

Pinlayout VCU MS 50.4/MS 50.4P

Connector LIFE, Mating Connector **AS618-35SN**

Pin	I/O	Signal	Level, Power
LIFE 01	I/O	BI_CAN7_H	0 to 5 V
LIFE 02	I/O	BI_CAN7_L	0 to 5 V
LIFE 03	I	I_DIGIN04_HALL_DF11	0 to 5 V
LIFE 04	I	I_DIGIN09	0 to 5 V
LIFE 05	I/O	BI_CAN8_H	0 to 5 V
LIFE 06	I	I_DIGIN10	0 to 5 V
LIFE 07	I/O	BI_CAN4_H	0 to 5 V
LIFE 08	I/O	BI_CAN4_L	0 to 5 V
LIFE 09	I/O	BI_LIN	0 to 12 V
LIFE 10	I	I_DIGIN02_HALL_DF11	0 to 5 V
LIFE 11	I/O	BI_CAN8_L	0 to 5 V
LIFE 12	I/O	BI_CAN3_H	0 to 5 V
LIFE 13	I/O	BI_CAN3_L	0 to 5 V
LIFE 14	I	I_DIGIN13	0 to 5 V
LIFE 15	I/O	B_D_RS232_RX	12 V
LIFE 16	I/O	B_D_RS232_TX	12 V
LIFE 17	I/O	B_D_ETH2TXN	ETH
LIFE 18	I/O	B_D_ETH2TXP	ETH
LIFE 19	I	I_DIGIN14	0 to 5 V
LIFE 20	G	GND	GND
LIFE 21	I	I_S_LAPTRIG	0 to 5 V
LIFE 22	I/O	BI_TIMESYNC	0 to 5 V
LIFE 23	I/O	B_D_SERCOS2RXN	ETH
LIFE 24	I/O	B_D_SERCOS2RXP	ETH
LIFE 25	I/O	B_D_ETH2RXN	ETH
LIFE 26	I/O	B_D_ETH2RXP	ETH
LIFE 27	I/O	B_D_ETH3TXN	ETH
LIFE 28	G	G_USB_SCR	GND, 2 A fused
LIFE 29	I	I_DIGIN15	0 to 5 V
LIFE 30	I/O	BI_CAN5_H	0 to 5 V
LIFE 31	I/O	BI_CAN5_L	0 to 5 V
LIFE 32	I/O	B_D_SERCOS2TXN	ETH
LIFE 33	I/O	B_D_SERCOS2TXP	ETH
LIFE 34	I/O	B_D_ETH3RXN	ETH
LIFE 35	I/O	B_D_ETH3RXP	ETH
LIFE 36	I/O	B_D_ETH3TXP	ETH
LIFE 37	I	I_DIGIN03_HALL_DF11	0 to 5 V
LIFE 38	I/O	BI_CAN6_H	0 to 5 V
LIFE 39	I/O	BI_CAN6_L	0 to 5 V
LIFE 40	G	G_COMSCR	GND, 2 A fused
LIFE 41	I/O	B_D_SERCOS1RXN	ETH

LIFE 42	I/O	B_D_SERCOS1RXP	ETH
LIFE 43	I	I_DIGIN01_HALL_DF11	0 to 5 V
LIFE 44	G	G_DIGIN	GND, 2 A fused
LIFE 45	I/O	BI_USB_DN	USB
LIFE 46	I	I_DIGIN11	0 to 5 V
LIFE 47	I	I_DIGIN12	0 to 5 V
LIFE 48	I/O	BI_CAN1_H	0 to 5 V
LIFE 49	I/O	B_D_SERCOS1TXN	ETH
LIFE 50	I/O	B_D_SERCOS1TXP	ETH
LIFE 51	I/O	BI_USB_DP	USB
LIFE 52	O	O_V_USB_VDD	float
LIFE 53	I	I_DIGIN08_HALL	0 to 5 V
LIFE 54	I/O	B_D_ETH1RXN	ETH
LIFE 55	I/O	BI_CAN2_L	0 to 5 V
LIFE 56	I/O	BI_CAN1_L	0 to 5 V
LIFE 57	I	I_DIGIN16	0 to 5 V
LIFE 58	O	G_USB_GND	float
LIFE 59	I	I_DIGIN07_HALL	0 to 5 V
LIFE 60	I	I_DIGIN06_HALL	0 to 5 V
LIFE 61	I/O	B_D_ETH1TXN	ETH
LIFE 62	I/O	BI_CAN2_H	0 to 5 V
LIFE 63	V	V_UBAT	VBAT
LIFE 64	I	I_DIGIN05_HALL	0 to 5 V
LIFE 65	I/O	B_D_ETH1RXP	ETH
LIFE 66	I/O	B_D_ETH1TXP	ETH

Connector SENS-A, Mating Connector AS618-35SA

Pin	I/O	Signal	Level, Power
SENS-A 01	O	O_LSOUT6	VBAT / 2 A
SENS-A 02	O	G_SENSGND10	GND, 2 A fused
SENS-A 03	O	O_LSOUT7	VBAT / 2 A
SENS-A 04	O	O_HSOUT4	VBAT / 8 A
SENS-A 05	O	O_HSOUT4	VBAT / 8 A
SENS-A 06	O	G_SENSGND09	GND, 2 A fused
SENS-A 07	O	G_SENSGND17	GND, 2 A fused
SENS-A 08	O	O_HSOUT3	VBAT / 8 A
SENS-A 09	O	O_HSOUT3	VBAT / 8 A
SENS-A 10	O	O_LSOUT5	VBAT / 2 A
SENS-A 11	O	G_SENSGND08	GND, 2 A fused
SENS-A 12	O	G_SENSGND07	GND, 2 A fused
SENS-A 13	O	G_SENSGND16	GND, 2 A fused
SENS-A 14	O	G_SENSGND18	GND, 2 A fused
SENS-A 15	O	G_SENSGND19	GND, 2 A fused
SENS-A 16	O	O_LSOUT8	VBAT / 2 A
SENS-A 17	O	O_VSENS19_12V	12 V, 250 mA
SENS-A 18	O	O_VSENS20_12V	12 V, 250 mA
SENS-A 19	O	O_VSENS10_12/5V	5 V / 12 V, 250 mA
SENS-A 20	G	GND	GND
SENS-A 21	O	G_SENSGND20	GND, 2 A fused
SENS-A 22	G	G_ANASCR	GND, 2 A fused
SENS-A 23	I	I_THERM1_N	0 to 5 V
SENS-A 24	I	I_THERM1_P	0 to 5 V
SENS-A 25	O	O_VSENS08_12/5V	5 V / 12 V, 250 mA
SENS-A 26	O	O_VSENS16_12V	12 V, 250 mA
SENS-A 27	O	O_VSENS09_12/5V	5 V / 12 V, 250 mA
SENS-A 28	O	G_SENSGND06	GND, 2 A fused
SENS-A 29	I	I_THERM2_P	0 to 5 V
SENS-A 30	O	O_DIGOUT4	5 V / 25 mA
SENS-A 31	O	O_DIGOUT3	5 V / 25 mA
SENS-A 32	O	O_DIGOUT2	5 V / 25 mA
SENS-A 33	O	O_DIGOUT1	5 V / 25 mA
SENS-A 34	O	O_VSENS18_12V	12 V, 250 mA
SENS-A 35	O	O_VSENS07_12/5V	5 V / 12 V, 250 mA
SENS-A 36	O	O_VSENS06_12/5V	5 V / 12 V, 250 mA
SENS-A 37	O	O_VSENS17_12V	12 V, 250 mA
SENS-A 38	I	I_THERM2_N	0 to 5 V
SENS-A 39	I	I_ANA08_5V	0 to 5 V
SENS-A 40	I	I_ANA09_5V	0 to 5 V
SENS-A 41	I	I_ANA10_5V	0 to 5 V
SENS-A 42	I	I_ANA07_5V	0 to 5 V
SENS-A 43	I	I_LVDT4_SEC2N	-5 to 5 V
SENS-A 44	I	I_LVDT4_SEC_M	-5 to 5 V
SENS-A 45	O	O_LVDT4_PRI2	-5 to 5 V
SENS-A 46	G	G_SCR_LVDT4	GND, 2 A fused
SENS-A 47	I	I_ANA16_5V	0 to 5 V
SENS-A 48	I	I_ANA20_5V	0 to 5 V

SENS-A 49	I	I_ANA17_5V	0 to 5 V
SENS-A 50	I	I_ANA24_5V	0 to 5 V
SENS-A 51	I	I_LVDT4_SEC1P	-5 to 5 V
SENS-A 52	O	O_LVDT4_PRI1	-5 to 5 V
SENS-A 53	I	I_LVDT3_SEC_M	-5 to 5 V
SENS-A 54	G	G_SCR_LVDT3	GND, 2 A fused
SENS-A 55	I	I_ANA18_5V	0 to 5 V
SENS-A 56	I	I_ANA19_5V	0 to 5 V
SENS-A 57	I	I_ANA23_5V	0 to 5 V
SENS-A 58	I	I_LVDT3_SEC1P	-5 to 5 V
SENS-A 59	I	I_LVDT3_SEC2N	-5 to 5 V
SENS-A 60	O	O_LVDT3_PRI2	-5 to 5 V
SENS-A 61	I	I_ANA06_5V	0 to 5 V
SENS-A 62	I	I_THERM3_N	0 to 5 V
SENS-A 63	I	I_THERM3_P	0 to 5 V
SENS-A 64	O	O_LVDT3_PRI1	-5 to 5 V
SENS-A 65	I	I_THERM4_N	0 to 5 V
SENS-A 66	I	I_THERM4_P	0 to 5 V

Connector SENS-B, Mating Connector AS618-35SB

Pin	I/O	Signal	Level, Power
SENS-B 01	O	O_VSENS04_12/5V	5 V / 12 V, 250 mA
SENS-B 02	O	O_VSENS05_12/5V	5 V / 12 V, 250 mA
SENS-B 03	I	I_LVDT2_SEC1P	-5 to 5 V
SENS-B 04	O	O_VSENS02_12/5V	5 V / 12 V, 250 mA
SENS-B 05	O	O_VSENS03_12/5V	5 V / 12 V, 250 mA
SENS-B 06	O	O_VSENS15_12V	12 V, 250 mA
SENS-B 07	O	O_VSENS14_12V	12 V, 250 mA
SENS-B 08	I	I_LVDT2_SEC_M	-5 to 5 V
SENS-B 09	O	O_LVDT2_PRI1	-5 to 5 V
SENS-B 10	O	O_VSENS01_12/5V	5 V / 12 V, 250 mA
SENS-B 11	O	O_VSENS12_12V	12 V, 250 mA
SENS-B 12	O	O_VSENS13_12V	12 V, 250 mA
SENS-B 13	O	G_SENSGND02	GND, 2 A fused
SENS-B 14	I	I_LVDT2_SEC2N	-5 to 5 V
SENS-B 15	O	O_LVDT2_PRI2	-5 to 5 V
SENS-B 16	G	G_SCR_LVDT1	GND, 2 A fused
SENS-B 17	O	O_LSOUT2	VBAT / 2 A
SENS-B 18	O	O_VSENS11_12V	12 V, 250 mA
SENS-B 19	O	G_SENSGND04	GND, 2 A fused
SENS-B 20	O	G_SENSGND03	GND, 2 A fused
SENS-B 21	O	G_SENSGND01	GND, 2 A fused
SENS-B 22	O	O_LVDT1_PRI1	-5 to 5 V
SENS-B 23	O	O_LVDT1_PRI2	-5 to 5 V
SENS-B 24	I	I_LVDT1_SEC2N	-5 to 5 V
SENS-B 25	O	O_HSOUT1	VBAT / 8 A
SENS-B 26	O	O_HSOUT1	VBAT / 8 A
SENS-B 27	O	G_SENSGND11	GND, 2 A fused
SENS-B 28	O	G_SENSGND05	GND, 2 A fused
SENS-B 29	V	V_UBAT	VBAT
SENS-B 30	G	GND	GND
SENS-B 31	G	G_SCR_LVDT2	GND, 2 A fused
SENS-B 32	I	I_LVDT1_SEC_M	-5 to 5 V
SENS-B 33	I	I_LVDT1_SEC1P	-5 to 5 V
SENS-B 34	O	O_LSOUT1	VBAT / 2 A
SENS-B 35	O	G_SENSGND12	GND, 2 A fused
SENS-B 36	V	V_UBAT	VBAT
SENS-B 37	V	V_UBAT	VBAT
SENS-B 38	G	GND	GND
SENS-B 39	G	GND	GND
SENS-B 40	I	I_ANA13_5V	0 to 5 V
SENS-B 41	I	I_ANA21_5V	0 to 5 V
SENS-B 42	I	I_ANA22_5V	0 to 5 V
SENS-B 43	O	O_LSOUT3	VBAT / 2 A
SENS-B 44	O	G_SENSGND13	GND, 2 A fused
SENS-B 45	V	V_UBAT	VBAT
SENS-B 46	G	GND	GND
SENS-B 47	I	I_ANA05_5V	0 to 5 V
SENS-B 48	I	I_ANA11_5V	0 to 5 V

SENS-B 49	I	I_ANA14_5V	0 to 5 V
SENS-B 50	I	I_ANA15_5V	0 to 5 V
SENS-B 51	O	O_HSOUT2	VBAT / 8 A
SENS-B 52	O	G_SENSGND14	GND, 2 A fused
SENS-B 53	O	G_SENSGND15	GND, 2 A fused
SENS-B 54	I	I_ANA01_5V	0 to 5 V
SENS-B 55	I	I_ANA02_5V	0 to 5 V
SENS-B 56	I	I_ANA_HSL2	0 to 5 V
SENS-B 57	I	I_ANA12_5V	0 to 5 V
SENS-B 58	O	O_HSOUT2	VBAT / 8 A
SENS-B 59	O	O_LSOUT4	VBAT / 2 A
SENS-B 60	I	I_ANA_HSL5	0 to 5 V
SENS-B 61	I	I_ANA_HSL4	0 to 5 V
SENS-B 62	I	I_ANA04_5V	0 to 5 V
SENS-B 63	I	I_ANA_HSL1	0 to 5 V
SENS-B 64	I	I_ANA_HSL6	0 to 5 V
SENS-B 65	I	I_ANA03_5V	0 to 5 V
SENS-B 66	I	I_ANA_HSL3	0 to 5 V

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