

# PM486FS DC Motor Driven Roller

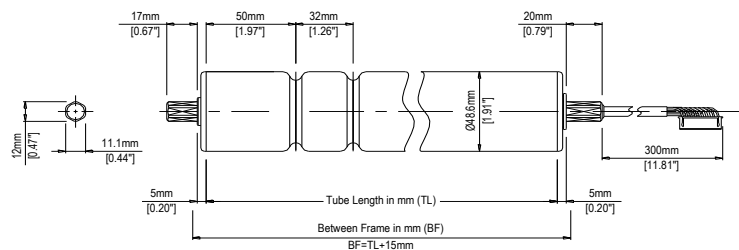


Diameter: 1.91" (48.6mm)  
Voltage: 24V DC

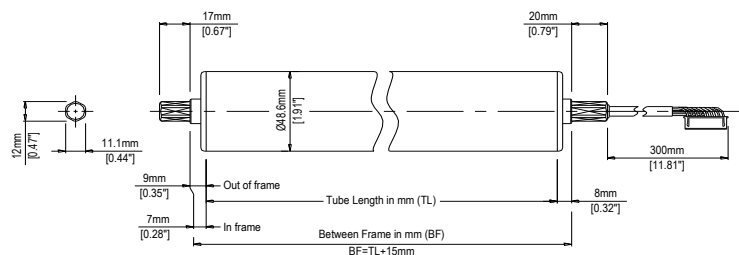
## Features

- Brushless DC motor provides long life
- ABEC 1 Bearings
- DOM, zinc plated, carbon steel tube
- Time tested performance
- Strong motor torque
- 7/16" Hex (plain) shafts standard
- Torque transmitted through output tube
- Dynamic brake
- Dual shaft mounting

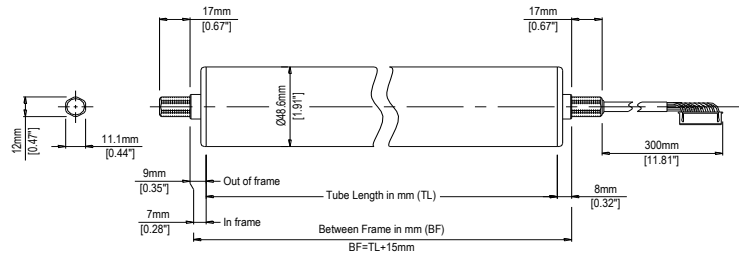
## Dimensions



Standard Hex Shafts with Grooved Tube



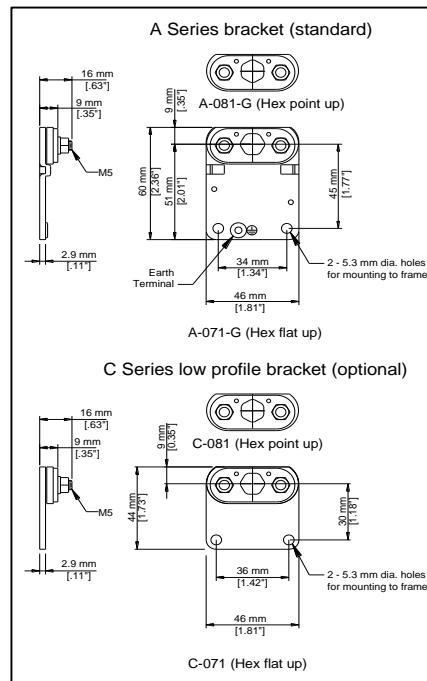
JR - (Yoke Style) Hex Shafts / Straight Tube



JT - (Threaded) Hex Shafts / Straight Tube

All shaft configurations available with grooved tube or straight tube.

## Mounting Brackets



JT shaft standard mounting hardware:  
toothed lock washer and nut\*

\*Note: Nuts are to be tightened to 22.1 lb-ft ± 10%

## Operation

- Cycle: 1s ON; 1s OFF
- Continuous or Intermittent duty
- Do Not Exceed 150% of No-Load Speed

## Protection

- Thermal overload 221°F (105°C) in the motor when used with an Itoh Denki controller

## Environment

- Ambient Temperature 32~104° F (0~40°C)
- < 90% Relative Humidity (No condensation)
- No Corrosive Gases
- Vibration < 0.5G

# PM486FS Performance Data

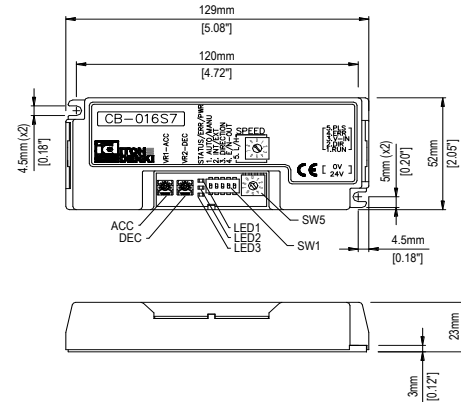


CB-016S7 20 speed settings								
Gear Stage	Speed Code	No-load (FPM)		Tangential Force (lb) Starting	Torque (lb-in) Starting	Current (A) At highest speed		
		SW1-5 on SW5 9 High	SW1-5 off SW5 0 Low			Starting	No-Load	Rated
3	5	24.5	7.2	92.8	88.8	3.6	0.3	1.6
	8	34.9	7.2	96.3	92.1	4.0	0.4	2.1
	10	45.8	7.2	92.8	88.8	4.0	0.5	2.4
	15	56.6	7.2	79.1	75.6	4.0	0.6	2.8
2	20	92.6	26.6	27.9	26.7	3.6	0.3	1.6
	30	131.8	26.6	29.0	27.7	4.0	0.4	2.1
	45	172.7	26.6	27.9	26.7	4.0	0.5	2.4
	55	213.7	26.6	23.8	22.8	4.0	0.6	2.8

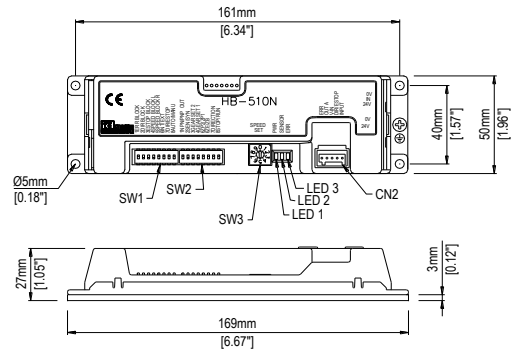
HB-510N 10 speed settings								
Gear Stage	Speed Code	No-load (FPM)		Tangential Force (lb) Starting	Torque (lb-in) Starting	Current (A) At highest speed		
		SW3 9 High	SW3 0 Low			Starting	No-Load	Rated
3	5	24.5	14.1	92.8	88.8	3.6	0.3	1.4
	8	34.9	14.1	96.3	92.1	4.0	0.4	1.8
	10	45.8	14.1	92.8	88.8	4.0	0.5	2.2
	15	56.6	14.1	79.1	75.6	4.0	0.6	2.5
2	20	92.6	53.5	27.9	26.7	3.6	0.3	1.4
	30	131.8	53.5	29.0	27.7	4.0	0.4	1.8
	45	172.7	53.5	27.9	26.7	4.0	0.5	2.2
	55	213.7	53.5	23.8	22.8	4.0	0.6	2.5

Performance data with other cards available upon request.

CB-016S7



HB-510N



## Minimum Tube Lengths and Options



Without spring loaded shaft



With spring loaded shaft

Gear Stages

Non Grooved Tube



Gear Stages	2	3
Without spring loaded shaft	254mm (10.00")	277mm (10.91")
With spring loaded shaft	305mm (12.01")	328mm (12.91")

Gear Stages



P2 Double Groove Tube (50/32)

Gear Stages	2	3
Without spring loaded shaft	305mm (12.01")	328mm (12.91")



BR Brake and P2 Double Groove (50/32)

Gear Stages	2	3
Without spring loaded shaft	369mm (14.53")	392mm (15.43")



WA Waterproof (IP-65) and P2 Double Groove (50/32)

Gear Stages	2	3
Without spring loaded shaft	315mm (12.40")	338mm (13.31")



Laggings

Wide range of rubber laggings available

\*Note: JT shafts add 10mm to minimum tube length