



HPI 1.1



- ▶ **Max. 6 cylinders**
- ▶ **Max. 9,000 rpm (4 cyl. operation)**
- ▶ **430 g**

The injector power stage HPI 1.1 is a device for driving injectors for gasoline direct injection. Combined with a suitable ECU up to 6 injectors can be driven. The injectors are gathered in 3 groups of 2 injectors each. Within a group only one injector can be switched on at the same time. The 3 groups are totally independent, so that overlapping injection of injectors of different groups is possible. Communication between main ECU and the HPI 1.1 is realized via CAN interface.

Application

Max. number of cylinders	6
Max. rpm (4 cyl. operation)	9,000
Max. rpm (6 cyl. operation)	6,000
Optimized for Bosch high pressure injection valves HDEV 1 and HDEV 5	
Max. vibration	Vibration profile 2 (see Appendix or www.bosch-motorsport.com)

Technical Specifications

Variations

	HPI 1.1 Active low	HPI 1.1 Active high
Injection control inputs	Inverting (Low = "ON") for operation with standard lowside power stages of automotive ECUs	Non-inverting (High = "ON")

Mechanical Data

Sheet-metal housing	
Each connector pin individually filtered	
Vibration damped circuit boards	
Housing temperature	-25 to 85°C
Size	180 x 162 x 46 mm
Weight	430 g

Electrical Data

Power supply	14 V
Operating voltage (normal operation)	11 to 16 V
Operating voltage (engine start)	6 to 18 V
Nominal voltage	14 V

Communication

1 CAN (500 kBaud)

1 K-Line

Ordering Information

HPI 1.1 Active low for HDEV 1	F 01T A20 000-01
HPI 1.1 Active low for HDEV 5	F 02U V00 030-01
HPI 1.1 Active high for HDEV 1	F 01E B01 645-01
HPI 1.1 Active high for HDEV 5	F 02U V00 036-01

Europe:
Bosch Engineering GmbH
Motorsport
Robert-Bosch-Allee 1
74232 Abstatt
Germany
Tel.: +49 7062 911 79101
Fax: +49 7062 911 79104
motorsport@bosch.com
www.bosch-motorsport.de

North and South America:
Bosch Engineering North America
Motorsports
38000 Hills Tech Drive
Farmington Hills, MI 48331-3417
United States of America
Tel.: +1 248 876 2977
Fax: +1 248 876 7373
motorsport@bosch.com
www.bosch-motorsport.com

Asia Pacific:
Bosch Engineering Japan K.K.
Motor Sport Department
3-33-8 Tsuruya-cho, Kanagawa-ku, Yokohama-shi
Kanagawa 221-0835
Japan
Tel.: +81 45 410 1650
Fax: +81 45 410 1651

Represented by