Handy Manual Pulse Generator

HT Series

Outline

HT series are easy-to-handle and compact Handy MPGs which put a premium on safety with 3-position enabling switches and emergency stop buttons.

Features

- Ergonomically designed and compact to be held with one hand
- 3-position (off-on-off) enabling switch available on either side
- Upper part is free to design and allows various kinds of switches (including emergency stop button) to be set
- RoHS compliant
- On the middle part: either MR8A - the rotary switch series or MR8C - the digital code switch series selectable
- Strong plate magnets available on back side (as option)
- Various types of curl cords provided along with connectors of all sorts at your request

Specifications

1. Body

<table>
<thead>
<tr>
<th>Dimension</th>
<th>170 × 80 × 39 (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED light</td>
<td>DC24V Green</td>
</tr>
<tr>
<td>Enabling switches</td>
<td>Available on both sides</td>
</tr>
<tr>
<td>Logo</td>
<td>Logo available on the wheel cover</td>
</tr>
</tbody>
</table>

2. Mechanical specifications

2.1 Rotary Encoder Unit

- Output Voltage: DC5V±10%, DC12V±10% or 12~24V
- Wheel: 100 clicks / rotation, 100 pulses or 25 pulses per rotation
- Rotational Durability: Over 1,000,000 times
- Output Waveform

1) Turning the shaft clockwise would generate the signal A when the signal B outputs a low voltage (0);  
2) Rotating the shaft counter-clockwise would generate the signal A when the signal B outputs a high voltage (1);

2.2 Selector Switches

- MR8A (rotary switch) 25V15mA (AC/DC)  
- MR8C (code switch) 15V10mA (AC/DC)  
* See MR8A/MR8C catalog for more details

3. Curl/Straight Cords

- Curl Cord: 19/25-conductor shielded cable  
  19-conductor: select from 2m, 3m, 4m, 5m  
  25-conductor: select from 3m, 5m  
  (We will select either 19 or 25-conductor in accordance with required functions)  
  For further details, please see the catalogues for curl cords

- Straight Cord: Also available

5. Connector Unit

- Connector: Driproofed connector to be attached on the end of the cord optionally provided (NRW-2424-PM8/NRW-2424-RF)

Warranty

- 1 year from the date of shipment.

* See RE45B catalog for more details
Dimensions (mm)

HT Unit with curl cord

※ This drawing is an example, it may differ according to number of switches etc.

Original Holder

Material: SPCC
Cathodic Electrodeposition Coating
H T series Order Sheet

(Print out this page for sending orders.)

We'll hand in to you a drawing in accordance with your order. The drawing shall be approved before starting in on production.

1) Select one from each spec table and fill blank spaces with "O".

| Pulses/Rev. | 100PPR | 25PPR |

*25PPR and yet 100 Clicks/Revolution

Axis Selector/Multiplication Selector Switches
- MR8C type (Gray code switch)
- MR8A type (Selection switch)

Indications for Axis Selector (left)
- e.g. OFF, X, Y, Z, 4, 5

Indications for Multiplication Selector (right)
- e.g. \( \times 1, \times 10, \times 100 \)

Curl Cord Length
- 2m Curl Cord (for only 19-conductor cord)
- 3m Curl Cord
- 4m Curl Cord (for only 19-conductor cord)
- 5m Curl Cord

* We will select either 19-conductor cord or 25-conductor cord to cover your requested specs

Waterproofed Connector (for curl cord)
- None
- Male connector (NRW-2424-PM8)
- Female connector (NRW-2424-RF)

* Fill in both spaces to order both connectors.

2) Other options

Other options to request
- (e.g.)
  - Switches with LED illumination \( \times 2 \)
  - 2 contact selector switch \( \times 1 \)

<table>
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<th>Logo on the dial</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
</tr>
<tr>
<td>with &quot;TOSOKU&quot; logo</td>
</tr>
<tr>
<td>with an original logo ( )</td>
</tr>
</tbody>
</table>

3-Positions Enabling Switch (contacts)
- None
- One on the left ( )
- On both sides ( )

* Assigned contacts should be 2 or less for normally open (NO) and 2 or less for normally closed (NC).

(2A2B maximum.)

Emergency Switch (contacts)
- None
- Mounted ( )

* 1 for (NO), 4 for (NC) maximum (1A/4B). Maximum of 4 contacts in total (1A3B or 4B).

Magnet on the backside
- None
- Mounted

Power Supply | Output
---|---
5V | 5V (330Ω Pull Up)
5V | Open Collector
5V | (for Line Driver)
12V | 5V (2.2kΩ Pull Up)
12V | 12V (2.2kΩ Pull Up)
12V | Open Collector
12V | for Photocoupler
24V | (Open Collector)

* Transistor will be "OFF" at every clicked positions.
  (For other open collector output models, transistors will be "ON" at every clicked positions.)

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