

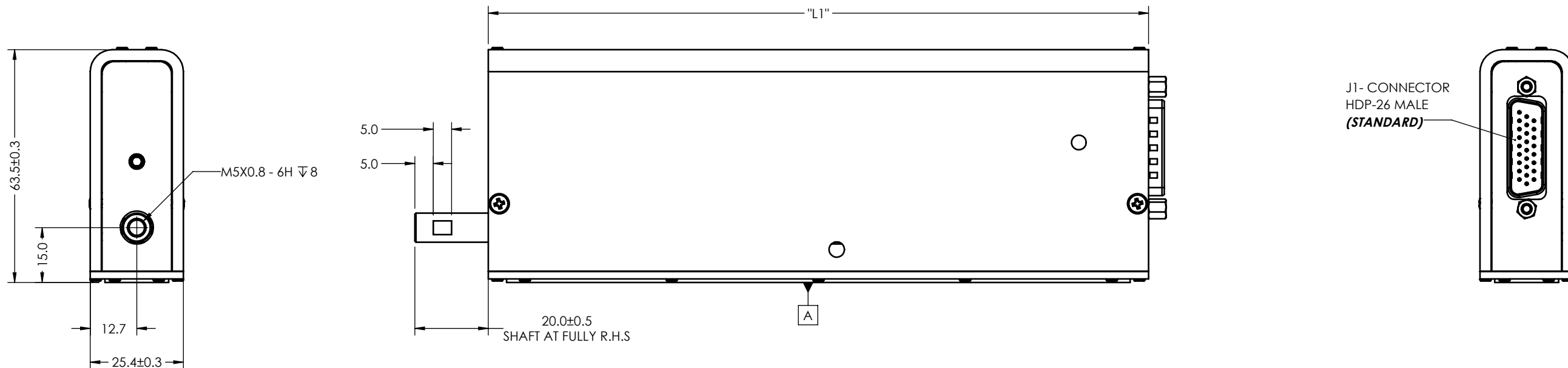
NOTES (UNLESS OTHERWISE SPECIFIED)

- 1. LINAR SPECIFICATIONS:
ENC. RESOLUTION(+A/-A;+B/-B): 5,1 um
ENCODER REPEATABILITY: 10, 2 um
INDEX LOCATION(+Z/-Z): 1.5 - 3.5 mm R.H.S
- 2. MAGNET POLE PITCH: 18.3 mm
- 3. OPERATING TEMPERATURE: 0°C TO 40°C
- 4. PLATING: CERAKOTE, COLOR BLACK

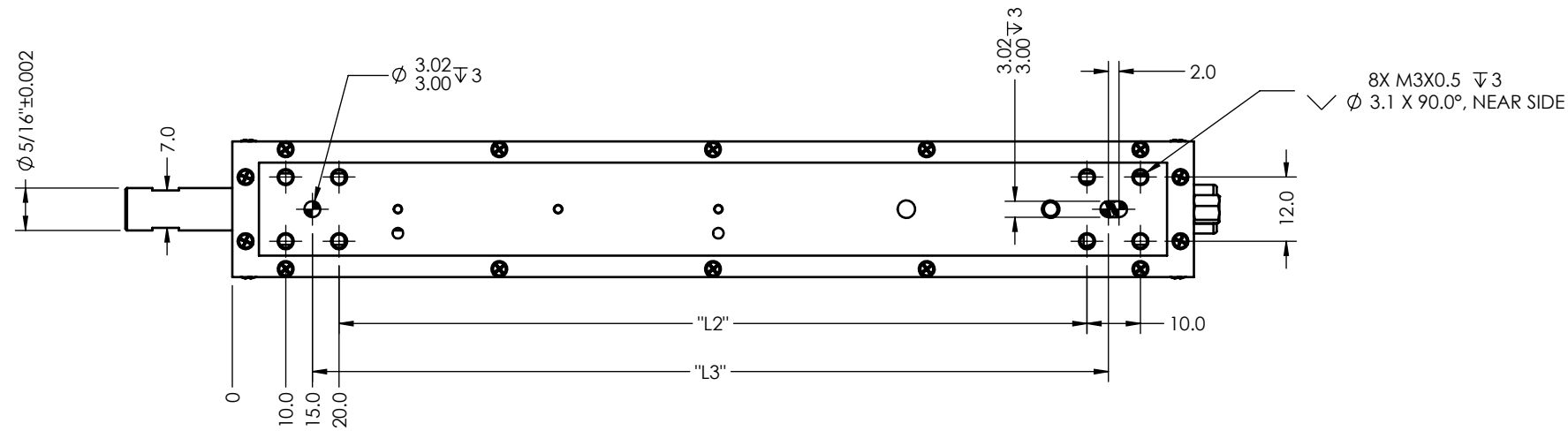
PLEASE SEE NEXT SHEET FOR CONNECTOR OPTION:

- 1. FLYING LEAD CABLE WITH HDP-26S (2 METER LG)
- 2. PIGTAIL EXTENSION CABLE (FROM HDP-26S FE. TO HDP-26P M.) (0.5 METER LG)
- 3. D-SUB 15 & M12 DIN CONNECTOR (CONSULT FACTORY)

REVISIONS				
REV	ECR	DESCRIPTION	DATE	APPROVED
A3	-	UPDATED THE COIL SPECS	4/29/2021	TV
B	-	UPDATED SHAFT DIAMETER	5/11/2021	HE
C	-	UPDATED CABLE PINOUT	5/24/2021	VH
D	-	UPDATED DATA SHEET, ADDED 75MM STROKE	6/21/2021	HE
E	-	UPDATED DATA SHEET & PINOUT	11/18/2021	HE



J1- CONNECTOR
HDP-26 MALE
(STANDARD)



STANDARD	
J1- HDP-26P MALE CONN.	
PIN	DETAIL
1	PH. A+
2	PH. B+
3	PH. Z+
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	PH. A-
11	PH. B-
12	PH. Z-
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	+5VDC
20	5V RTN
21	NC
22	MU
23	MV
24	MW
25	NC
26	NC

VACCUM ** (FACTORY CHECK)

STANDARD								
No	DETAILS	UNIT	LDL25-010-3X-6	LDL25-025-3X-6	LDL25-050-3X-6	LDL25-075-3X-6	LDL25-100-3X-6	
1	Linear stroke	mm	10	25	50	75	100	
2	Peak force	N	30	30	30	30	30	
3	Force constant	N/A	8.4	8.4	8.4	8.4	8.4	
4	Peak current	A	3.6	3.6	3.6	3.6	3.6	
5	Terminal resistance	Ohm	12.1	12.1	12.1	12.1	12.1	
6	Coil inductance	mH	1.1	1.1	1.1	1.1	1.1	
7	Moving mass	Kg	0.1	0.1	0.11	0.12	0.13	
8	Total mass	Kg	0.9	0.9	1.1	1.3	1.6	
9	Vacuum option		YES(**)	YES(**)	YES(**)	YES(**)	YES(**)	
10	Spring return opt		YES	YES	YES	YES	YES	
11	Dimension L1	mm	155	155	180	220	260	
12	Dimension L2	mm	115	115	140	180	220	
13	Dimension L3	mm	124	124	149	189	229	

REF. NUMBER	LDL25
CONTRACT	STD

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN MM
BREAK EDGES AND REMOVE BURRS
TOLERANCES
X: ±0.5 X.X: ±0.1
X.XX: ±0.03 ANGLE: ±0.1°
CONCENTRICITY: ±0.025
ROUNDNESS: ±0.025
EDGE BREAKS: 0.2 MAX
ALL DIMENSIONS AND TOLERANCES ARE FINAL

MATERIAL:	NAME	DATE
FINISH:	DWN BY	HE 8/17/2021
MACHINE FINISH: 1.6	CHK BY	TV 8/17/2021
INTERPRET PER: ASME Y14.5-2009	ENG APP	TV
THIRD ANGLE PROJECTION	MFG APP	
	QA APP	

SMAC 5807 VAN ALLEN WAY CARLSBAD CA, 92008 (760) 929-7588

MOVING COIL ACTUATORS

LINEAR ACTUATOR

SIZE: B PART NO: LDL25-XXX-YY-6F REV: E

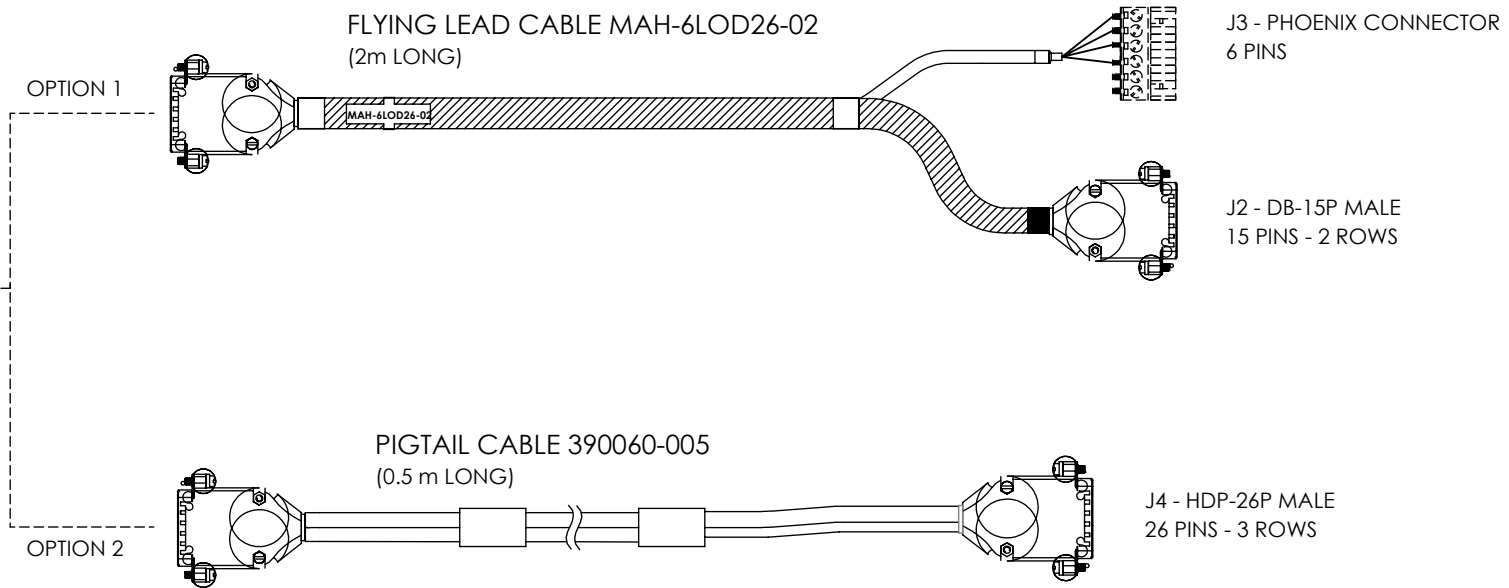
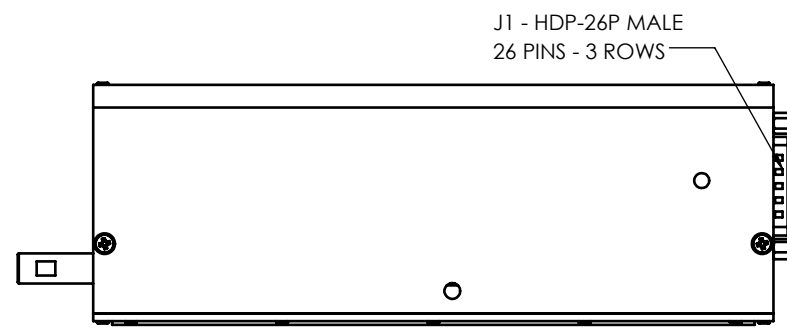
SCALE: 1:1.25 DO NOT SCALE SHEET: 1 / 4

REVISIONS				
REV	ECR	DESCRIPTION	DATE	APPROVED
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CABLE OPTION

1. FLYING LEAD CABLE WITH D-SUB 26 (2 METER LG)
2. PIGTAIL EXTENSION CABLE (FROM HDP-26S FE. TO HDP-26P M.) (0.5 METER LG)
3. FLYING LEAD CABLE WITH D-SUB 15 (2 METER LG) (USE MOD)
4. PIGTAIL EXTENSION CABLE (FROM HDP-15S FE. TO HDP-26P M.) (0.5 METER LG) (USE MOD)
5. M12 CONNECTOR (CONSULT FACTORY)

ACTUATOR WITH D-SUB 26 PINS CONNECTOR



J1 & J4 - HDP-26P CONN.

PIN	DETAIL
1	PH. A+
2	PH. B+
3	PH. Z+
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	PH. A-
11	PH. B-
12	PH. Z-
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	+5VDC
20	5V RTN
21	NC
22	MU
23	MV
24	MW
25	NC
26	NC

J2 - DB-15P CONN.

PIN	DETAIL
1	A+
2	Z+
3	B+
4	+5VDC
5	NC
6	NC
7	NC
8	NC
9	A-
10	Z-
11	B-
12	5V RTN
13	NC
14	NC
15	NV

J3 - PHOENIX CONN.

PIN	DETAIL
1	GND
2	+V
3	MU
4	MV
5	MW
6	GND (SHIELD)

UNLESS OTHERWISE SPECIFIED
 ALL DIMENSIONS ARE IN MM
 BREAK EDGES AND REMOVE BURRS
 TOLERANCES
 X: ±0.5 X.X: ±0.1
 X.XX: ±0.03 ANGLE: ±0.1°
 CONCENTRICITY: ±0.025
 ROUNDNESS: ±0.025
 EDGE BREAKS: 0.2 MAX
 ALL DIMENSIONS AND TOLERANCES ARE FINAL

MATERIAL:	NAME	DATE
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 CARLSBAD CA, 92008
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TITLE: **MOVING COIL ACTUATORS**

LINEAR ACTUATOR

SIZE: B PART NO: **LDL25-XXX-YY-6F** REV: **E**

SCALE: 1:1.25 **DO NOT SCALE** SHEET: 3 / 4

REF. NUMBER	LDL25
CONTRACT	STD