

## HPI 1.1

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.



### HPI 1.1 Active low

The injection control inputs of the HPI 1.1 Active low are inverting (Low = "ON") for operation with standard lowside power stages of automotive ECUs.

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/HDEV 5	
Max. vibration	<i>Vibration profile 2</i> (see Appendix or <a href="http://www.bosch-motorsport.com">www.bosch-motorsport.com</a> )

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

Electrical Data	
Power supply	14 V
Operating voltage (normal operation)	11 ... 16 V
Operating voltage (engine start)	6 ... 18 V
Nominal voltage	14.0 V
Communication interfaces	
1 CAN (500 kBaud)	
1 K-Line	
Part Number	
HPI 1.1 Active low (for HDEV 1)	<b>F 01T A20 000-01</b>
HPI 1.1 Active low (for HDEV 5)	<b>F 02U V00 030-01</b>

## HPI 1.1 Active high

The injection control inputs of the HPI 1.1 Active high are non-inverting (High = "ON").

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/HDEV 5	
Max. vibration	<i>Vibration profile 2</i> (see Appendix or <a href="http://www.bosch-motorsport.com">www.bosch-motorsport.com</a> )

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

Electrical Data	
Power supply	14 V
Operating voltage (normal operation)	11 ... 16 V
Operating voltage (engine start)	6 ... 18 V
Nominal voltage	14.0 V

Communication interfaces	
1 CAN (500kBaud)	
1 K-Line	

Part Number	
HPI 1.1 Active high (for HDEV 1)	<b>F 01E B01 645-01</b>
HPI 1.1 Active high (for HDEV 5)	<b>F 02U V00 036-01</b>