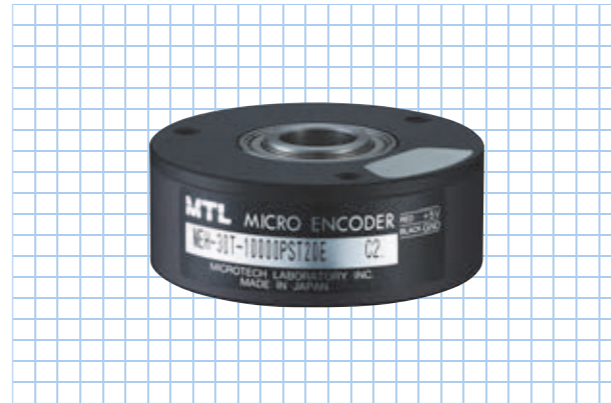


# MEH-30T series

[Square Wave/Incremental]

- External  $\phi 44$
- 18mm-high thin incremental encoder (hollow axle)

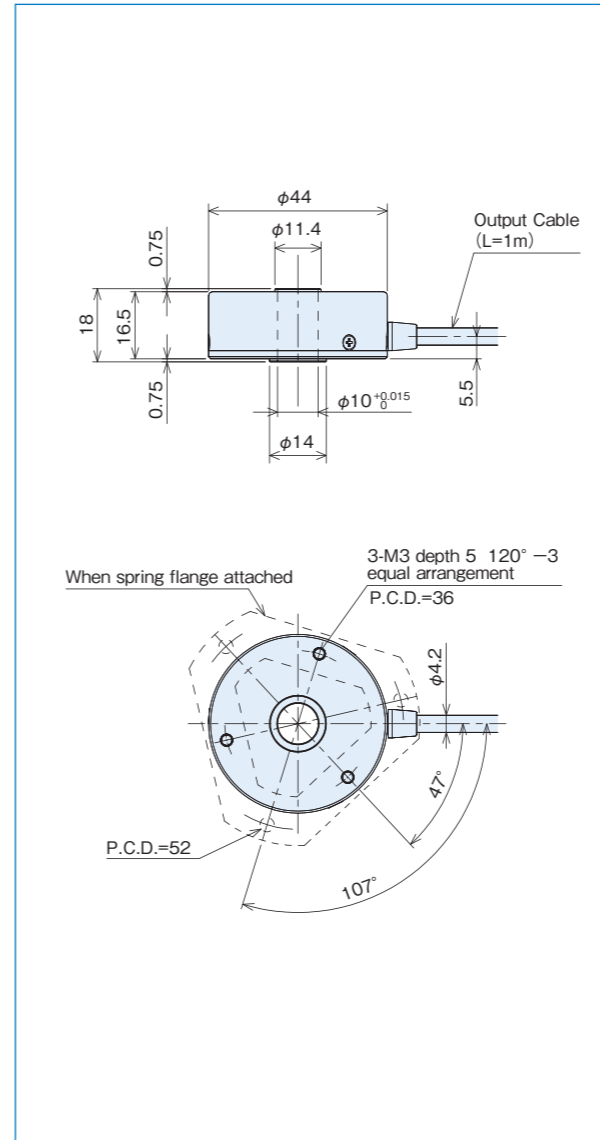


## Specifications

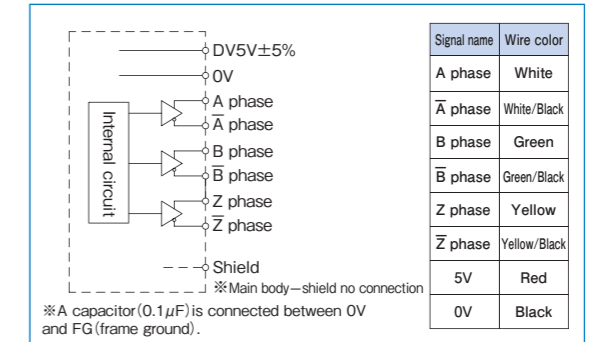
Type name	MEH-30T- <input type="text" value="10000"/> PST <input type="text" value="20"/> E
Item	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Pulse number</p> <p><input type="text" value="10000"/></p> </div> <div style="text-align: center;"> <p>By multiplication (<math>\times 2, 4, 5, 8, 10, 16, 20</math>)</p> <p><input type="text" value="20"/></p> </div> </div>
Detection system	Incremental
Output phase	A, $\bar{A}$ , B, $\bar{B}$ , Z, $\bar{Z}$ phase
Output form	Square, Line driver output
Output pulse number (P/R)*	20000 (10000 $\times 2$ ), 40000 (10000 $\times 4$ ) 50000 (10000 $\times 5$ ), 80000 (10000 $\times 8$ ) 100000 (10000 $\times 10$ ), 160000 (10000 $\times 16$ ) 200000 (10000 $\times 20$ )
Output	Phase difference between neighboring A/B phases: $T/4 \pm T/8$ Waveform ratio of 1T: $T \pm 0.3t$ Z phase width: $T \pm T/2$ (Synchronized with 1T of B phase)
Supply voltage	DC5V $\pm 5\%$
Current consumption	100mA or less
Maximum response frequency	50kHz $\times$ division ratio (2, 4, 5, 8, 10, 16, 20)
Output capacity	Output current ( $I_o$ ): $\pm 20$ mAmax. Output voltage $V_{ol}$ : 0.5Vmax. $V_{oH}$ : 2.5Vmin.
Maximum allowable revolutions	6000r/min
Working ambient temperature/humidity	$-10^\circ\text{C} \sim +70^\circ\text{C}$ RH35%~90% no dewing
Storing ambient temperature	$-20 \sim +80^\circ\text{C}$
Vibration resistance	Durability 55Hz, double amplitude 1.5mm 2 hours each in X, Y, and Z directions
Impact resistance	Durability 500m/s <sup>2</sup> (about 50G) 3 times each in X, Y, and Z directions
Cable	Outside diameter $\phi 4.2$ 8-core vinyl wire AWG28 Insulated shield cable (length 1m)
Mass	140g (excluding cable)

\*Output pulse numbers other than 10000P/R are scheduled to be added in the near future.

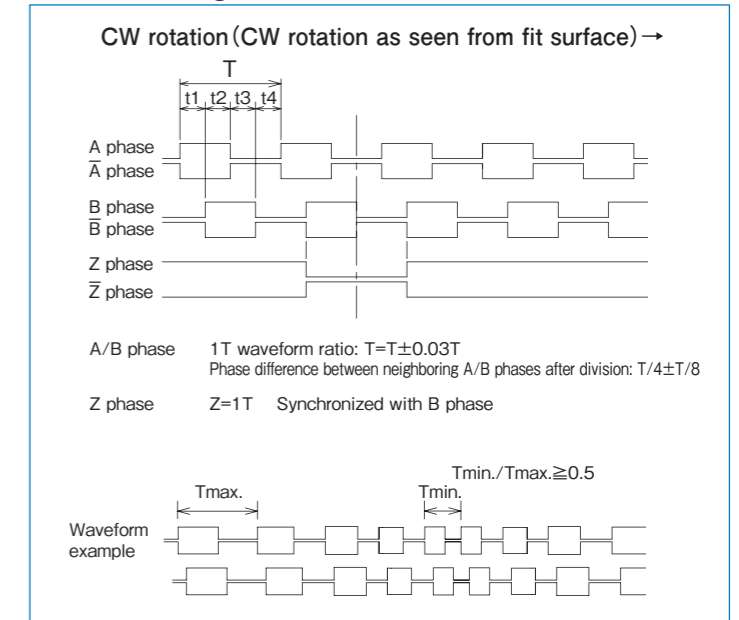
## Outside dimensions



## Output circuit diagram and connection diagram



## Connection diagram



## Spring flange MEH-30 (Option)

