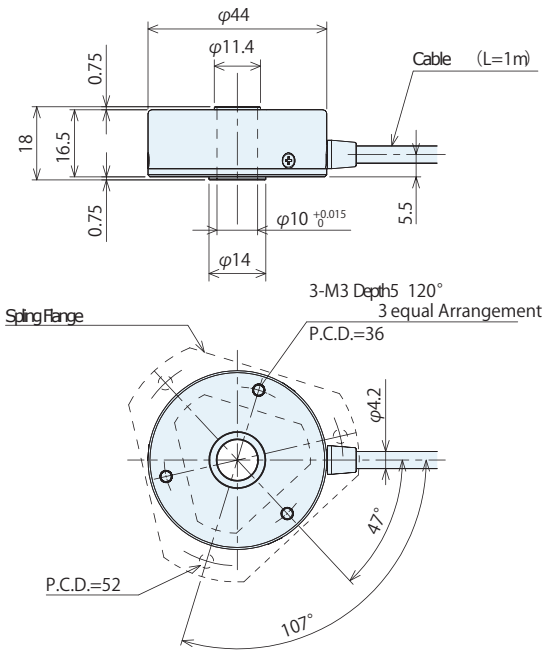
MEH-30T series

[Square Wave / Incremental]

- Diameter φ44
- Height18mm / Thin type Incremental Encoder (Hollow type)

NEW

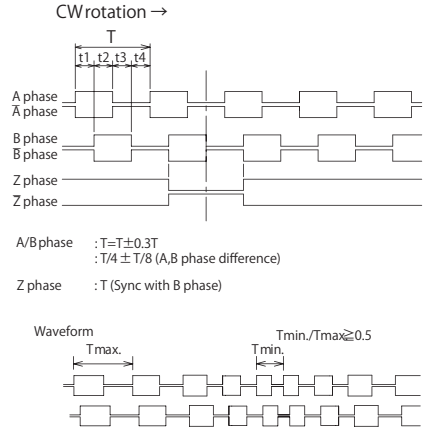
Outside Dimensions



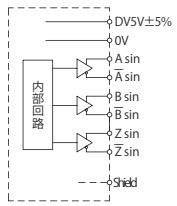
Specification

Type name / Item	MEH -30T - 10000 PST 20 E (Pulse number / Multiplication (×2,4,5,8,10,16,20))
Detection system	Incremental
Output Phase	A, $\overline{A}$, B, $\overline{B}$, Z, $\overline{Z}$phase
Ourput form	Square wave, Line driver output
Ourput pulse number (P/R) ※	20000（10000×2）40000（10000×4） 50000（10000×5）80000（10000×8） 100000（10000×10）160000（10000×16） 200000（10000×20）
Output Phase difference	A, B phase difference :T/4±T/8 Ratio of 1Twave :T±0.3t Zphase :T±T/2（Sync with B phase/1T）
Supply voltage	DC5V±5%
Current consumption	80mAor less
Response frequency	50kHz× (by multiplication)(2,4,5,8,10,16,20)
Output Capacity	Output Current (Io) : ±20mAmax. Output Voltege Vol: 0.5Vmax. VoH: 2.5V min.
Maximum revolutions	6000rpm
Moment of Intertia	1.8×10 $^{-6}$kg•m^2 or less
Operation Temp/Humidity	−10℃～+70℃／35%～90%RH （no dewing）
Storing temperature	−20～+80℃
Vibration resistance	55Hz double amplitude 1.5mm 2hours each in X,Y and Z directions
Impact resistance	Durability about 50G, 3times each in X, Y and Z directions
Cable	Outside diameter φ4.2 8-core shield Cable (1m)
Weight	140g (Include 1m Cable)

Wiring



Output circuit diagram / wiring



Signal	Color
A	White
Ā	Black/White
B	Green
B̄	Green/Black
Z	Yellow
Z̄	Yellow/Black
5V	Red
0V	Black

※Main body- Shield no connection
※A capacitor (0.1 μF) is connected between 0V and FG (frame ground).