

INTEGRAL ACTUATOR MODULE WITH CURRENT SENSING

E23171 – SINGLE ACTUATOR
E23172 – DUAL ACTUATOR

FUNCTIONAL DESCRIPTION

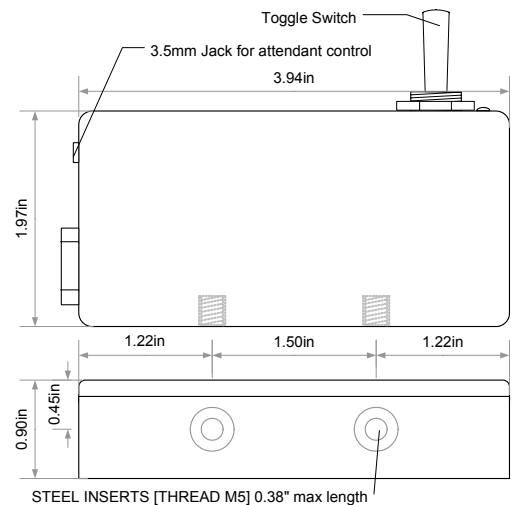
Introducing the NEW single channel integral actuator module (*iAM*) with current end of course detection by Liber-T Medtech. The *iAM* E23171 is the industry most simple, yet versatile wheelchair actuator module to date. The *iAM* comes with *plug and play* connectors, wiring harness, programmable accel/decel, attendant output and programmable end of course current detection in a small metal enclosure.

Packaged in a small metal case the *iAM* is a smart and economical solution to actuator drive.

SPECIFICATIONS

- Microprocessor based electronic
- Integral Unit (with remote capabilities / attendant control)
- Black Die Cast Aluminium Casing
- Horizontal / Vertical configurations available
- Connectors configuration available
- Programmable SoftStart / SoftStop Accel-Decel rate
- Programmable Current Limit
- Thermally Protected (resettable fuse)
- TASH™ Compatible (3.5mm jack)
- Steel Inserts (M5,10-32)
- Extender bat and boot for toggle switch available
- Supply: 24V_{nom} (16V-32V)
- Very Low Standby Current:..... < 3.3mA

E23170 SERIES

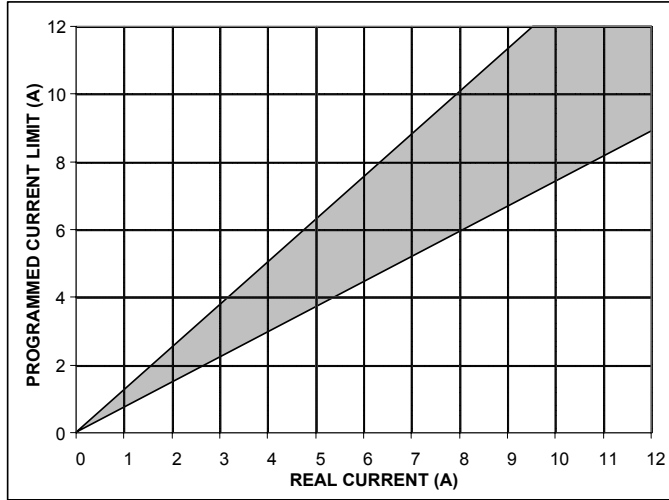


DIMENSIONS (Single&Dual)	
DIE CAST ALUMINIUM BLACK CASING	
Width	1.97"
Length	3.94"
Height	0.90"

E2317X SERIES THERMAL PROTECTION*	
I (AMPS)	TIME (SEC)
4.0	∞
5.3	∞
6.0	∞
7.0	1800**
8.1	300
9.0	250

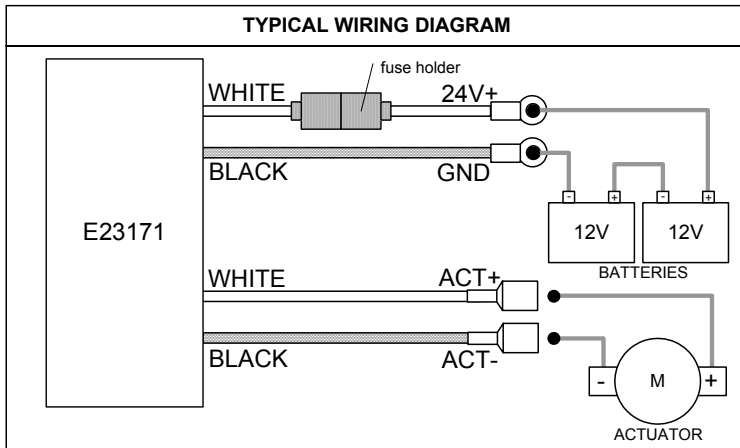
*time to reach thermal protection from 25degC
**estimated values

CURRENT SENSING VALUE VS REAL CURRENT VALUE



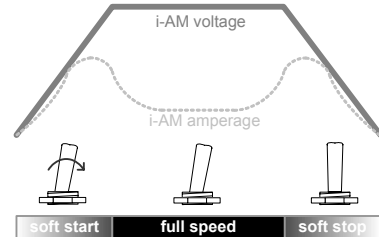
(TESTED BETWEEN 20°C AND 65°C)

NOTE : When using the current sensing feature, it is important to test the desired temperature and load range to ensure proper detection in all conditions.

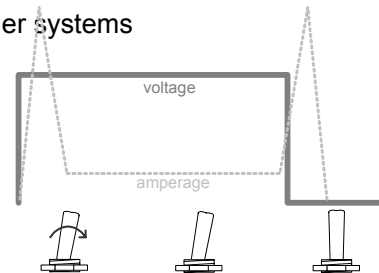


SOFT START - SOFT STOP FEATURES

i-AM soft start and soft stop minimize current spikes on the actuator and provide a smooth movement on the seating system.

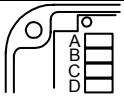
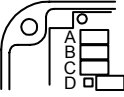
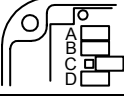
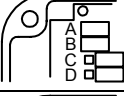
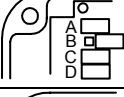
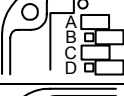
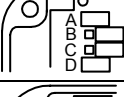
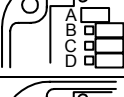
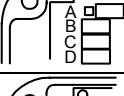
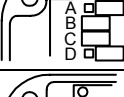
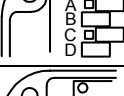
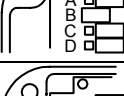
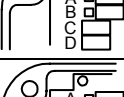
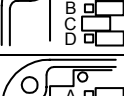
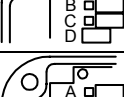
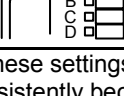


Other systems



SINGLE ACTUATOR JUMPERS CONFIGURATION

LIBER-T MEDTECH
DATA SHEET

	JUMPERS				3.5mm JACK	END OF COURSE		
	A	B	C	D		LEVEL	TIME	
0		ON	ON	ON	ON	MONO	4 AMPS	0.25 SEC
1		ON	ON	ON	OFF	MONO	4 AMPS	0.50 SEC
2		ON	ON	OFF	ON	MONO	4 AMPS	1.00 SEC
3		ON	ON	OFF	OFF	MONO	6 AMPS	0.25 SEC
4		ON	OFF	ON	ON	MONO	6 AMPS	0.50 SEC
5		ON	OFF	ON	OFF	MONO	6 AMPS	1.00 SEC
6		ON	OFF	OFF	ON	MONO	8 AMPS	0.25 SEC
7		ON	OFF	OFF	OFF	MONO	8 AMPS	0.50 SEC
8		OFF	ON	ON	ON	MONO	8 AMPS	1.00 SEC
9		OFF	ON	ON	OFF	MONO	10 AMPS	0.25 SEC
10		OFF	ON	OFF	ON	MONO	10 AMPS	0.50 SEC
11		OFF	ON	OFF	OFF	MONO	10 AMPS	1.00 SEC
12		OFF	OFF	ON	ON	MONO**	12 AMPS**	0.25 SEC**
13		OFF	OFF	ON	OFF	MONO**	12 AMPS**	0.50 SEC**
14		OFF	OFF	OFF	ON	MONO**	12 AMPS**	1.00 SEC**
15		OFF	OFF	OFF	OFF	NO CURRENT LIMIT		

**These settings are for testing only. Depending on the thermal conditions (internal and external) these values cannot be achieved consistently because of the thermal protection rating. See the E2317X SERIES THERMAL PROTECTION table for more information.