

1

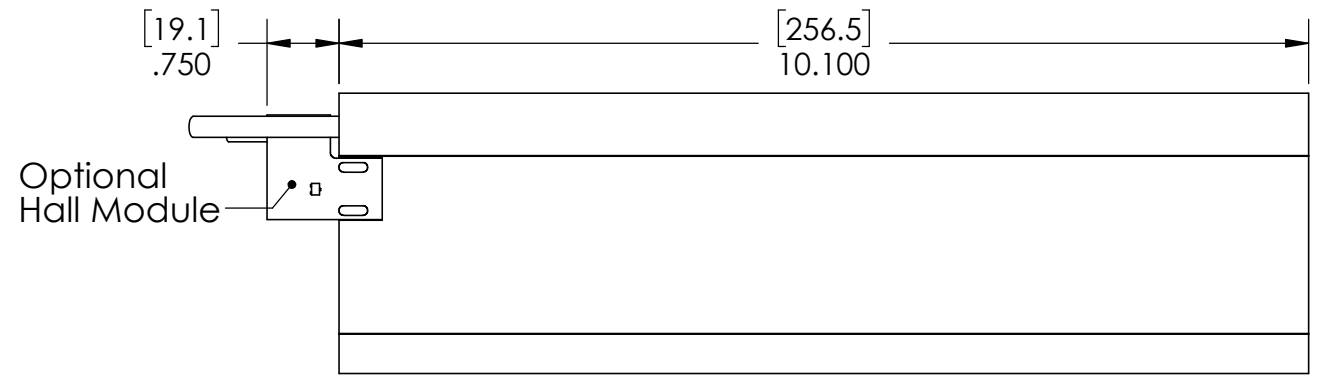
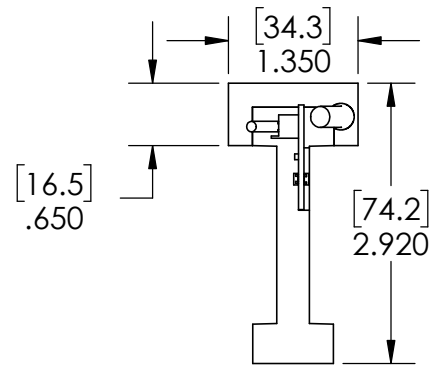
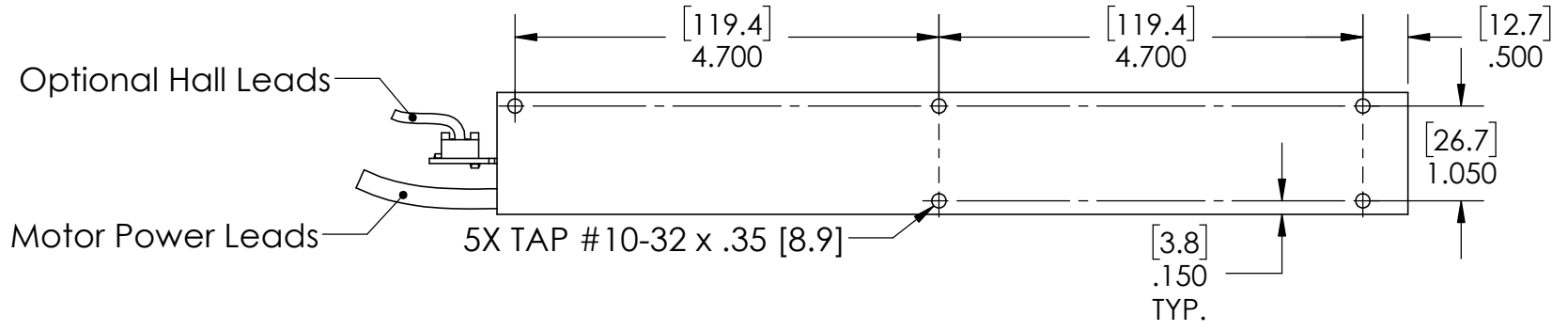
2

3

4

5

REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	SDC	MPW	5-12-15



Standard Cable Length = 1 meter

1

2

3

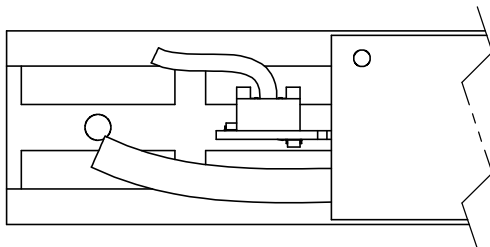
4

5

A

A

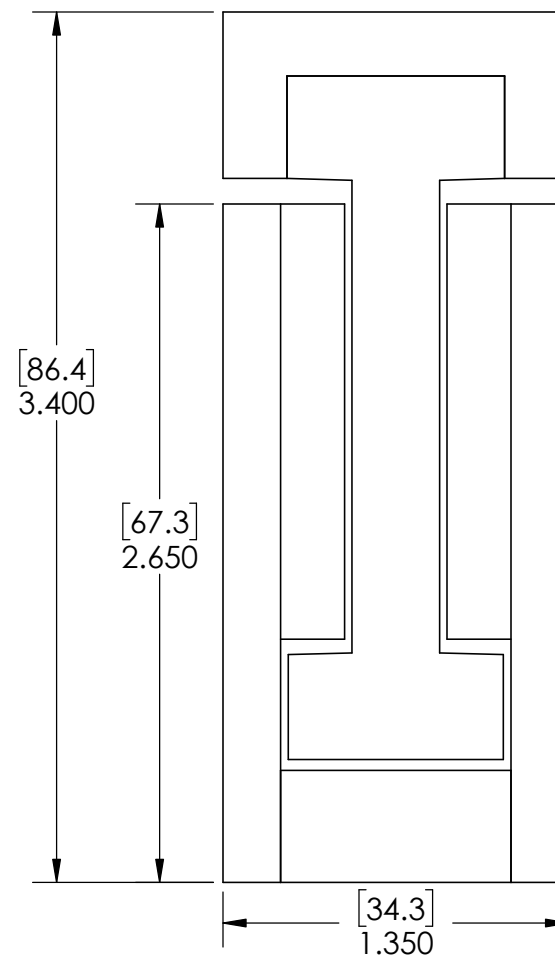
OPTIONAL HALL MODULE MUST BE IN  
MAGNET TRACK FOR COMMUTATION



B

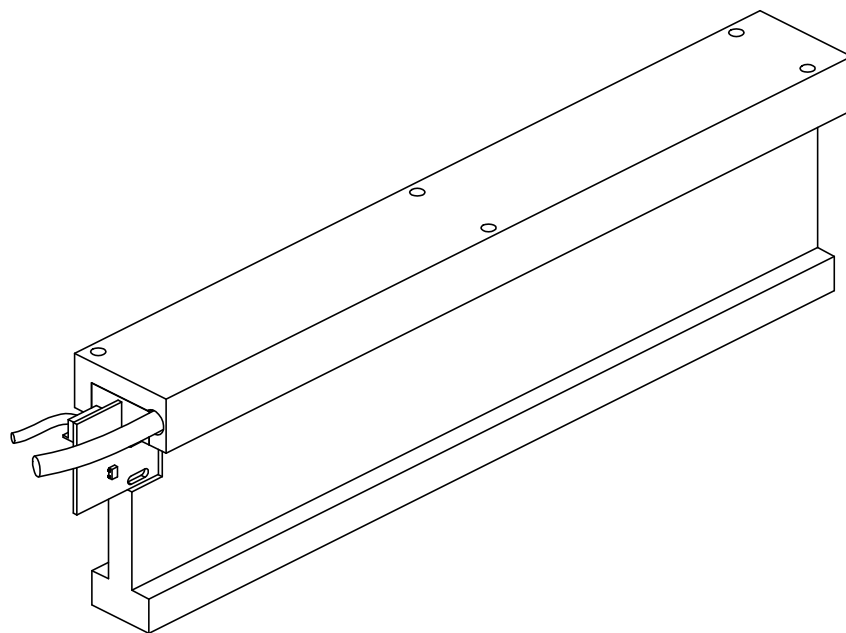
B

MOTOR COIL SHOWN  
WITH MAGNET TRACK



C

C



D

D



**H2W Technologies, Inc.**

Santa Clarita, CA 91350 USA  
Tel: (661) 291-1620

[www.h2wtech.com](http://www.h2wtech.com)

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UNLESS SPECIFIED OTHERWISE:  
All dimensions are in inches  
Standard Tolerances are as follows  
.XXX ±.005 ANGLES ±.1°  
.XX ±.010 FILLETS .010  
.X ±.020 CORNERS .010  
Remove All Burrs and Sharp Edges

**FOR  
REFERENCE  
ONLY**

MATERIAL

FINISH

TITLE

Ironless Motor Coil Model #:

**BLDM-D08**

DWG #

**20-0222**

REV

----

DATE

5-12-15

SHEET

2 of 3

1

2

3

4

5

A

A

Motor Specifications		
BLDM-D08		
General		
Continuous Force	lbs [N]	33 [147]
Continuous Current	Amps	1.5
Continuous Power	Watts	103.5
Peak Force @ 10% Duty	lbs [N]	99 [441]
Peak Current @ 10% Duty	Amps	4.4
Peak Power @ 10% Duty	Watts	931.5
Electrical		
Force Constant	lbs/Amp [N/Amp]	22.3 [99.3]
Back EMF	V/in/sec [V/m/sec]	2.52 [99.3]
Resistance	Ohms	36.4
Inductance	mH	48.3
Electrical Time Constant	msec	1.3
Km Motor Constant	lbs/sqW [N/sqW]	3.7 [16.4]
Mechanical		
Electrical Cycle Length	in [mm]	2.4 [60.96]
Number of Poles	8	
Coil Assembly Length		
with Hall Sensor	in [mm]	10.85 [275.6]
without Hall Sensor	in [mm]	10.1 [257]
Coil Assembly Weight	lbs [kg]	2.6 [1.2]
Magnet Track Weight	lbs/in [kg/m]	0.65 [11.63]

B

B

Wiring	
Motor	
Phase A	White/Red Stripe
Phase B	White
Phase C	White/Black Stripe
Ground	White/Green Stripe
Thermostat 1	Blue
Thermostat 2	Orange
Hall Effect	
Hall A	White
Hall B	Red
Hall C	Black
Hall Ground	Green
Hall Power (+5-24VDC)	Brown, Orange, Violet, Yellow

C

C

D

D


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SHEET

3 of 3