

# Ignition Module IM 4

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**BOSCH**  
Invented for life



- Max. 4 cylinders
- 54 g
- Fits to all MS 4 ECUs
- Especially adapted for Coils PS, P35, P50(-M), P65, 2x1, 2x2 and 3x2

This module 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.

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	$\leq 8.5 \text{ A}$
Clamp voltage	$380 \pm 30 \text{ V}$
Operating temperature range at measuring point	$-40 \text{ to } 120^\circ\text{C}$
Storage temperature range	$-40 \text{ to } 130^\circ\text{C}$
Max. vibration	$400 \text{ m/s}^2$ at 5 to 2,500 Hz

## Technical Specifications

### Mechanical Data

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

### Electrical Data

$U_{\text{Batt}}$ typical	13.5 V
Voltage supply	6 to 16.5 V
$I_{\text{B}}$ high active on	min. 10 mA
$I_{\text{B}}$ low off	0 mA
$I_{\text{B}}$	10 to 22 mA
$I_{\text{C}}$ typical	$< 8.5 \text{ A}$
$I_{\text{C}}$ max. at $T_{\text{U}} < 120^\circ\text{C}$	$< 10 \text{ A}$
$U_{\text{CE}}$ satt at $I_{\text{C}} = 5 \text{ A}$	$< 3 \text{ V}$
$U_{\text{CE}}$ satt at $I_{\text{C}}$ max	$< 9 \text{ V}$

## Connectors and Wires

<b>Connector (Coil T1)</b>	<b>Bosch Jetronic 4-pole</b>
Mating connector Jetronic 4-pole	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
<b>Connector (ECU)</b>	<b>Bosch Jetronic 5-pole</b>
Mating connector Jetronic 5-pole	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

## Installation Notes

This ignition module can be used with Coils PS, P35, P50(-M), P65, 2x1, 2x2, 3x2 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.

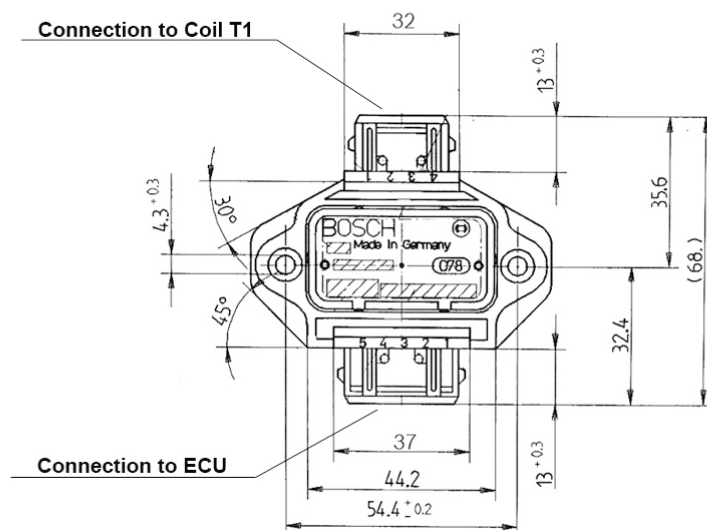
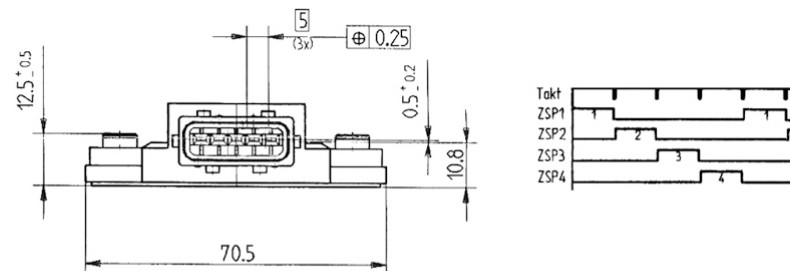
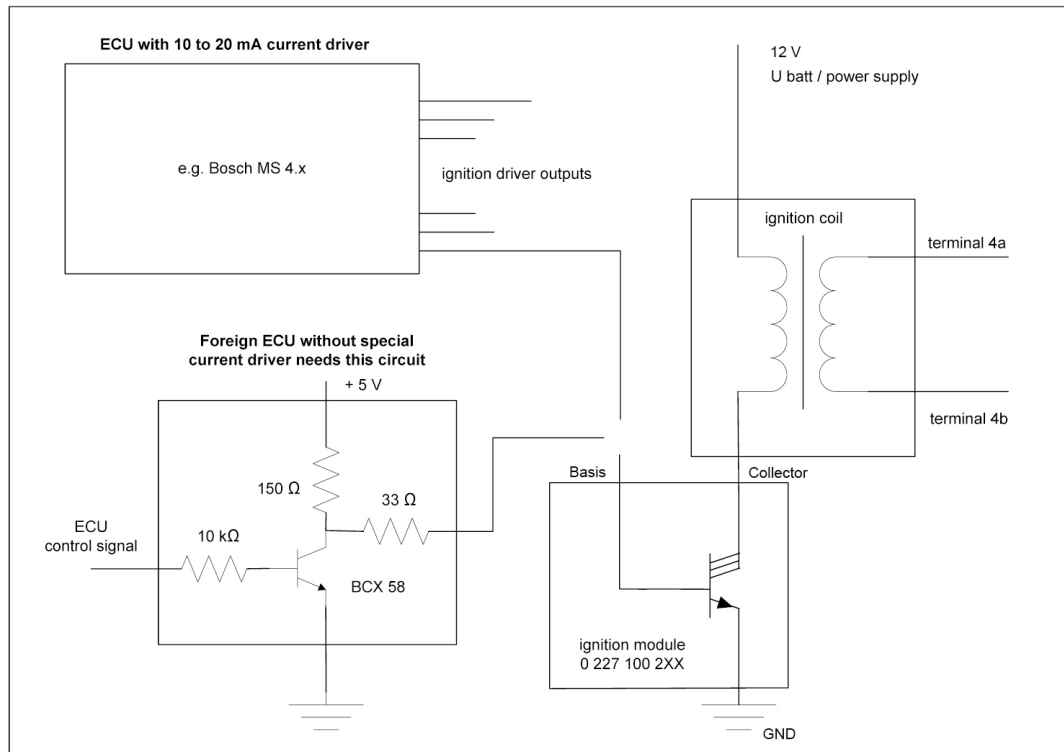
Please observe the specified limit values.

## Ordering Information

### Ignition Module IM 4

Order number **0 227 100 211**

## Dimensions



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