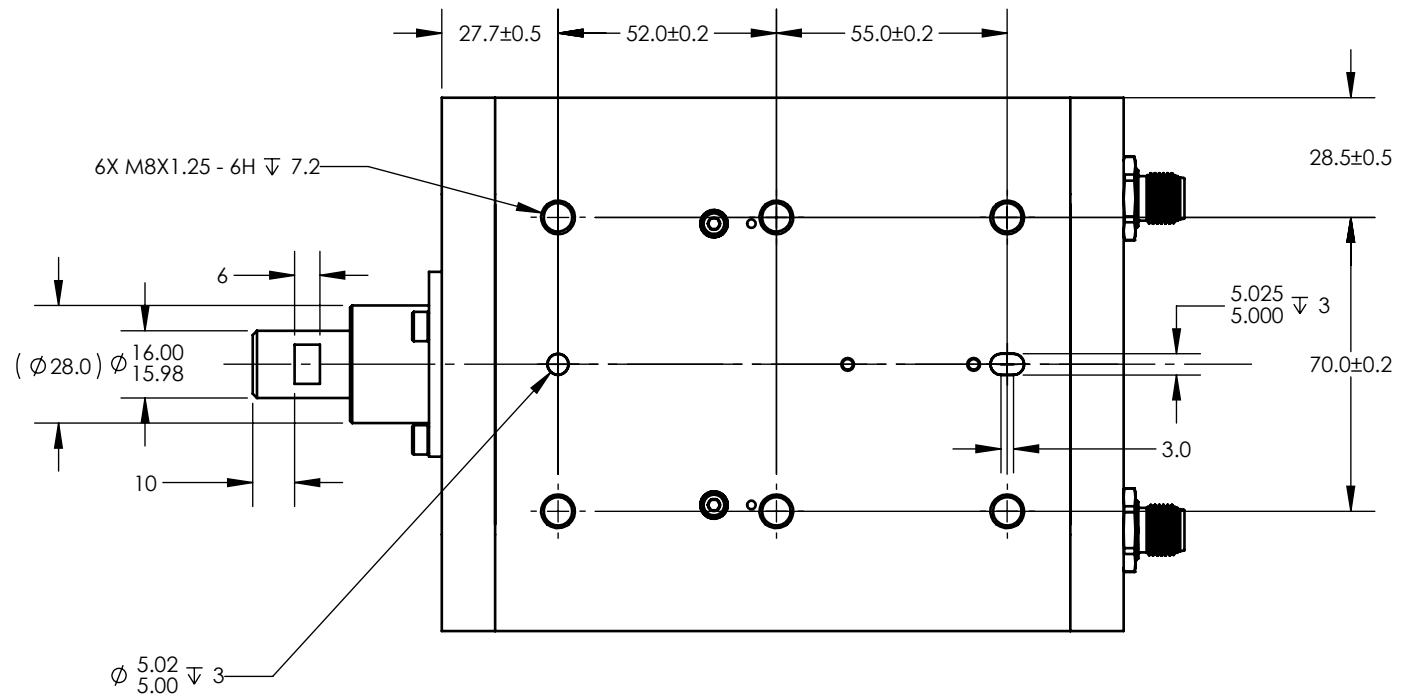
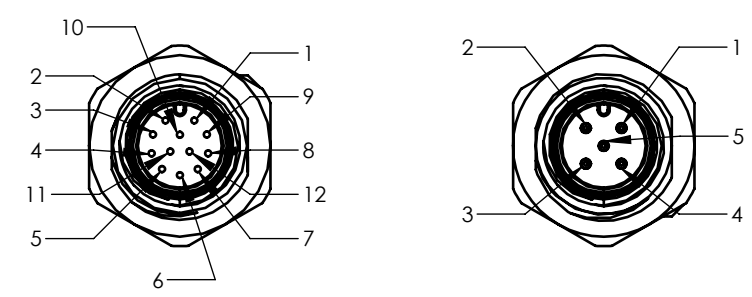
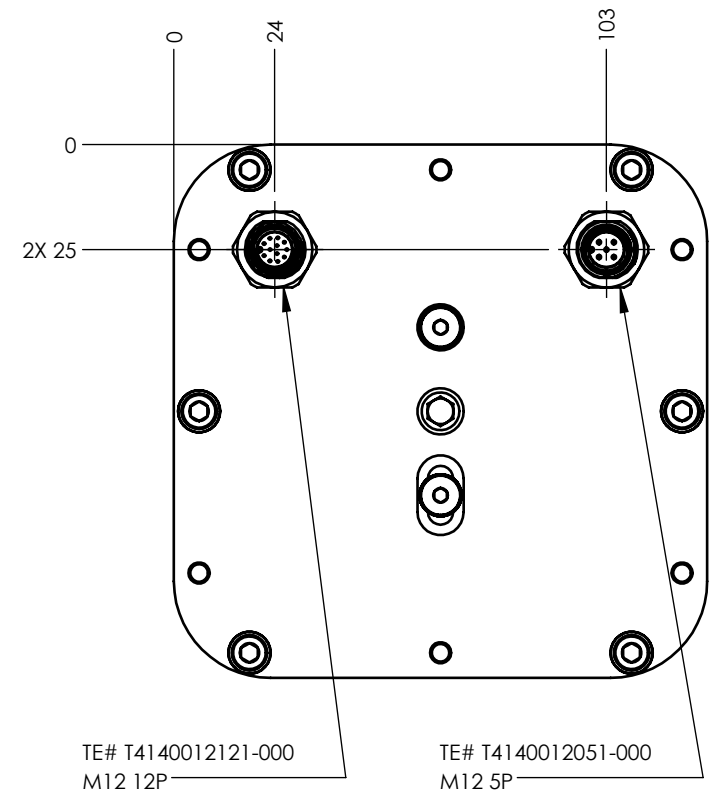
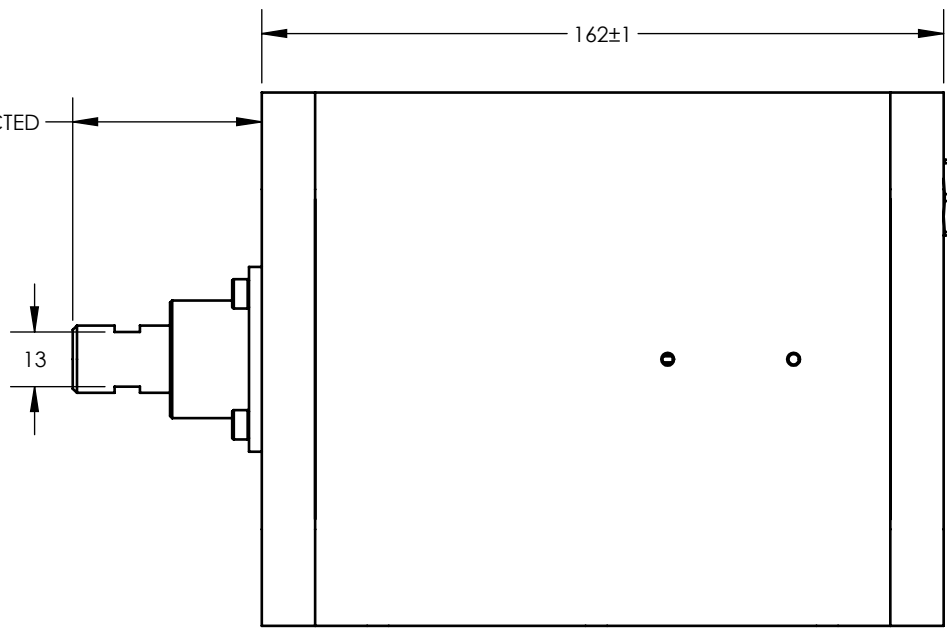
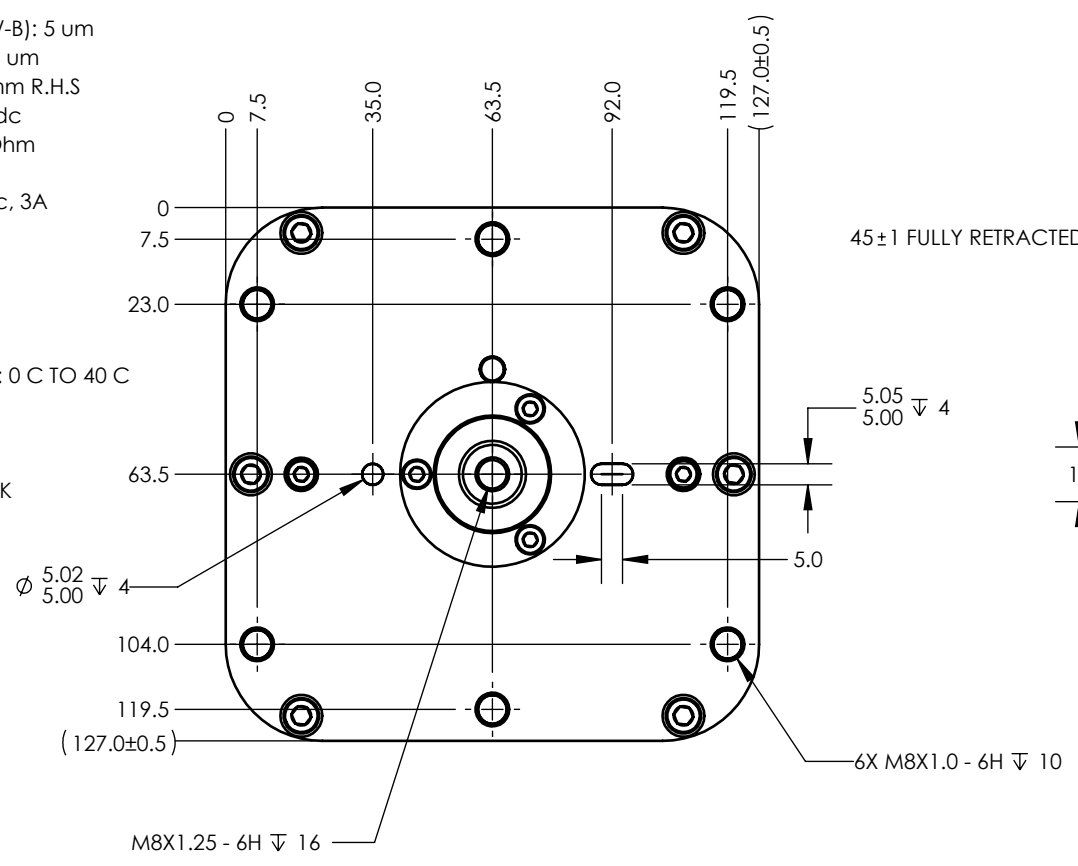


NOTES (UNLESS OTHERWISE SPECIFIED)

1. LINEAR SPECIFICATIONS:  
 LINEAR STROKE:  $30 \pm 1$  mm  
 ENC. RESOLUTION(+A/-A;+B/-B): 5  $\mu$ m  
 ENCODER REPEATABILITY: 20  $\mu$ m  
 INDEX LOCATION(+Z/-Z): 2 mm R.H.S  
 OPERATING VOLTAGE: 48 Vdc  
 COIL RESISTANCE:  $15.4 \pm 1$  Ohm  
 COIL INDUCTANCE: TBD mH  
 PEAK FORCE: 200 N @ 48Vdc, 3A  
 FORCE CONSTANT: 87 N/A  
 MOVING MASS: 0.880 kg  
 TOTAL MASS: 14.88 kg
2. VACUUM OPTION: TBD
3. SPRING OPTION: YES
4. OPERATING TEMPERATURE: 0 C TO 40 C
5. CABLE OPTIONS:  
 PIGTAIL AS 'MOD' OR  
 FLYING LEAD AS 'MOD'
6. PLATING: CERAKOTE BLACK

REVISIONS				
REV	ECR	DESCRIPTION	DATE	APPROVED
D	-	INITIAL RELEASE	4/12/2023	KN



PIN	DETAIL
1	+5 VDC
2	PH. Z-
3	PH. Z+
4	PH. B-
5	PH. B+
6	PH. A-
7	PH. A+
8	NC
9	5V RTN
10	NC
11	NC
12	NC

PIN	DETAIL
1	NC
2	SHIELD
3	COIL +
4	COIL -
5	NC

REF. NUMBER	LPL125-030
CONTRACT	LPL125-030-75-1FS

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:  
 SEE BOM  
 FINISH:  
 MACHINE FINISH:  
 INTERPRET PER:  
 ASME Y14.5-2009  
 THIRD ANGLE PROJECTION

NAME	KN	DATE	04/12/2023
DWN BY	TV	CHK BY	TV
ENG APP	TV	ENG APP	TV
MFG APP		QA APP	

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

MOVING COIL ACTUATORS

**LINEAR ACTUATOR**

SCALE: 1:5 **DO NOT SCALE** SHEET: 1 / 1

SIZE: B PART NO: LPL125-030-75-1F REV: D