

## ※ ISM8060 SERIES

Suitable for manual pulse input type such as NC or milling machinery

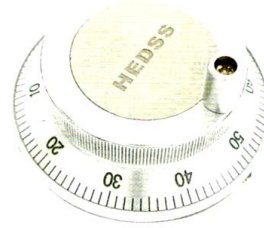
High reliability, terminal connection type

Power supply: 5V DC, 12V DC, 24V DC

Customer's logo is available

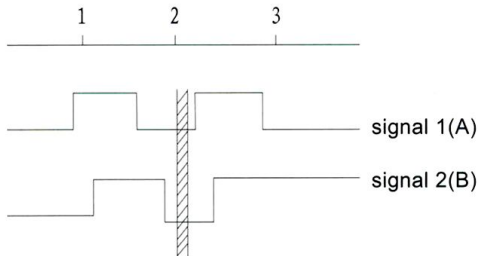
### Application:

Industrial tooling machinery



### Output waveform

90° Output phase difference, CW rotation  
(CW rotation as seen from fit surface)



A leads B clockwise when viewing the encoder shaft end.

Click-stop position falls within hatched area.

### TECHNICAL SPECIFICATIONS

| ELECTRICAL SPECIFICATIONS       |   |
|---------------------------------|---|
| Output wave                     | Square wave   |
| Output signals                  | A, B (Line driver output A, $\bar{A}$ , B, $\bar{B}$ phase) |
| Current consumption             | $\leq 100\text{mA}$   |
| Response Frequency              | 0~20KHz   |
| Output phase difference         | $90^\circ \pm 45^\circ$                                     |
| Supply voltage                  | 5V DC, 12V DC   |
| Signal level                    | $V_H \geq 85\%V_{CC}$ , $V_L \leq 0.3V$                     |
| Number of pulses                | 100<br>(Other number of pulse available on request)         |
| Output circuit                  | Open collector NPN, Push pull, Line driver, Voltage         |
| MECHANICAL SPECIFICATIONS       |   |
| Signal position                 | 4 kind  |
| Speed without sealing           | 500rpm  |
| Starting torque without sealing | $\leq 1.0 \times 10^{-2}\text{Nm}$ (+25°C)                  |
| Shock resistance                | 980m/s <sup>2</sup> , 6ms, 2 times each on XYZ              |
| Vibration proof                 | 50m/s <sup>2</sup> , 10~200Hz, 2 hours each on XYZ          |
| Working life                    | MTBF $\geq 10000\text{h}$ (+25°C, 2000rpm)                  |
| Weight                          | Appr. 275g  |
| ENVIRONMENTAL SPECIFICATIONS    |   |
| Working humidity                | 30~85% (No condensation)                                    |
| Storage temperature             | -30°C~85°C  |
| Working temperature             | -10°C~70°C  |
| Protection class                | IP54  |

### Terminal assignment

| Code                 | 1   | 2  | 3     | 4             | 5     | 6             |
|----------------------|-----|----|-------|---------------|-------|---------------|
| Line driver output   | +5V | 0V | SIG A | SIG $\bar{A}$ | SIG B | SIG $\bar{B}$ |
| Other Output circuit | +5V | 0V | SIG A | SIG B         | -     | -             |

### Ordering code

|         |   |                 |                  |                |   |                |                |
|---------|---|-----------------|------------------|----------------|---|----------------|----------------|
| ISM8060 | — | 002             | 100              | B              | — | 24             | C              |
| Series  |   | Sequence Number | Number of Pulses | Output Signals |   | Supply Voltage | Output Circuit |

Series: ISM8060, Number of pulses: 100 p/r, Output signals: AB, Supply voltage: 24V DC, Output circuit: Open collector NPN,  
Record: ISM8060-002-100B-24C

### Dimensions

