

# NEW GENERATION PRECISION GAUGING

- Easy setup & adjustment
- 100% measurement with optical encoder  
(5µm to 50nm)
- Full stroke measurement
- No drift



- Programmable force, position & velocity
- Soft-Land capability to prevent product damages
- Force remains constant throughout stroke
- 100 million cycle long life
- SPC data collection

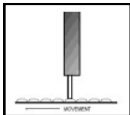
## CAL12 series

- 12mm Diameter
- Direct Drive Linear Motor
- Stroke: 10mm
- Force: 1.5N at 24V DC
- Encoder resolution: 1µm standard
- Fully programmable in force, position and velocity

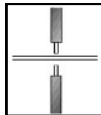
## Applications



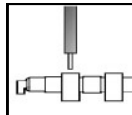
Switch Test



Height Gauging



Thickness Measurement



Profile Measurement

[www.smac-mca.com](http://www.smac-mca.com)

# SMAC

Moving Coil Actuators

# CAL 12 series Electric Cylinder

## PART NUMBERING

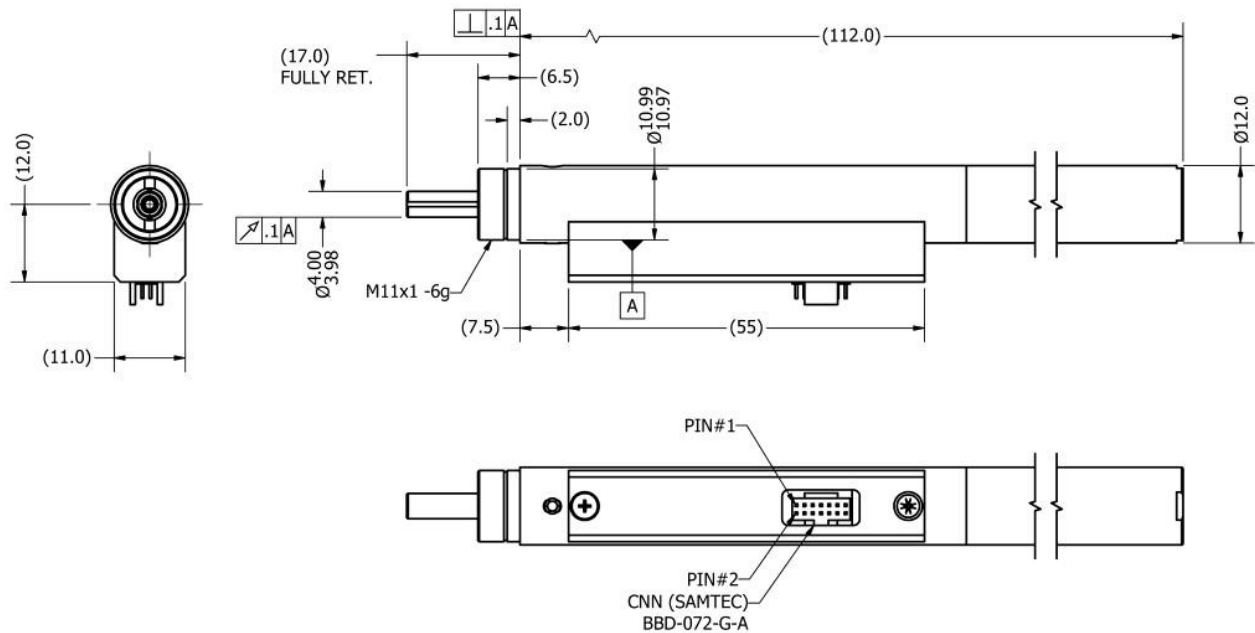
MODEL	SERIES	STROKE			VOLT		ENCODER		SHAFT	VACUUM	SPRING	MOD					
CAL	12	0	1	0	5	1				V	S	M	O	D			

5 = DC24V SINGLE COIL      1 = 1.0µm      B = BLANK  
 F = FEMALE  
 M = MALE  
 C = CUSTOM

## SPECIFICATION

Dimension:	Ø12x112 mm
Linear Stroke:	10 +1/-0 mm
Peak Force:	1.5 N @ 24Vdc (1.5A)
Force Constant:	1.0 N/A
Encoder Resolution:	1µm
Encoder Repeatability:	2 ±µm
Moving Mass:	10 grams
Total Mass:	0.080 kg
Operating Temperature:	0°C to 65°C

## DIMENSIONS



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