MOTORSPORT | MAGNETI MARELLI

# SP-WRC2
## Switch panel with 15 buttons

## Description

SP-WRC2 is an intelligent membrane switch panel which enables to control Magneti Marelli Power Boxes with the backlit membrane keyboard buttons and LEDs. As a part of Magneti Marelli power control system it communicates over a CAN with Magneti Marelli ECUs.

Layouts (button colours and symbols) can be modified to the customer requirements.

15 or optional 21 buttons with different layouts available upon customer request.

## Main Features

- *Easy to install*
- *Easy to use*
- *15 membrane buttons with backlighting adjustable via CAN*
- *15 LEDs with signal functions attached to buttons state: 3 colour state (green/yellow/red)*
- *1 CAN communication bus*

## Benefits

- *Enables intelligent control of electric devices over CAN*
- *Communicates with Magneti Marelli Power Distribution Unit – enables intelligent diagnosis functions on controlled devices*
- *Depending on SW configuration it can be used in various applications*

## Typical Applications

Rally cars
One make race series
Touring cars

# SP-WRC2
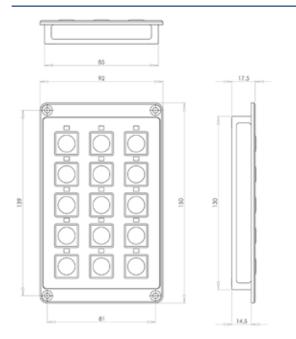## Switch panel with 15 buttons

## Technical Characteristics

### Inputs

| | |
|---|---|
| Input buttons | 15 (21 optional) |
| "Code Load" enable pin | 1 |

### Outputs

| | |
|---|---|
| Gauge LEDs (R-G dual colour) | 15 |

### Communications

| | |
|---|---|
| CAN line (1 Mbit/s (*)) | 1 |

(*) Configurable on request

### Other Characteristics

| | |
|---|---|
| Power supply | 8 to 18 V |
| Operating temperature range | - 20 to 65 °C |
| Protection class | IP 65 |
| Connector | ASL 6 06-05 PN HE |
| Dimensions | |
| without cable and connector | 150 x 92 x 17,5 mm |
| Weight (approx.) | 195 g |

## Dimensions



Dimensions in millimetres

## Connector Pin Out

| ASL 6 06-05 PN HE CONNECTOR PINOUT | |
|---|---|
| 1 | Supply Voltage 12V |
| 2 | CAN H |
| 3 | CAN L |
| 4 | ENCP |
| **5** | GND |

## Application Schematics



ENGINE CONTROL UNIT

POWER LOAD

Serial current loop

ETHERNET

POWER BOX

CAN Bus

DASHBOARD

SWITCH PANEL