

Injection Power Stage HPI 5-M 4C



- ▶ Max. 4 cylinders
- ▶ Max. 15,000 rpm (4 cyl. operation)
- ▶ 400 g

The injector power stage HPI 5-M 4C is a device for driving injectors and high pressure pumps for gasoline direct injection. Combined with a suitable ECU up to 4 injectors can be driven. Overlapping injection of injectors is possible. The HPI 5-M is mainly designed to drive the Bosch high pressure pump HDP 5. Communication between main ECU and the HPI 5-M is realized via CAN interface.

Application

Max. number of cylinders	4
Max. rpm (4 cyl. operation)	15,000
Optimized for Bosch high pressure injection valve HDEV 5 and Bosch high pressure pump HDP 5	

Technical Specifications

Mechanical Data

Aluminum housing	
Each connector pin individually filtered	
Housing temperature	-25 to 100°C
Size (incl. connectors)	167 x 97 x 39 mm
Protection Classification	IP67 to DIN 40050, Section 9, Issue 2008
Weight	400 g

Electrical Data

Voltage supply	14 V
Operating voltage	12 to 16 V
Operation voltage (engine start)	6.5 to 16 V
Nominal voltage	14 V

Connectors and Wires

Mating connector	AS616-26SN
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Pin Configuration

16-26 (size 16) 26#20 7,5 A		
Pin	Name	Comment
A	O_P_FSCVL1	Flow control valve #1 output low side
B	V_V_BAT_R	Battery plus
C	V_V_BAT_R	Battery plus
D	G_G_BAT	Battery minus
E	G_G_BAT	Battery minus
F	O_P_BANK2_LS4_LS6	Injector control output, Low side of HDEV Injector #4
G	O_P_BANK2_HS4_HS6	Injector control output, High side of HDEV Injector #4
H	O_P_BANK1_HS2_HS2	Injector control output, High side of HDEV Injector #2
I	O_P_BANK1_LS2_LS2	Injector control output, Low side of HDEV Injector #2
K	O_P_BANK2_LS3_LS3	Injector control output, Low side of HDEV Injector #3
L	O_P_BANK2_HS3_HS3	Injector control output, High side of HDEV Injector #3
M	O_P_BANK1_HS1_HS1	Injector control output, High side of HDEV Injector #1
N	O_P_BANK1_LS1_LS1	Injector control output, Low side of HDEV Injector #1
P	I_P_HPINJD1_D1	Injector control, input signal for injector #1

16-26 (size 16) 26#20 7,5 A		
R	O_P_FSCVH1	Flow control valve #1 output high side
S	I_P_HPINJD2_D2	Injector control, input signal for injector #2
T	V_V_BAT_R	Battery plus
U	G_G_BAT	Battery minus
V	I_P_1SEL1	Flow control valve #1, input signal "SEL1"
W	I_P_HPINJD4_D6	Injector control, input signal for injector #4
X	I_S_T15	Input "Terminal 15" (Ignition switch)
Y	B_D_CANL	CAN Interface, Signal "CAN Low"
Z	B_D_CANH	CAN Interface, Signal "CAN High"

16-26 (size 16) 26#20 7,5 A		
a	I_P_HPINJD3_D3	Injector control, input signal for injector #3
b	I_P_1SELO	Flow control valve #1, input signal "SELO"
c	I_P_1ON	Flow control valve #1, input signal "ON"

Communication

1 CAN (1 Mbaud)

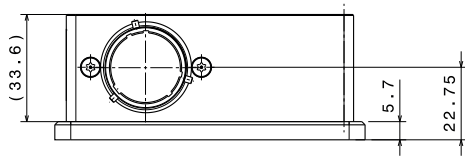
Legal Restrictions

The sale of this product in Mexico is prohibited.

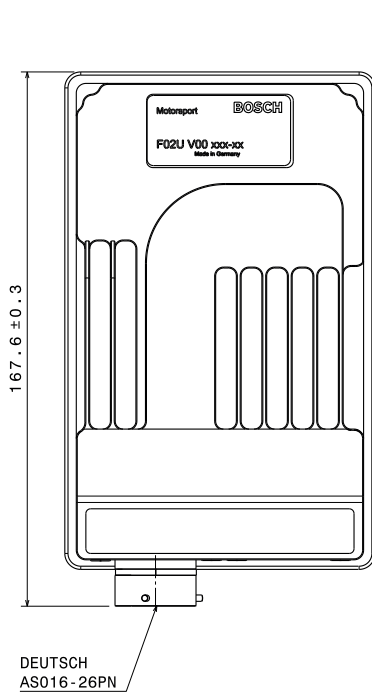
Ordering Information

Injection Power Stage HPI 5-M 4C
Order number **F02U.V01.629-01**

Dimensions

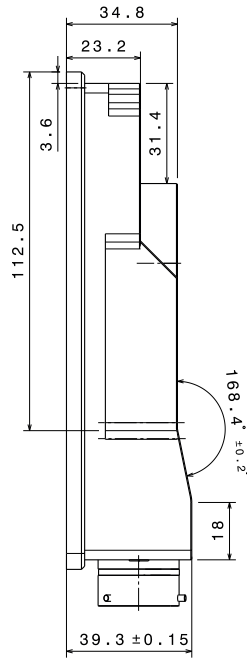


Bottom view
Scale: 1:1

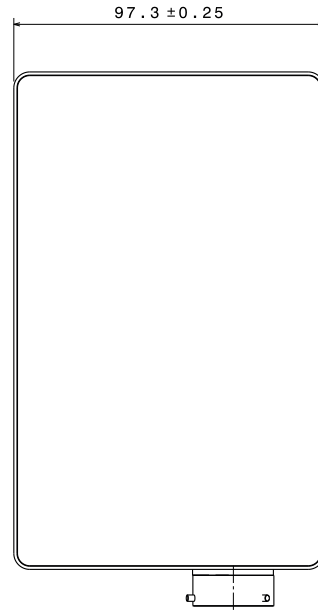


DEUTSCH
AS016-26PN

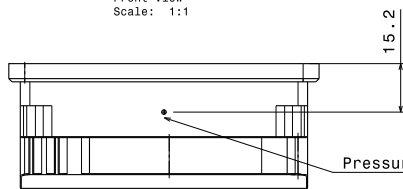
Front view
Scale: 1:1



Left view
Scale: 1:1



Rear view
Scale: 1:1



Top view

Pressure compensation element (PCE)

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