Handy Manual
Pulse Generator
HR Series

Outline
HR series provide you comfort in long time use and safety with various options of switches.

Features

● Ergonomically designed to be held with one hand
● 3-position (off-on-off) switch available on both sides
● RoHS compliant (box/cord)
● Upper part is free to design and allows various kinds of switches (including emergency stop button) to be set
● HR series also provide you various line-up of switches to be set on the middle part: DP - the digital code switch series, RS400 - the rotary switch series etc.
● Strong plate magnets available on back side. (optional)
● Various types of curl cords provided along with connectors by all sorts of your request

Specifications

1. Body
- Dimension: 190×100×50.5 (mm)
- Enabling Switch: Available on both sides
- Other Features: Logo available on the wheel cover

2. Mechanical specifications
2.1 Rotary Encoder Unit
- Output Voltage: DC5V±10%, DC12V±10%
- 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
- 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

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

4. Connector Unit
- Connector: Dripproofed connector to be attached on the end of the cord optionally provided

Warranty
- 1 year from the date of shipment.
HR Unit with curl cord

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

Dimensions (mm)

Length (as reference):
- for 2m (460mm) *
- for 3m (690mm) *
- for 4m (920mm) *
- for 5m (1080mm) *
*19 conductors only

Material: SPCC
Black Chromate
HR 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".

<table>
<thead>
<tr>
<th>Puls/Rev.</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>100PPR</td>
<td>5V (330Ω Pull Up)</td>
</tr>
<tr>
<td>25PPR</td>
<td>5V Open Collector</td>
</tr>
<tr>
<td>5V (for Line Driver)</td>
<td></td>
</tr>
<tr>
<td>12V 5V (2.2kΩ Pull Up)</td>
<td></td>
</tr>
<tr>
<td>12V 12V (2.2kΩ Pull Up)</td>
<td></td>
</tr>
<tr>
<td>12V 12V (Open Collector)</td>
<td></td>
</tr>
<tr>
<td>24V for Photocoupler</td>
<td></td>
</tr>
<tr>
<td>24V (Open Collector)</td>
<td></td>
</tr>
</tbody>
</table>

* 25PPR and yet 100 Clicks/Revolution

Axis Selector/Multiplication Selector Switches
- Gray code switch
- Binary code switch
- Selection switch

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

Indications for Multiplication Selector (right)
- e.g. x1, x10, x100

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 x 2
- 2 contact selector switch x 1