Type No. 212-011-011

Description / features

The E-Clutch Actuator SSMD is an electro-hydraulic actuator that replaces the conventional, foot pedal driven clutch actuation system ("clutch-by-wire").

The unit is driven by an electric motor and is equipped with an integrated battery pack. It offers several different modes of operation:

- Manual mode (i.e. control via analog clutch paddle, e.g. mounted on steering wheel)
- Launch control mode (i.e. assisted clutch engagement powered by the integrated control unit)
- External position mode (i.e. target master cylinder position being sent from external control unit via CAN)

The E-Clutch features automatic anti-stall function and its state of the art controller allows to also keep the clutch constantly open over time at a very limited current consumption.

The "SSMD" in its name stands for "self-sufficient marshal disconnect", meaning that the unit is featuring the functionality to comply with the FIA safety requirement of being able to externally disconnect the drive train in case of a stranded car with stalled engine & car master switch OFF.

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Technical specifications

Electronic data:

Operating voltage 9.0..18.0V
Standby current < 0.5 A
Peak current max. 30A
Circuit breaker not integrated
Recommended external circuit breaker ETA, 452 K34 FN2 50A
Powerbox channel requirements: 35A for 100 ms



Mechanical data:

Dimensions with master cylinder L x W x H approx. $223 \times 60 \times 99 \text{ mm}$ Dimensions without master cylinder L x W x H approx. $144 \times 60 \times 99 \text{ mm}$ Weight (incl. master cylinder) 995 g Master cylinder modified AP Racing "CP2623" cylinder Max. working travel of actuator 19.0 mm



Hydraulic data:

Max. hydraulic clutch pressure

Approved fluids

Glycol-ether-/ silicon-based brake fluids (DOT3, DOT4, DOT5.0, DOT5.1) - No hydraulic oil



Connector:

Deutch 22 pin AS212-35PN
Deutch 22 socket, loom side AS612-35SN



Temperature range:

Ambient -25 °C ... +65 °C

Hazardous goods classification:





Standard shipping as well as air freighting possible.



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The E-Clutch Actuator SSMD version 212-011-011 can be equipped with a master cylinder from AP Racing's CP2623 product line in order to be able to adapt the actuator to your specific clutch setup in an easy and efficient way (Attention: AP standard cylinder has to be modified for usage!)

Order-/part no.'s:

Master cylinder diameter	Order no.	Article no.
0.7" / 17.8mm (blue)	15049	212-011-011
0.75" / 19.05mm (green)	15731	212-011-011_0.75
7/8" / 22.20mm (red)	15860	212-011-011_7/8
15/16" / 23.80mm (white)	15831	212-011-011_15/16

All further available master cylinder diameters on request.



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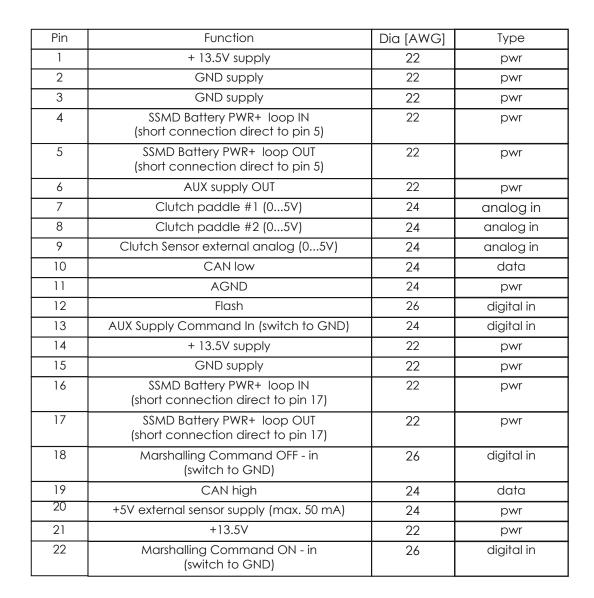
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CAN communication:

Baud rate:

1 MBaud
(varying Baud rates on request)
Termination resistor:

not integrated

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Drawings

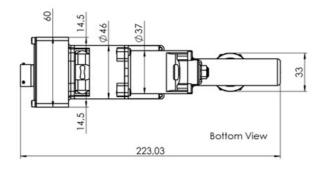


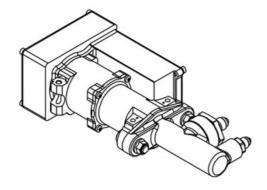
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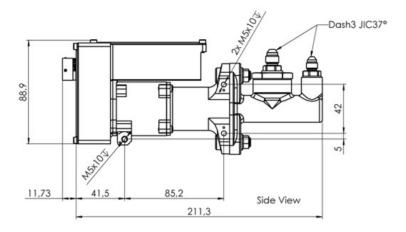
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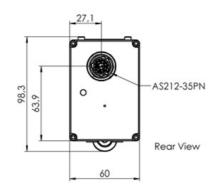
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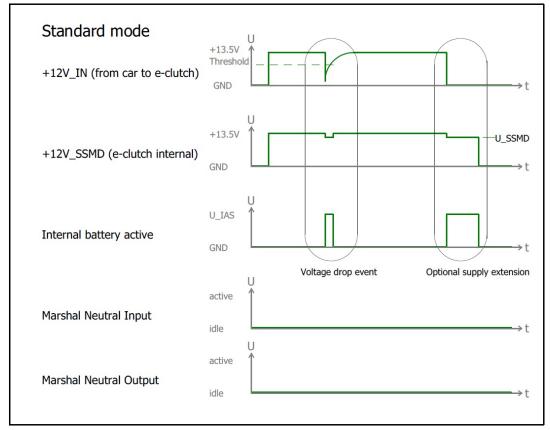
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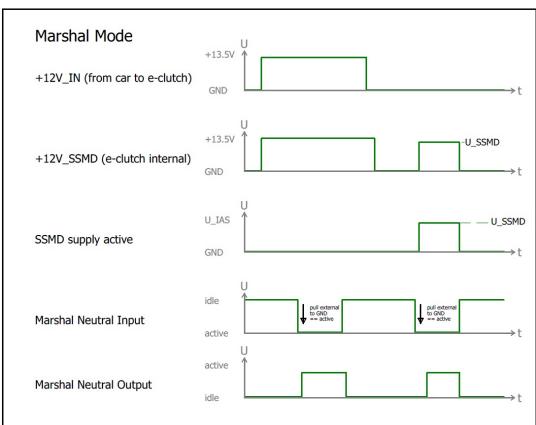
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Operation diagram





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