Pinlayout ECU MS 7.4 V2

BOSCH		BOSCH
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An	alo	g In	puts				
S	С	Α	L I/O Type	SIG_NAME	LEAD	DESCRIPTION	FUNCTION ¹⁾
27			analog input	I_A_ANA01	AWG24	universal input 0-5V - pull up switchable	pedal a (fixed)
2			analog input	I_A_ANA02	AWG24	universal input 0-5V - pull up switchable	throttle 1a (fixed)
21			analog input	I_A_ANA03	AWG24	universal input 0-5V - pull up switchable	throttle 2a (fixed)
29			analog input	I_A_ANA04	AWG24	universal input 0-5V - pull up switchable	tamb
3			analog input	I_A_ANA05	AWG24	universal input 0-5V - pull up switchable	tfuel
20			analog input	I_A_ANA06	AWG24	universal input 0-5V - pull up switchable	pbrake_f
47			analog input	I_A_ANA07	AWG24	universal input 0-5V - pull up switchable	pbrake_r
46			analog input	I_A_ANA08	AWG24	universal input 0-5V - pull up switchable	poil
12			analog input	I_A_ANA09	AWG24	universal input 0-5V - pull up switchable	pwat
28			analog input	I_A_ANA10	AWG24	universal input 0-5V - pull up switchable	pclutch
53			analog input	I_A_ANA11	AWG24	universal input 0-5V - pull up switchable	utint
38			analog input	I_A_ANA12	AWG24	universal input 0-5V - pull up switchable	pfuel
45			analog input	I_A_ANA13	AWG24	universal input 0-5V - pull up switchable	toil
37			analog input	I_A_ANA14	AWG24	universal input 0-5V - pull up switchable	tmot2
7			analog input	I_A_ANA15	AWG24	universal input 0-5V - pull up switchable	tmot
8			analog input	I_A_ANA16	AWG24	universal input 0-5V - pull up switchable	prail
13			analog input	I_A_ANA17	AWG24	universal input 0-5V - pull up switchable	pedal b (fixed)
6			analog input	I_A_ANA18	AWG24	universal input 0-5V - pull up switchable	throttle 1b (fixed)
14			analog input	I_A_ANA19	AWG24	universal input 0-5V - pull up switchable	throttle 2b (fixed)
1			analog input	I_A_ANA20	AWG24	universal input 0-5V - pull up switchable	prail2
19			analog input	I_A_ANA21	AWG24	universal input 0-5V - pull up switchable	toil2
	60		analog input	I_A_ANA22	AWG24	universal input 0-5V - pull up switchable	gear
	46		analog input	I_A_ANA23	AWG24	universal input 0-5V - pull up switchable	pcrank
	28		analog input	I_A_ANA24	AWG24	universal input 0-5V - pull up switchable	pgear
	54		analog input	I_A_ANA25	AWG24	universal input 0-5V - pull up switchable	pservo
	39		analog input	I_A_ANA26	AWG24	universal input 0-5V - pull up switchable	shiftupsw
	38		analog input	I_A_ANA27	AWG24	universal input 0-5V - pull up switchable	shiftdnsw
	47		analog input	I_A_ANA28	AWG24	universal input 0-5V - pull up switchable	sdam_fl
	61		analog input	I_A_ANA29	AWG24	universal input 0-5V - pull up switchable	sdam_fr
	55		analog input	I_A_ANA30	AWG24	universal input 0-5V - pull up switchable	sdam_rl

Analog Inputs

S	С	Α	L	I/O Type	SIG_NAME	LEAD	DESCRIPTION	FUNCTION ¹⁾
	48			analog input	I_A_ANA31	AWG24	universal input 0-5V - pull up switchable	sdam_rr
	62			analog input	I_A_ANA32	AWG24	universal input 0-5V - pull up switchable	steer
	53			analog input	I_A_ANA33	AWG24	universal input 0-5V - pull up switchable	p1
	45			analog input	I_A_ANA34	AWG24	universal input 0-5V - pull up switchable, Voltage devider switchable to 0-26V	tgear
	37			analog input	I_A_ANA35	AWG24	universal input 0-5V - pull up switchable, Voltage devider switchable to 0-26V	tservo
5				analog input	I_A_ANA36_PCYL	AWG24	fast analog input 0-5V - pull up switchable	cylinder pressure recognition 1
10				analog input	I_A_ANA37_PCYL	AWG24	fast analog input 0-5V - pull up switchable	cylinder pressure recognition 2
11				analog input	I_A_ANA38_PCYL	AWG24	fast analog input 0-5V - pull up switchable	cylinder pressure recognition 3
17				analog input	I_A_ANA39_PCYL	AWG24	fast analog input 0-5V - pull up switchable	cylinder pressure recognition 4
25				analog input	I_A_ANA40_PCYL	AWG24	fast analog input 0-5V - pull up switchable	cylinder pressure recognition 5
26				analog input	I_A_ANA41_PCYL	AWG24	fast analog input 0-5V - pull up switchable	cylinder pressure recognition 6
34				analog input	I_A_ANA42_PCYL	AWG24	fast analog input 0-5V - pull up switchable	cylinder pressure recognition 7
4				analog input	I_A_ANA43_PCYL	AWG24	fast analog input 0-5V - pull up switchable	cylinder pressure recognition 8
44				analog input	I_A_ANA44_FADC	AWG24	analog input 0-5V, pull up switch., time or angular synchronism measurement	up21
64				analog input	I_A_ANA45_FADC	AWG24	analog input 0-5V, pull up switch., time or angular synchronism measurement	up21_2
43				analog input	I_A_ANA46_FADC	AWG24	analog input 0-5V, pull up switch., time or angular synchronism measurement	up22
59				analog input	I_A_ANA47_FADC	AWG24	analog input 0-5V, pull up switch., time or angular synchronism measurement	up22_2
52				analog input	I_A_ANA48_FADC	AWG24	analog input 0-5V, pull up switch., time or angular synchronism measurement	reserve
36				analog input	I_A_ANA49_FADC	AWG24	analog input 0-5V, pull up switch., time or angular synchronism measurement	reserve
51				thermocouple	I_A_TEXH1P	twisted pair (AWG24)	Thermocouple 1 +	utexh
58					I_A_TEXH1N	shielded	Thermocouple 1 -	
65				thermocouple	I_A_TEXH2P	twisted pair (AWG24)	Thermocouple 2 +	utexh2
60					I_A_TEXH2N	shielded	Thermocouple 2 -	

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S	С	Α	L	I/О Туре	SIG_NAME	LEAD	DESCRIPTION	FUNCTION ¹⁾
	21			analog / dig input	I_AD_ANADIG01	AWG24	selectable universal input 0-5V / digital input 0-12V - pull up switchable	mapsw
	22			analog / dig input	I_AD_ANADIG02	AWG24	selectable universal input 0-5V / digital input 0-12V - pull up switchable	pitspeedsw
	29			analog / dig input	I_AD_ANADIG03	AWG24	selectable universal input 0-5V / digital input 0-12V - pull up switchable	launchsw
	30			analog / dig input	I_AD_ANADIG04	AWG24	selectable universal input 0-5V / digital input 0-12V - pull up switchable	tcsw
	31			analog / dig input	I_AD_ANADIG05	AWG24	selectable universal input 0-5V / digital input 0-12V - pull up switchable	wetsw
	40			analog / dig input	I_AD_ANADIG06	AWG24	selectable universal input 0-5V / digital input 0-12V - pull up switchable	chressw
	49			analog / dig input	I_AD_ANADIG07	AWG24	selectable universal input 0-5V / digital input 0-12V / SENT - pull up switchable	reserve
	56			analog / dig input	I_AD_ANADIG08	AWG24	selectable universal input 0-5V / digital input 0-12V / SENT - pull up switchable	reserve

Combined Analog/Digital Inputs

Digital Inputs

S	С	Α	L	I/О Туре	SIG_NAME	LEAD	DESCRIPTION	FUNCTION ¹⁾
			43	digital input	I_F_DIG01P_HALL_IND	twisted pair	hall or inductive sensor selectable	CRANK_1+
			44		I_F_DIG01N_HALL_IND	(AWG24) shielded		CRANK_1-
			10	digital input	I_F_DIG02P_HALL_IND	twisted pair	hall or inductive sensor selectable	CRANK_2+
			19		I_F_DIG02N_HALL_IND	(AWG24) shielded		CRANK_2-
			37	digital input	I_F_DIG03_HALL	AWG24	hall sensor	CAM_1
			3	digital input	I_F_DIG04_HALL	AWG24	hall sensor	CAM_2
			11	digital input	I_F_DIG05_HALL_DF11	AWG24	hall or DF11 sensor selectable	speed1 / CAM3
			1	digital input	I_F_DIG06_HALL_DF11	AWG24	hall or DF11 sensor selectable	speed2 / CAM4
			2	digital input	I_F_DIG07_HALL_DF11	AWG24	hall or DF11 sensor selectable	speed3
			6	digital input	I_F_DIG08_HALL_DF11	AWG24	hall or DF11 sensor selectable	speed4
			47	digital input	I_F_DIG09P_HALL_IND	twisted pair	hall or inductive sensor circuit selectable	TURBO_1+
			46		I_F_DIG09N_HALL_IND	(AWG24) shielded		TURBO_1-
			8	digital input	I_F_DIG10P_HALL_IND	twisted pair	hall or inductive sensor circuit selectable	TURBO_2+
			7]	I_F_DIG10N_HALL_IND	(AWG24) shielded		TURBO_2-
			21	digital input	I_S_LAPTRIG	AWG24	lap trigger input	LAPTRIGGER
			57	digital input	I_S_ENGRUN	AWG24	digital input, pull down	Engine Switch

Further Inputs Α I/O Type FUNCTION¹⁾ S С SIG_NAME LEAD DESCRIPTION L AWG24, twisted pair (10), shielded 61 knock sensor 1A I_A_KS1A fast I/O / DIGITAL KNOCK CONTROL Core 1 knock_1A I_A_KS1B AWG24, twisted pair (10), shielded knock_1B 54 knock sensor 1B fast I/O / DIGITAL KNOCK CONTROL Core 1, in case of symm. use reference for sensor 1 62 knock sensor 2A I_A_KS2A AWG24, twisted pair (10), shielded fast I/O / DIGITAL KNOCK CONTROL Core 2 knock_2A 55 knock sensor 2B I_A_KS2B AWG24, twisted pair (10), shielded fast I/O / DIGITAL KNOCK CONTROL Core 2 in case of symm. use reference for sensor 2 knock_2B 66 knock GND G R KS COMMON GND for knock sensors хх 40 4 x AWG24 LAM_1_UN LAMBDA I A LSU1UN 39 LAM_1_VM I A LSU1VM 31 LAM_1_IP I A LSU1IP 32 I_A_LSU1IA LAM_1_IA 30 I_A_LSU2UN LAMBDA 4 x AWG24 LAM_2_UN 22 I_A_LSU2VM LAM_2_VM 23 I_A_LSU2IP LAM_2_IP 33 I_A_LSU2IA LAM_2_IA

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Outputs

S	С	Α	L	I/О Туре	SIG_NAME	LEAD	DESCRIPTION	FUNCTION ¹⁾
		12		lowside switch 4A	O_S_LS01	AWG20		SHIFT_UP
		34		lowside switch 4A	O_S_LS02	AWG20		SHIFT_DN
		17		lowside switch 3A	O_S_LS03	AWG20		WGC_INC
		59		lowside switch 3A	O_S_LS04	AWG20		WGC_DEC
		6		lowside switch 3A	O_S_LS05	AWG20		CAMCTRL_IN
		51		lowside switch 3A	O_S_LS06	AWG20		CAMCTRL_IN2
		43		lowside switch 3A	O_S_LS07	AWG20		CAMCTRL_OUT
		65		lowside switch 3A	O_S_LS08	AWG20		CAMCTRL_OUT
		19		lowside switch 2.2A or INJ1	O_S_LS09	AWG20	to be used as low side switch or high imp. Injectors, no freewheeling, runs only with engine speed	
		52		lowside switch 2.2A or INJ2	O_S_LS10	AWG20	to be used as low side switch or high imp. Injectors, no freewheeling, runs only with engine speed	
		18		lowside switch 2.2A or INJ3	0_S_LS11	AWG20	to be used as low side switch or high imp. Injectors, no freewheeling, runs only with engine speed	
		60		lowside switch 2.2A or INJ4	0_S_LS12	AWG20	to be used as low side switch or high imp. Injectors, no freewheeling, runs only with engine speed	
		10		lowside switch 2.2A or INJ5	O_S_LS13	AWG20	to be used as low side switch or high imp. Injectors, no freewheeling, runs only with engine speed	
		53		lowside switch 2.2A or INJ6	O_S_LS14	AWG20	to be used as low side switch or high imp. Injectors, no freewheeling, runs only with engine speed	
		27		lowside switch 2.2A or INJ7	0_S_LS15	AWG20	to be used as low side switch or high imp. Injectors, no freewheeling, runs only with engine speed	
		61		lowside switch 2.2A or INJ8	O_S_LS16	AWG20	to be used as low side switch or high imp. Injectors, no freewheeling, runs only with engine speed	
		5		lowside switch 2.2A or INJ9	0_S_LS17	AWG20	to be used as low side switch or high imp. injectors or control of external HDEV 9-12, no freewheeling, runs only with engine speed	
		44		lowside switch 2.2A or INJ10	O_S_LS18	AWG20	to be used as low side switch or high imp. injectors or control of external HDEV 9-12, no freewheeling, runs only with engine speed	
		25		lowside switch 2.2A or INJ11	O_S_LS19	AWG20	to be used as low side switch or high imp. injectors or control of external HDEV 9-12, no freewheeling, runs only with engine speed	
		45		lowside switch 2.2A or INJ12	O_S_LS20	AWG20	to be used as low side switch or high imp. injectors or control of external HDEV 9-12, no freewheeling, runs only with engine speed	
		11		lowside switch 2.2A	O_S_LS21	AWG20		MIL
		36		lowside switch 2.2A	O_S_LS22	AWG20		FUELPUMP
		35		lowside switch 2.2A	O_S_LS23	AWG20		WGC_INC2
		64		lowside switch 2.2A	O_S_LS24	AWG20		WGC_DEC2
		26		lowside switch 1A	O_S_LS25	AWG20		MAINRELAY
			14	lowside switch 1A	O_S_LS26	AWG20		STARTER

Outputs

S	С	Α	L	I/O Type	SIG_NAME	LEAD	DESCRIPTION	FUNCTION ¹⁾
		4		lowside switch 3A	O_S_LSH1	AWG20	Lambda Heater Output	LAM_1_HEATER
		58		lowside switch 3A	O_S_LSH2	AWG20	Lambda Heater Output	LAM_2_HEATER
	26			MSV controller	O_P_MSV1P	AWG20		MSV_1P
	35			-	O_P_MSV1N	AWG20		MSV_1N
	18			MSV controller	O_P_MSV2P	AWG20		MSV_2P
	11			-	O_P_MSV2N	AWG20		MSV_2N
		66		H-Bridge 8.5A	O_S_HBR1P	AWG20	for EGAS	EGAS_1P
		62		-	O_S_HBR1N	AWG20		EGAS_1N
		63		H-Bridge 8.5A	O_S_HBR2P	AWG20	for EGAS	EGAS_2P
		57			O_S_HBR2N	AWG20		EGAS_2N
		2		H-Bridge 8.5A	O_S_HBR3P	AWG20		HBRIDGE_1P
		1			O_S_HBR3N	AWG20		HBRIDGE_1N
	34			High Pressure Injection	O_P_INJ1P	AWG20	High Pressure Injection +	INJ_1P
	25				O_P_INJ1N	AWG20	High Pressure Injection -	INJ_1N
	58			High Pressure Injection	O_P_INJ2P	AWG20	High Pressure Injection +	INJ_2P
	59				O_P_INJ2N	AWG20	High Pressure Injection -	INJ_2N
	52			High Pressure Injection	O_P_INJ3P	AWG20	High Pressure Injection +	INJ_3P
	44				O_P_INJ3N	AWG20	High Pressure Injection -	INJ_3N
	5			High Pressure Injection	O_P_INJ4P	AWG20	High Pressure Injection +	INJ_4P
	4				O_P_INJ4N	AWG20	High Pressure Injection -	INJ_4N
	10			High Pressure Injection	O_P_INJ5P	AWG20	High Pressure Injection +	INJ_5P
	17				O_P_INJ5N	AWG20	High Pressure Injection -	INJ_5N
	51			High Pressure Injection	O_P_INJ6P	AWG20	High Pressure Injection +	INJ_6P
	43				O_P_INJ6N	AWG20	High Pressure Injection -	INJ_6N
	6			High Pressure Injection	O_P_INJ7P	AWG20	High Pressure Injection +	INJ_7P
	27				O_P_INJ7N	AWG20	High Pressure Injection -	INJ_7N
	2			High Pressure Injection	O_P_INJ8P	AWG20	High Pressure Injection +	INJ_8P
	1				O_P_INJ8N	AWG20	High Pressure Injection -	INJ_8N
		50		Ignition	O_P_IGN01	AWG20/AWG24	selectable int. ignition power stage or ignition driver	IGN_1
_		3		Ignition	O_P_IGN02	AWG20/AWG24	selectable int. ignition power stage or ignition driver	IGN_2
		33		Ignition	O_P_IGN03	AWG20/AWG24	selectable int. ignition power stage or ignition driver	IGN_3
		9		Ignition	O_P_IGN04	AWG20/AWG24	selectable int. ignition power stage or ignition driver	IGN_4
		24		Ignition	O_P_IGN05	AWG20/AWG24	selectable int. ignition power stage or ignition driver	IGN_5
		8		Ignition	O_P_IGN06	AWG20/AWG24	selectable int. ignition power stage or ignition driver	IGN_6

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S	С	Α	L	I/О Туре	SIG_NAME	LEAD	DESCRIPTION	FUNCTION ¹⁾
		42		Ignition	O_P_IGN07	AWG20/AWG24	selectable int. ignition power stage or ignition driver	IGN_7
		16		Ignition	O_P_IGN08	AWG20/AWG24	selectable int. ignition power stage or ignition driver	IGN_8
		7		Ignition	O_P_IGN09	AWG24	ignition driver cyl 9-12	IGN_9
		20		Ignition	O_P_IGN10	AWG24	ignition driver cyl 9-12	IGN_10
		13		Ignition	O_P_IGN11	AWG24	ignition driver cyl 9-12	IGN_11
		14		Ignition	O_P_IGN12	AWG24	ignition driver cyl 9-12	IGN_12
		46		MOOG Control	O_A_MOOG1P	AWG24	H-Bridge 12mA +	
		38			O_A_MOOG1N	AWG24	H-Bridge 12mA -	
		54		MOOG Control	O_A_MOOG2P	AWG24	H-Bridge 12mA +	
		47			O_A_MOOG2N	AWG24	H-Bridge 12mA -	
		39		MOOG Control	O_A_MOOG3P	AWG24	H-Bridge 12mA +	
		48			O_A_MOOG3N	AWG24	H-Bridge 12mA -	
		40		MOOG Control	O_A_MOOG4P	AWG24	H-Bridge 12mA +	
		31			O_A_MOOG4N	AWG24	H-Bridge 12mA -	
			29	DIAG_MUX	O_A_MUX1	AWG24 shielded	PushPull driver, Diagnosis Multiplexer (KS1A, eng. speed, int. Signals)	MUXCTRL_CH1
			30		O_A_MUX2	AWG24 shielded	PushPull driver, Diagnosis Multiplexer (KS1B, cam speed, int. Signals)	MUXCTRL_CH2
			38		O_A_MUX3	AWG24 shielded	PushPull driver, Diagnosis Multiplexer (KS2A, cam speed, int. Signals)	MUXCTRL_CH3
			39		O_A_MUX4	AWG24 shielded	PushPull driver, Diagnosis Multiplexer (KS2B, cam speed, int. Signals)	MUXCTRL_CH4
			31		O_A_MUX5	AWG24 shielded	PushPull driver, Diagnosis Multiplexer (MF1, MF2, MF combined, cam speed, int. Signals)	MUXCTRL_CH5

Communication											
S	С	Α	L	I/O Type	SIG_NAME	LEAD	DESCRIPTION	FUNCTION			
			48	CAN Bus 1	BI_CAN1_H	CAN-Ltg	up to 1Mbit/s, switchable Terminator	CAN_1_H, use for Motronic, Powerbox, HPI and ABS control functions			
			56	-	BI_CAN1_L	-		CAN_1_L			
			62	CAN Bus 2	BI_CAN2_H	CAN-Ltg	up to 1Mbit/s, switchable Terminator	CAN_2_H, use for external ECU / gearbox control			
			55		BI_CAN2_L			CAN_2_L			
			12	CAN Bus 3	BI_CAN3_H	CAN-Ltg	up to 1Mbit/s, switchable Terminator	CAN_3_H, use for measurement purposes			
			13	-	BI_CAN3_L	-		CAN_3_L			
			66	Gigabit	BI_GETH_D1+_TX+	Ethernet Ltg. (CAT6),	1000 Mbit/s	GETH_0P (Application Interface)			
			61	Ethernet	BI_GETH_D1TX-	shielded to G_C_COMSCR		GETH_0N (Application Interface)			
			65		BI_GETH_D2+_RX+			GETH_1P (Application Interface)			

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Communication

S C A	L	I/O Type	SIG_NAME	LEAD	DESCRIPTION	FUNCTION
	54		BI_GETH_D2RX-			GETH_1N (Application Interface)
	64		BI_GETH_D3+			GETH_2P (Application Interface)
	60		BI_GETH_D3-			GETH_2N (Application Interface)
	59		BI_GETH_D4+			GETH_3P (Application Interface)
	53		BI_GETH_D4-			GETH_3N (Application Interface)
	26	100 Mbit	BI_ETH1_RX+	Ethernet Ltg. (CAT5),	100 Mbit/s	ETH1RX+
	25	Ethernet	BI_ETH1_RX-	shielded to G_C_COMSCR		ETH1RX-
	18		BI_ETH1_TX+			ETH1TX+
	17		BI_ETH1_TX-			ETH1TX-
	35	100 Mbit	BI_ETH2_RX+	Ethernet Ltg. (CAT5),	100 Mbit/s	ETH2RX+
	34	Ethernet	BI_ETH2_RX-	shielded to G_C_COMSCR		ETH2RX-
	36		BI_ETH2_TX+			ETH2TX+
	27		BI_ETH2_TX-			ETH2TX-
	42	Realtime	BI_RETH1_RX+	Ethernet Ltg. (CAT5),	100MBit/s Ring Output 1	RETH1RX+
	41	Network SERCOS	BI_RETH1_RX-	shielded to G_C_COMSCR		RETH1RX-
	50	0LIN000	BI_RETH1_TX+	-		RETH1TX+
	49		BI_RETH1_TX-			RETH1TX-
	24		BI_RETH2_RX+	Ethernet Ltg. (CAT5),	100MBit/s Ring Output 2	RETH2RX+
	23		BI_RETH2_RX-	shielded to G_C_COMSCR		RETH2RX-
	33		BI_RETH2_TX+			RETH2TX+
	32		BI_RETH2_TX-			RETH2TX-
	15	RS232	BI_RS232_RX	AWG24	Serial interface	RS232_RX
	16		BI_RS232_TX	AWG24		RS232_TX
	51	USB	BI_USB_DP	USB Ltg.	USB interface, supply 5V/500mA	USB_DP
	45		BI_USB_DN			USB_DN
	58		G_R_USBGND			USB_GND
	52		O_V_USB5V			USB_5V
	9	LIN Bus	BI_LIN	AWG24, shielded	LIN interface	LIN
	22	TIMEBASE	BI_TIMESYNC	AWG24	Timesync line between Bosch devices	SYNC

Supply

S C A	L	I/O Type	SIG_NAME	LEAD	DESCRIPTION	FUNCTION
	63	Supply In	V_UBAT	AWG20	ECU Processor Supply	
	5	Supply In	V_DYNPWR	AWG20	ECU Supply	
28		Supply In	V_DYNPWR	AWG20	ECU Supply	
30		Supply In	V_DYNPWR	AWG20	ECU Supply	
13		Supply In	V_DYNPWR_BOOST	AWG20	ECU Booster Supply	
15		Supply In	V_DYNPWR_BOOST	AWG20	ECU Booster Supply	
32		Supply In	V_DYNPWR_BOOST	AWG20	ECU Booster Supply	
33		Supply In	V_DYNPWR_BOOST	AWG20	ECU Booster Supply	
36		Supply In	V_DYNPWR_BOOST	AWG20	ECU Booster Supply	
41		Supply In	V_DYNPWR_BOOST	AWG20	ECU Booster Supply	
42		Supply In	V_DYNPWR_BOOST	AWG20	ECU Booster Supply	
50		Supply In	V_DYNPWR_BOOST	AWG20	ECU Booster Supply	
64		Supply In	V_DYNPWR_BOOST	AWG20	ECU Booster Supply	
	4	Ground In	G_DYNGND	AWG20	DYN Ground	
3		Ground In	G_DYNGND	AWG20	DYN Ground	
22		Ground In	G_DYNGND	AWG20	DYN Ground	
29		Ground In	G_DYNGND	AWG20	DYN Ground	
32		Ground In	G_DYNGND	AWG20	DYN Ground	
56		Ground In	G_DYNGND	AWG20	DYN Ground	
7		Ground In	G_DYNGND_BOOST	AWG20	ECU Booster Ground	
8		Ground In	G_DYNGND_BOOST	AWG20	ECU Booster Ground	
9		Ground In	G_DYNGND_BOOST	AWG20	ECU Booster Ground	
12		Ground In	G_DYNGND_BOOST	AWG20	ECU Booster Ground	
14		Ground In	G_DYNGND_BOOST	AWG20	ECU Booster Ground	
16		Ground In	G_DYNGND_BOOST	AWG20	ECU Booster Ground	
20		Ground In	G_DYNGND_BOOST	AWG20	ECU Booster Ground	
23		Ground In	G_DYNGND_BOOST	AWG20	ECU Booster Ground	
24		Ground In	G_DYNGND_BOOST	AWG20	ECU Booster Ground	
15		Ground In	G_DYNGND_IGN	AWG20	ECU Ignition Ground	
21		Ground In	G_DYNGND_IGN	AWG20	ECU Ignition Ground	
23		Ground In	G_DYNGND_IGN	AWG20	ECU Ignition Ground	
41		Ground In	G_DYNGND_IGN	AWG20	ECU Ignition Ground	
49		Ground In	G_DYNGND_IGN	AWG20	ECU Ignition Ground	
55		Ground In	G_DYNGND_IGN	AWG20	ECU Ignition Ground	

Supply

S	С	Α	L	I/O Type	SIG_NAME	LEAD	DESCRIPTION	FUNCTION
			20	Ground In	G_ECUGND	AWG20	ECU Ground	
			40	Ground Out	G_C_COMSCR	AWG24	connection for communication screen	
			28	Ground Out	G_C_USBSCR	AWG24	connection for USB screen	
35				Ground Out	G_C_SENSSCR	AWG24	connection for signal screens	
	19			Ground Out	G_C_SENSSCR	AWG24	connection for signal screens	
		37		Ground Out	G_C_ACTSCR	AWG24	connection for actuator screens	
42				Supply Out	O_V_SENS5_APS1	AWG24	sensor supply 5V, ca. 50mA, for aps a	
50				Supply Out	O_V_SENS5_APS2	AWG24	sensor supply 5V, ca. 50mA, for aps b	
56				Supply Out	O_V_SENS5_THR1	AWG24	sensor supply 5V, ca. 50mA, for throttle poti(s) a	
48				Supply Out	O_V_SENS5_THR2	AWG24	sensor supply 5V, ca. 50mA, for throttle poti(s) b	
24				Supply Out	O_V_SENS5_1	AWG24	sensor supply 5V, ca. 400mA	
9				Supply Out	O_V_SENS5_2	AWG24	sensor supply 5V, ca. 400mA	
	66			Supply Out	O_V_SENS5_3	AWG24	sensor supply 5V, ca. 400mA	
	63			Supply Out	O_V_SENS_BAT	AWG24	sensor supply ubat, ca. 250mA	
41				Ground Out	G_R_SENS5_APS1	AWG24	sensor ground for aps a	
49				Ground Out	G_R_SENS5_APS2	AWG24	sensor ground for aps b	
63				Ground Out	G_R_SENS5_THR1	AWG24	sensor ground for throttle poti(s) a	
57				Ground Out	G_R_SENS5_THR2	AWG24	sensor ground for throttle poti(s) b	
16				Ground Out	G_R_SENS5_1	AWG24	sensor ground	
15				Ground Out	G_R_SENS5_2	AWG24	sensor ground	
	65			Ground Out	G_R_SENS5_3	AWG24	sensor ground	
	57			Ground Out	G_R_SENS_BAT	AWG24	sensor ground	
18				Ground Out	G_R_PCYL	AWG24	sensor ground for cylinder pressure sensors	

¹⁾ Pin to function allocation is configurable for selected ECU pins. For details, please refer to chapter ECUPINS of the software function sheet.

Represented by

Bosch Engineering GmbH Motorsport Robert-Bosch-Allee 1 74232 Abstatt Germany Tel.: +49 7062 911 9101 Fax: +49 7062 911 79104 motorsport@bosch.com www.bosch-motorsport.com