

## Ignition Module IM 4

This ignition module IM is an external ignition power stage capable of supplying up to four non-transistorized ignition coils.

The IM input signal should be supplied by an ECU with ignition signal outputs in the range of 10 to 20 mA (e.g. MS 4 Sport/MS 4.4 Sport).

The IM unit combines the robustness of a high quality production part with good electrical performance to provide an ideal solution for adapting non-transistorized coils to an ECU without internal ignition driver stages.



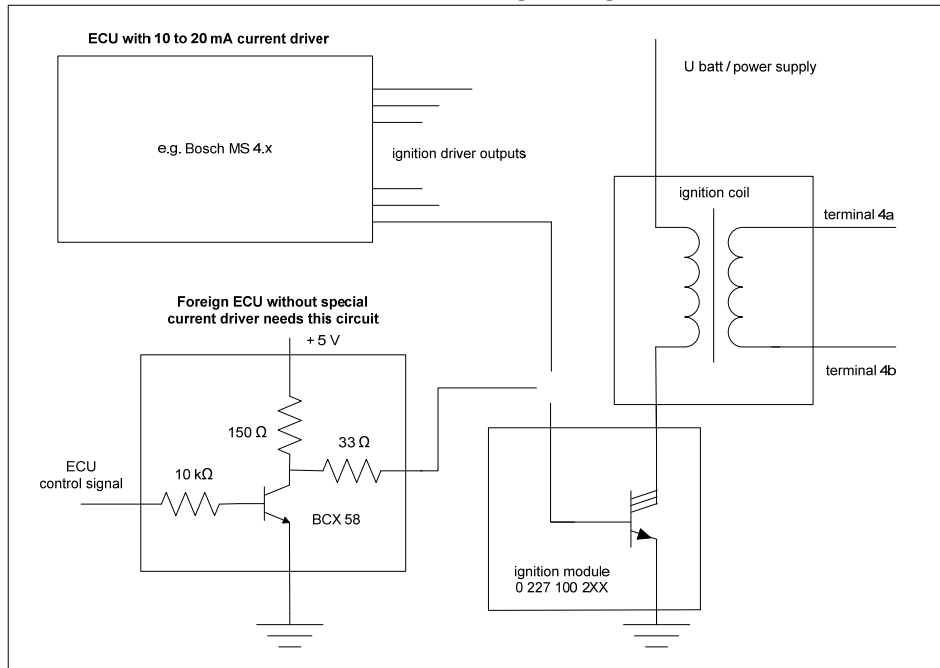
Application	
Primary current	≤ 8.5 A
Clamp voltage	380 V ±30 V
Operating temperature range @ measuring point	-40 ... 120 °C
Storage temperature range	-40 ... 130 °C
Max. vibration	400 m/s <sup>2</sup> @ 5 ... 2,500 Hz

Electrical Data	
U <sub>Batt</sub> typical	13.5 V
Voltage supply	6 ... 16.5 V
I <sub>B</sub> high active on	min. 10 mA
I <sub>B</sub> low off	0 mA
I <sub>B</sub>	10 ... 22 mA
I <sub>C</sub> typical	< 8.5 A
I <sub>C</sub> max. @ T <sub>U</sub> < 120 °C	< 10 A
U <sub>CE Satt</sub> @ I <sub>C</sub> = 5 A	< 3 V
U <sub>CE Satt</sub> @ I <sub>C</sub> max	< 9 V

Mechanical Data	
Size	70.5 x 68 x 20 mm
Weight w/o wire	54 g
Mounting	2 x M4 screws with spring washer

Characteristic	
Characteristic dwell time	see characteristic dwell time from the ignition coil used
Internal transistor	triple Darlington

## Electronic circuit for connecting the ignition module IM 4



### Connectors

#### Connector 1 Four Pin Connector

Connector	Bosch Jetronic 4-pin
Mating connector	D 261 205 351-01
Pin 1	Collector Transistor 4
Pin 2	Collector Transistor 3
Pin 3	Collector Transistor 2
Pin 4	Collector Transistor 1

#### Connector 2 Five Pin Connector

Connector	Bosch Jetronic 5-pin
Mating connector	D 261 205 352-01
Pin 1	Basis Transistor 1
Pin 2	Basis Transistor 2
Pin 3	Gnd
Pin 4	Basis Transistor 3
Pin 5	Basis Transistor 4

### Application Hint

The ignition module 4 can be used with: Coils 2x2, 3x2, P35, P35-T and PS or comparable coils.

Please ensure that the connectors are safe from water.

The IM has to be mounted onto a cooling body. The mounting surface needs a planarity of 0.2 mm.

A heat conductive paste has to be used.

This ignition module is designed for use with engine control units which have no integrated ignition transistor.

Please observe the specified limit values.

### Part Number

Ignition Module IM 4 **0 227 100 211**

**Dimensions IM 4**
