# Handy Manual Pulse Generator





### Outline

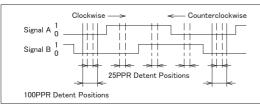
HR series provide you comfort in long time use and safety with various options of switches.

### **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 emergencystop 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 puluse or 25 pulses per rotation
Rotational Durability	Over 1,000,000 times
Output Waveform	
) Turning the shaft clockwise woul outputs a low voltage (0);	d generate the signal A when the signal B
) Rotating the shaft counter-clockw signal B outputs a high voltage (1)	<i>r</i> ise would generate the signal A when the ;



2.2 Selector Switches

\* See RS400/DP pages for details

3. Curl/Stra	ight 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. Connecto	or Unit

Dripproofed connector to be attached on the end of the

#### Warranty

Connector

• 1 year from the date of shipment.

cord optionally provided

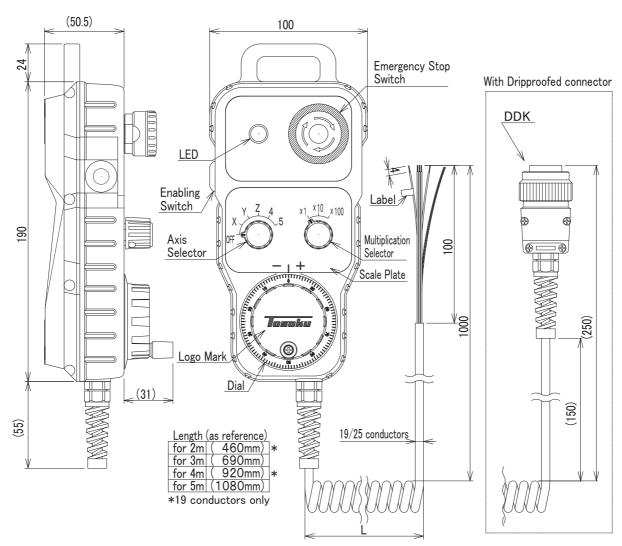
\* See RE45B page for details

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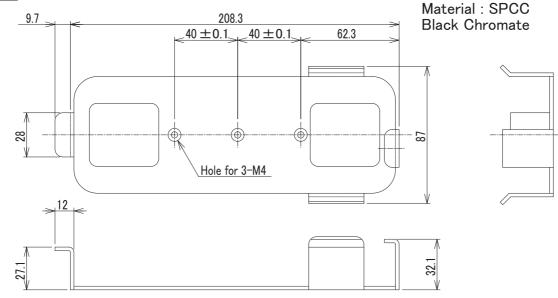
## **Dimensions (mm)**

HR Unit with curl cord

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



#### Original Holder



## H R 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.

e.g.

1) Select one from each spec table

and fill	blank	<u>spaces</u>	with	"O".
-	10			

Pulses/Rev.
100PPR
25DDD

\*25PPR and yet 100 Clicks/Revolution

Power Supply		Output
	5V	5V (330 <b>Ω</b> Pull Up)
	5V	Open Collector
	5V	(for Line Driver)
	12V	5V(2.2k <b>Ω</b> Pull Up)
	12V	12V(2.2k <b>Ω</b> Pull Up)
	12V	Open Collector
	12V-	for Photocoupler
	24V	(Open Collector)
* T.		

\* Transistor will be "OFF" at every clicked positions.

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

Logo on the dial	
None	
with "TOSOKU" logo	
with an original logo(	

3-P	ositions Enabling Switch (co	ontacts)
	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.)

E	Emergency S	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

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

Indications for Axis Selector (left) OFF, X, Y, Z, 4, 5

Indications for Multiplication Selector (right) ×1, ×10, ×100 e.g.

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 25conductor cord to cover your requested specs

	Waterproofed Connector (for curl cord)
	None
	Male connector (EBSP2119MG-D, DDK)
	Female connector (EBSP2119FGS-D, DDK)
* <b>Г</b> :П	Line both and a set to evaluate both a service stars

Fill in both spaces to order both connectors.

### 2) Other options

