



PART NUMBER: MEH9

DESCRIPTION: incremental encoder

ELECTRICAL SPECIFICATIONS

| | |
|-------------------------|----------------------------------------------------------------------------------|
| output waveform | Square Wave |
| output signals | A, B, Z phase |
| current consumption | ≤40 mA |
| frequency response | 0~100 KHz |
| output phase difference | A, B phase difference 90° ± 45° (T/4±T/8) Z phase T±T/2 (see output waveform) |
| supply voltage | 5 V dc ± 10% |
| output resolution (ppr) | 100, 200, 256, 300, 360, 500, 1000 |
| waveform rise/fall time | 2μ or less (outout cable 140mm or less) |

MECHANICAL SPECIFICATIONS

| | | | |
|----------------------|---------|----------------------------------------------------|--------------------------|
| max shaft load, | radial: | 1.9N (200gf) | 0.98N (100gf) (1000 ppr) |
| | axial: | 1.9N (200gf) | 0.98N (100gf) (1000 ppr) |
| starting torque | | 1 x 10 ⁻³ N·m (10 gf·cm max.) | |
| max rotational speed | | 6000 RPM | |
| shock resistance | | 500 m/s ² (50G), 3 times each on XYZ | |
| vibration proof | | 55 Hz, double amplitude 1.5mm, 2 hours each on XYZ | |
| weight | | 10g (with 140mm cable) | |
| cable | | Vinyl wire (AWG 30) 140mm cable | |

ENVIRONMENTAL SPECIFICATIONS

| | |
|----------------|---------------------------|
| operating temp | 0° to +60° C |
| storage temp | -20° to +80° C |
| humidity | RH 35%~90% non collecting |

ORDERING INSTRUCTIONS

MEH9 - XXXPX

Resolution (PPR):
 100 = 100 PPR 300 = 300 PPR
 200 = 200 PPR 360 = 360 PPR
 256 = 256 PPR 500 = 500 PPR
 1000 = 1000 PPR

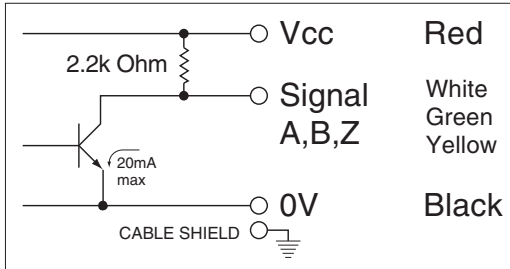
Output Circuit:
 "no entry" = TTL voltage output
 C = Open collector output

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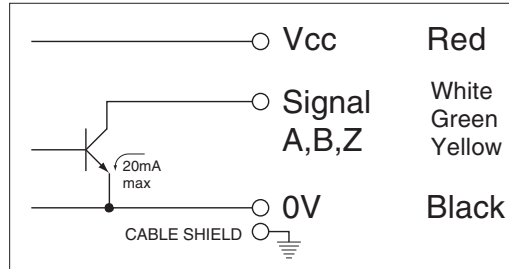
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CIRCUIT CONNECTIONS

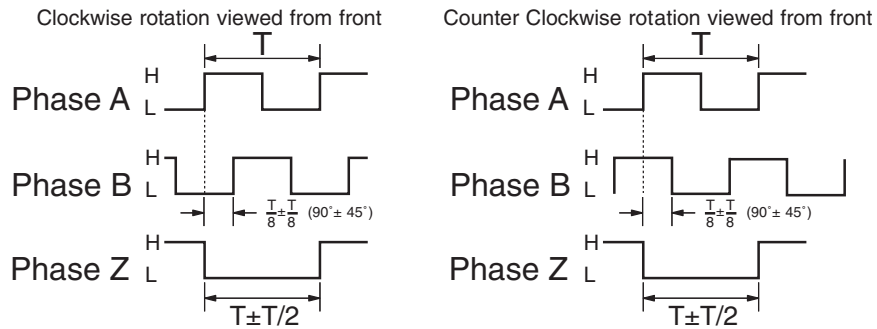
Voltage Output



Open Collector Output



OUTPUT WAVEFORM



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

