

MA-5 SPECIFICATIONS

FEATURES

- 🚩 Controls up to 10 cylinders
- 🚩 USB C communication
- 🚩 Inputs protected up to 50V
- 🚩 Water-resistant Aluminum housing
- 🚩 Engine diagnostics
- 🚩 CAN-bus
- 🚩 Shortcut protected outputs
- 🚩 Idle control
- 🚩 RPM limiter (launch control, pit limiter)
- 🚩 ALS (anti lag system)
- 🚩 Boost control
- 🚩 2 different engine load inputs
- 🚩 1 configurable analog input
- 🚩 1 selectable digital input
- 🚩 3 auxiliary
- 🚩 Weight 333g

INPUTS	
TPS (throttle position sensor)	Throttle position sensor 0-5v signal
Crank (inductive)	Inductive
Hall input	Crank or cam signal
Oil pressure	Configurable
MAP/MAF	0-5v signal
Water temp	Pre calibrated KMS sensor, default NTC (2.2 kΩ at 25°)
Air temp	Pre calibrated KMS sensor, default NTC (2.2 kΩ at 25°)
Lambda	signal from KMS lambda controller
Digital input	Powershift or airco input
Launch control	5v on pin, switched to ground for input
Analog auxiliary	0-5v configurable input
OUTPUTS	
Injection	7A at 12V
5x ignition	5v output signals for amplified coils
Boost control	PWM signal
Idle control valve	Max 1A at 12V
Fuel pump relay	Max 1A at 12V
3x auxiliary	Max 1A at 12V
Tacho	
Communications	
USB C	Communication to PC
CAN-bus	0.5 MHz and 1 MHz communication

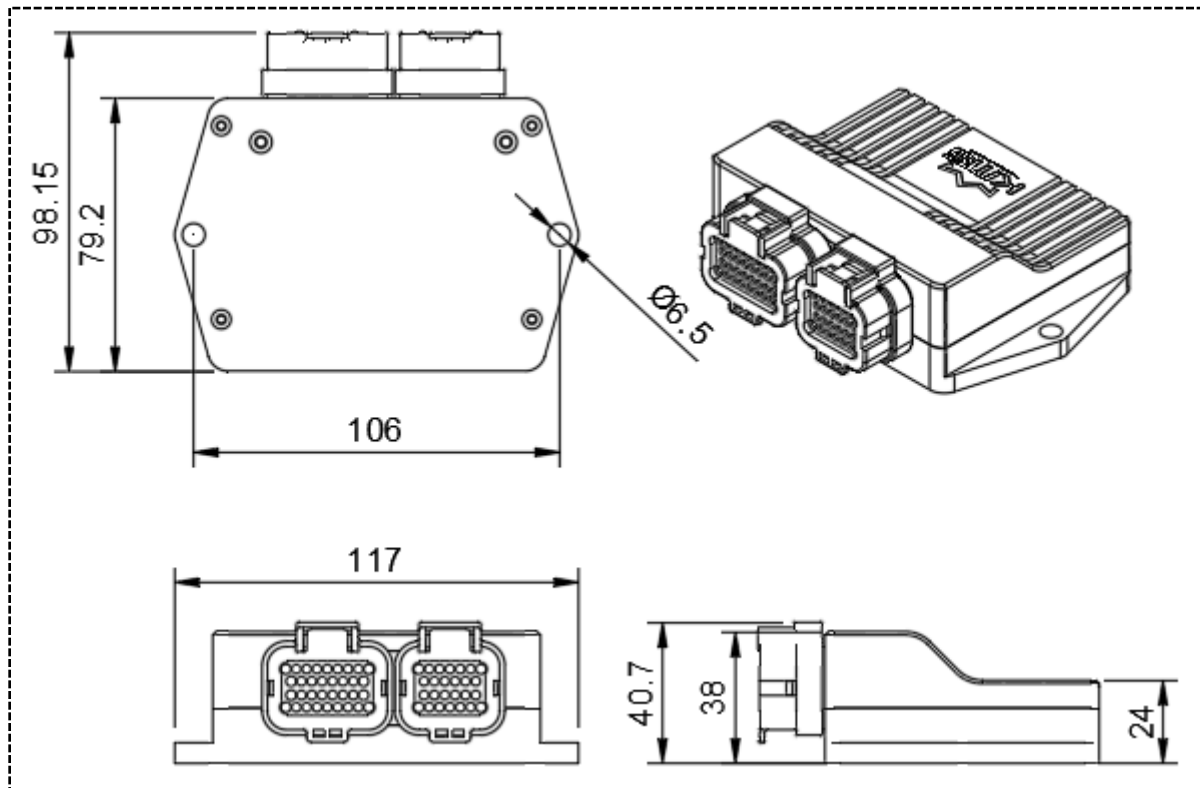
**CONNECTOR 1 ENGINE:
SUPERSEAL 34PIN**

PIN NO.	WIRING COLORS	MAS FUNCTION + OPTIONS	
1	White	Injection output 1	
2	Orange	Ignition output 1	Logic level
3	Green	Ignition output 2	Logic level
4	Purple	Ignition output 3	Logic level
5	Black/grey	TPS ground	
6	Grey	TPS signal	0-5v input
7	Blue(Shielded)	Crank ground	
8		Not used	
9	Red (shielded)	Crank signal inductive	
10		Not used	
11	Pink	Ignition output 4	Logic level
12	Blue	Ignition output 5	Logic level
13		Not used	
14	Yellow/Red	Idle control	PWM signal for idle valve
15	Yellow/gray	TPS 5V	
16	Yellow/brown	Oil press 5V	
17	Brown	Oil press signal	0-5v input
18	red	Injection 12V	
19		Not used	
20		Not used	
21		Not used	
22	Orange/Black	Boost control	PWM boost solenoid output
23	Yellow/pink	MAP 5V	
24	black/blue	Water temp ground	
25	Grey/Blue	Water temp signal	
26		Not used	
27	Red/purple	Lambda1 12V	
28	Black/Purple	Lambda1 Ground	
29	Purple/white	Lambda1 signal	Signal from KMS Lambda controller
30	Red/green	Boost / Idle 12V	
31	Black/Brown	MAP/Oil ground	
32	Grey/Black	MAP signal	
33	Black/Light blue	Air temp ground	
34	red/blue	Air temp signal	







**CONNECTOR 2 CHASSIS:
SUPERSEAL 26 PIN**

PIN NO.	WIRING COLOR	MAS FUNCTION + OPTIONS	
1	Green/Red	Digital input*	*Powershift or Airco input
2		Not used	
3	White/Black	Fuel pump relay	
4	Red	USB 5v	
5	Black	USB ground	
6	Pink	Aux 2	Radiator fan, shift light, water injection etc.
7	Yellow /red	Aux 3	Radiator fan, shift light, water injection etc.
8	White	CAN high	
9	Green	CAN low	
10	Green	USB D+	
11	White	USB D-	
12	Yellow	Sensor 5V	
13	Blue	Aux 1	Radiator fan, shift light, water injection etc.
14	Red	CAN 12V	
15	Black	CAN ground	
16	Yellow/Black	Launch control	
17	Red/Black	Tacho output	
18	Black	Sensor ground	
19		Not used	
20	Red/green	12V Boost idle CAN in	5A fuse
21	Red/purple	12V Lambda in	15A fuse
22	Red/White	12V ECU & Injection in	10A fuse
23	Black	ECU ground	
24	Black	ECU ground	
25		Not used	
26	White/Red	Analog aux 1**	** 5V, Var. A.L.S, Var. Launch, Gear position or EGT

DIMENSIONS



CONNECTABLE PRODUCTS

-  KMS Ignition driver
-  KMS Lambda controller
-  KMS ETC
-  KMS CAN-display
-  KMS Dash
-  KMS speed sensor CAN converter