

# Series EHDW/Pendant Hand-held



US \$830.00  
S.R.P.  
List Price

## FEATURES

- CNC Controls for Fanuc, Mitsubishi, All others
- Multiplier x1, x10, x100 and axis selector SW's
- 5v TTL outputs (Point to point)
- IP 65, NEMA 4 enclosure protection
- Std. 10 ft. extended spiral cable
- Amp CPC Size 17 or Size 23 connector kit available as options
- John Ford replacement - 4,5 axis SW with Enable SW available
- Centroid Part # 10808, 5v TTL with 5 axis, CNC10 System, CPU10 MPG's CNC Control for Mills
- Centroid Part # 11069, 5v TTL with 3 axis, CNC11 System & Vice-versa, MPU11 MPG's CNC Control for Lathes
- Circular Plastic Size 17 & Amphenol Alloy Size 24 Connector Kits

## SPECIFICATIONS

### Electrical

Outputs	TTL Voltage Output for FANUC
Pulse per Revolution	100 PPR
Supply Voltage	5 v±0.25 v dc
Output Voltage (VH)	≥4.0 v
Output Voltage (VL)	≤0.5 v
Current Requirement	≤60 mA (No Loading)
Sink Current	≤20 mA
Output Capacity	Sync. Current: 20 mA, Residual Voltage: ≤0.5 v
Phase Difference	Quadrature Square Wave A & B: 90°±45° (T/4±T/8)
Rise/Fall Time	≤2 μs
Frequency Response	0-10 kHz
Insulation Resistance	20 MΩ At 500 v dc Megger (Circuit-Body)
Spiral Cable	10 ft. extended, 21/17 pol., 22-24 AWG

### Mechanical

Dial Rotating Speed	500 r/min.-Max., 200 r/min.-Normal (Continuous)
Starting Torque	8.34 ozf-in (600 gf-cm) at 25°C
Rotational Life	10x 6 bits turns at ≤ 200 rpm
Weight	3 lbs (1.5 kg)

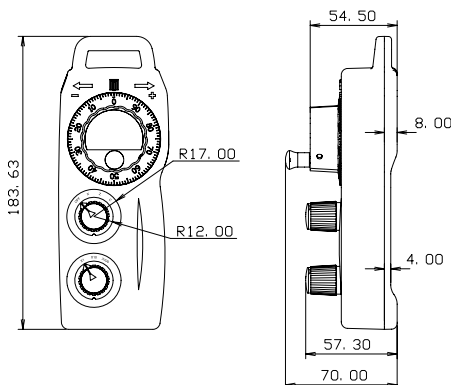
### Environmental

Operating Temperature	0° to 60° C
Humidity	RH 35% to 90% no condensation
Storage Temperature	0° to 80° C
Vibration	10-50 Hz/1.5mm X, Y, Z - 2 hrs. each
Shock	50 G per 11 ms
Enclosure	IP65/NEMA 4

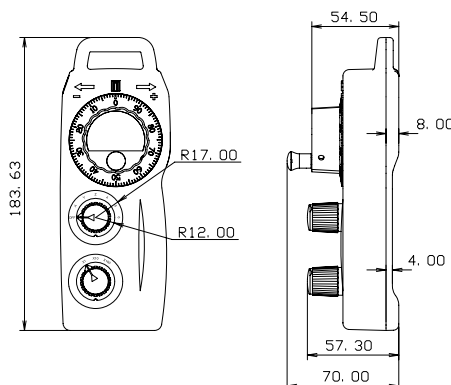
### Rotary Switch

Max. Voltage	30 v dc
Current / Switch Life	50 mA / ≥25,000 cycles

**3-Axis**



**5-Axis**



## Series EHDW-Pendant Hand-Held for FANUC CNC-Lathes or Mills

MODEL NUMBER	SPECIFICATION	LIST PRICE
<b>EHDW-BA3S-IM</b>	Fanuc CNC Control-3 axis Lathes. Centroid Part # 10808 100 Pulse, 5vDC, TTL Output, 3 axis SW. Multiplier SW, 10 ft. Spiral Cable, Magnets in rear.	\$760.00
<b>EHDW-BA5S-IM</b>	Fanuc CNC Control-5 axis Mills. Centroid Part # 11069 100 Pulse, 5vDC, TTL Output, 5 axis SW. Multiplier SW, 10 ft. Spiral Cable, Magnets in rear.	\$760.00
<b>EHDW-CA4S-IM</b>	Fanuc CNC Control-4 axis Mills with Enable SW 100 Pulse, 5vDC, TTL Output, 4 axis SW. Johnford replacement Multiplier & Enable SW's, 10 ft. Spiral Cable, Magnets in rear.	\$830.00
<b>EHDW-CA5S-IM</b>	Fanuc CNC Control-5 axis Mills with Enable SW 100 Pulse, 5vDC, TTL Output, 5 axis SW. Johnford replacement Multiplier & Enable SW's, 10 ft. Spiral Cable, Magnets in rear.	\$830.00

## Series EHDW-Pendant Hand-Held for Mitsubishi & Std. CNC Controls

MODEL NUMBER	SPECIFICATION	LIST PRICE
<b>EHDW-CD5S-IM</b>	Mitsubishi CNC Control with Enable SW 25 Pulse, 12vDC, TTL Output, 5 axis SW Multiplier & Enable SW's, 10 ft. Spiral Cable, Magnets in rear.	\$830.00
<b>EHDW-BE5S-IM</b>	Std. CNC Controls 100 Pulse, 5vDC, Diff. Line driver Output, 5 axis SW Multiplier & Enable SW's, 10 ft. Spiral Cable, Magnets in rear.	\$830.00
<b>EHDW-CE3L-IM</b>	Std. CNC Controls 100 Pulse, 5vDC, Diff. Line driver Output, 3 axis SW Multiplier & Enable SW's, 16 ft. Spiral Cable, Magnets in rear.	\$960.00

### WIRING DIAGRAM:

Wire Color	Function	Centroid Pin# (AMP#206039-1)
Brown	5v DC	1
Red + Orange/White	Ground	2
Orange	A	3
Pink	B	4
Olive	Axis 1	5
Blue	Axis 2	6
Purple	Axis 3	7
Gray	Axis 4	8 (N/A in 3 Axis)
Green/White	Axis 5	9 (N/A in 3 Axis)
Brown/White	Rate x1	10
Red/White	Rate x10	11
Red/Black	Rate x100	12
Blue/White	LED 5-24v dc	13
Gray/Black	LED Ground	14
Shield	Shield	26

MODEL	PRICE
<b>Amp CPC Size 17 connector kit</b>	\$90.00
1.3"O.D., 0.75" I.D., 28 pos., #18-28 AWG Gold Solder 1-#206039-1 Plug, 28-#66570-3 Pin, 28-#66569-3 Socket, 1-#206038-1 Mating Receptacle 1-#207241-1 Cable Boot, 1-#207387 Cable Grip	



MODEL	PRICE
<b>Amphenol Alloy Size 24 connector kit</b>	\$90.00
1.7"O.D., 1.2" I.D., 24 pos., Size 24-28, 1-1/2"-18 UNEF 1-#MS3106F24-28P Straight Cable Plug with 24 Pin-Solder-Contacts, 1-Cable Clamp Backshell, 1-Rubber Grommet 1-#MS3102E24-28S Mating Receptacle with 24 Socket-Solder-Contacts, 1-Rubber Washer 1-1/4"O.D.x 3/8" I.D. x 1/16" 1-#AN3420-16, 1-#AN3420-6 Rubber Bushing Boots	



Model	Price
<b>EE-6C004-A01</b>	\$280.00

Replacement 5m (16ft.) Spiral Cable (25 wires) - D.I.Y. work

