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
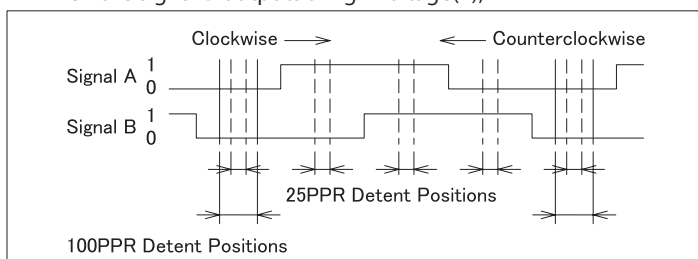
Specifications

1. Body

Dimension	170×80×39(mm)
LED light	DC24V Green
Enabling switches	Available on both sides
Logo	Logo available on the wheel cover

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);

Clockwise ⟶   ⟵ Counterclockwise

Signal A $\frac{1}{0}$

Signal B $\frac{1}{0}$

25PPR Detent Positions

100PPR Detent Positions

* See RE45B catalog for more details

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

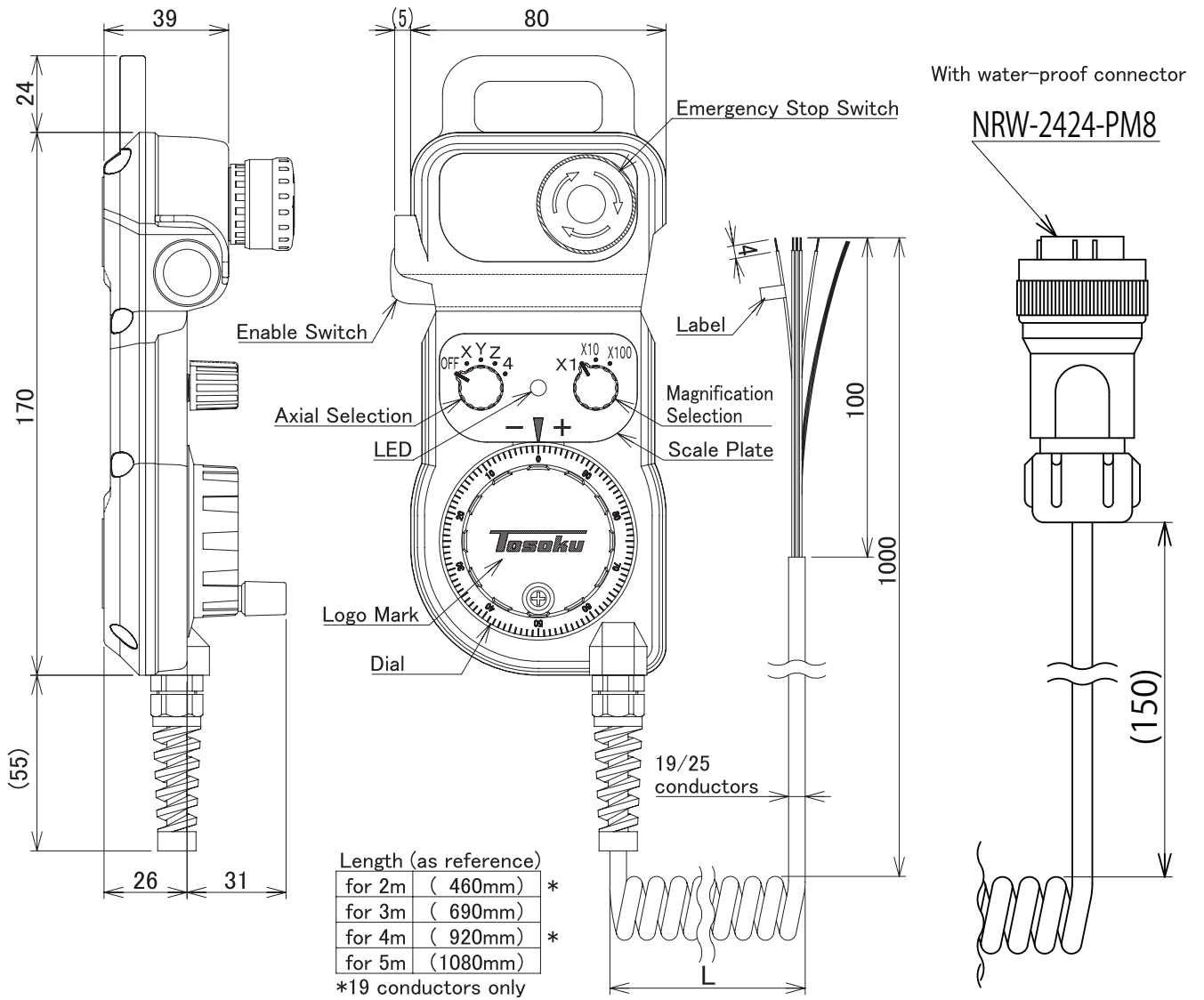|	
Connector	Dripproofed connector to be attached on the end of the cord optionally provided (NRW-2424-PM8/NRW-2424-RF)

Warranty

- 1 year from the date of shipment.

Dimensions (mm)

HT Unit with curl cord

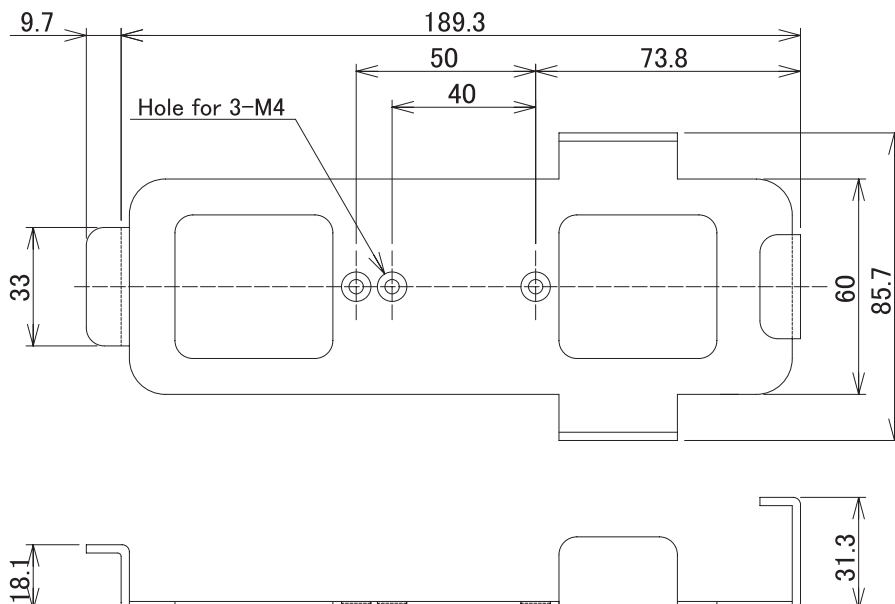※ This drawing is an example, it may differ according to number of swithes etc.

Emergency Stop Switch

Enable Switch

Axial Selection

LED

Logo Mark

Dial

Label

Magnification Selection

Scale Plate

19/25 conductors

Length (as reference)		
for 2m	(460mm)	*
for 3m	(690mm)	
for 4m	(920mm)	*
for 5m	(1080mm)	

*19 conductors only

With water-proof connector

NRW-2424-PM8

Original Holder

Material : SPCC
Cathodic Electrodeposition Coating

Hole for 3-M4

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 "○".

Pulses/Rev.	
	100PPR
*	25PPR

*25PPR and yet 100 Clicks/Revolution

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-24V	for Photocoupler （Open Collector）

* 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-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

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.	×1, ×10, ×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 x 2 2 contact selector switch x1