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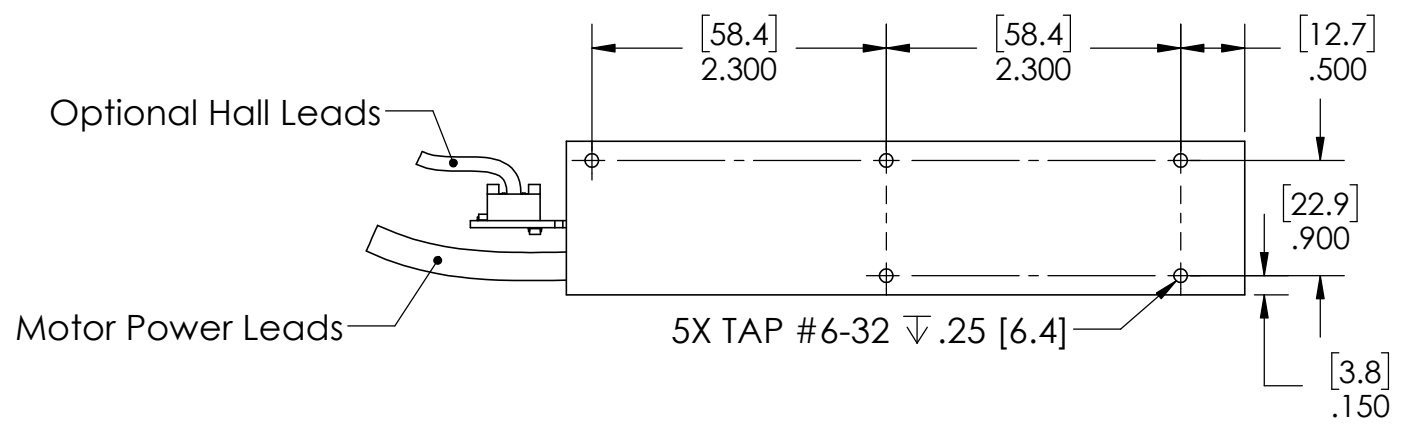
REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	SDC	MPW	5-12-15

A

A

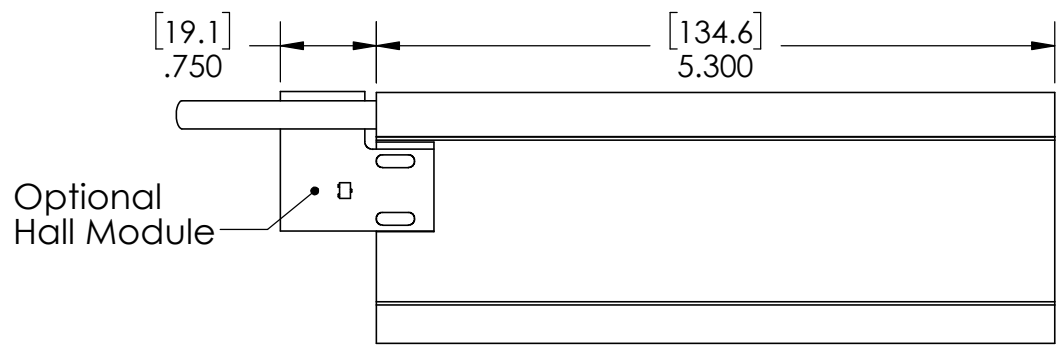
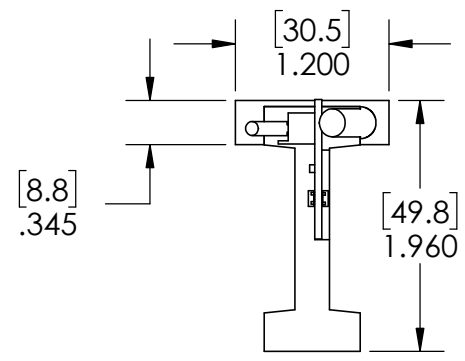
B

B



C

C



D

D

STANDARD CABLE LENGTH = 1m

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 Santa Clarita, CA 91350 USA
 Tel: (661) 291-1620
www.h2wtech.com

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 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-C04

DWG #	20-0216
REV	----
DATE	5-12-15
SHEET	1 of 3

1

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3

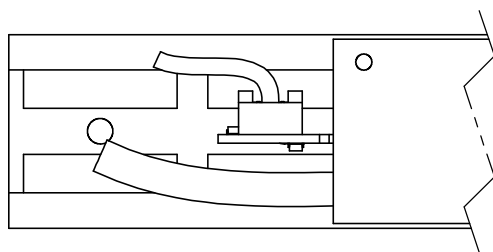
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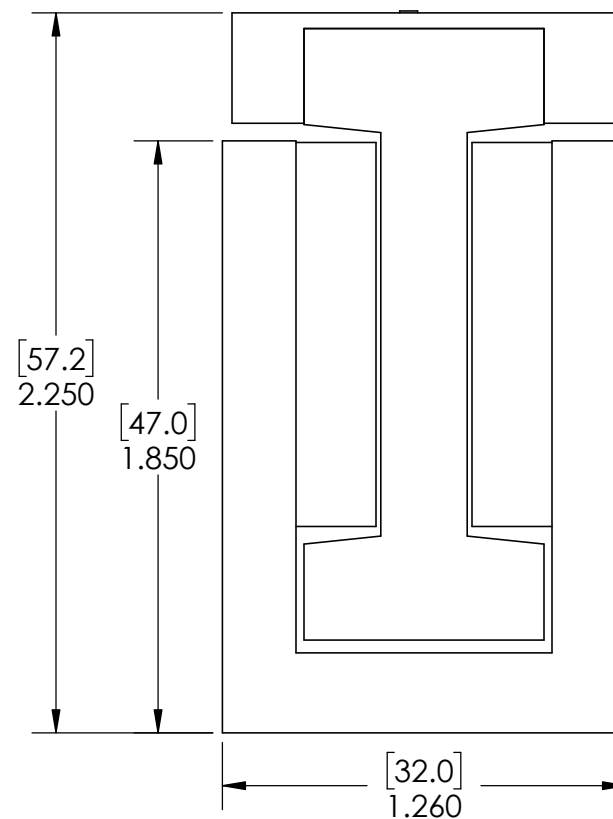
A

A

**OPTIONAL HALL MODULE MUST BE IN
MAGNET TRACK FOR COMMUTATION**



**MOTOR COIL SHOWN
WITH MAGNET TRACK**



B

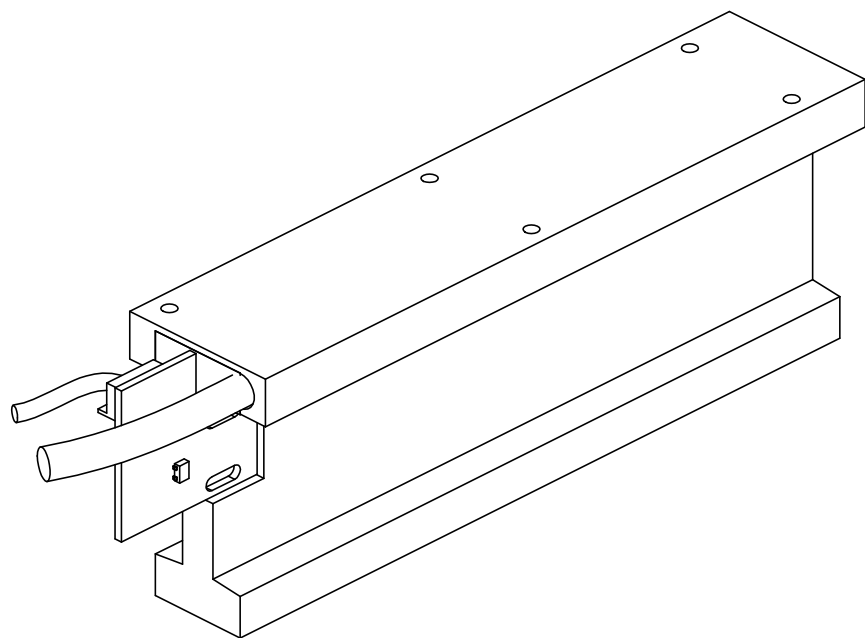
B

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C

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D



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MATERIAL

FINISH

TITLE

Ironless Motor Coil Model #:

BLDM-C04

DWG #

20-0216

REV

DATE

5-12-15

SHEET

2 of 3

1

2

3

4

5

A

A

Motor Specifications		
BLDM-C04		
General		
Continuous Force	lbs [N]	13 [58]
Continuous Current	Amps	1.9
Continuous Power	Watts	49.5
Peak Force @ 10% Duty	lbs [N]	39 [173]
Peak Current @ 10% Duty	Amps	5.7
Peak Power @ 10% Duty	Watts	445.5
Electrical		
Force Constant	lbs/Amp [N/Amp]	6.8 [30.4]
Back EMF	V/in/sec [V/m/sec]	0.77 [30.4]
Resistance	Ohms	10.6
Inductance	mH	10.6
Electrical Time Constant	msec	1
Km Motor Constant	lbs/sqW [N/sqW]	2.1 [9.4]
Mechanical		
Electrical Cycle Length	in [mm]	2.4 [60.96]
Number of Poles	4	
Coil Assembly Length		
with Hall Sensor	in [mm]	6.05 [153.7]
without Hall Sensor	in [mm]	5.3 [134.6]
Coil Assembly Weight	lbs [kg]	0.7 [0.32]
Magnet Track Weight	lbs/in [kg/m]	0.45 [8.05]

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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MATERIAL

FINISH

TITLE

Ironless Motor Coil Model #:
BLDM-C04

DWG # **20-0216**

REV ----

DATE 5-12-15

SHEET 3 of 3