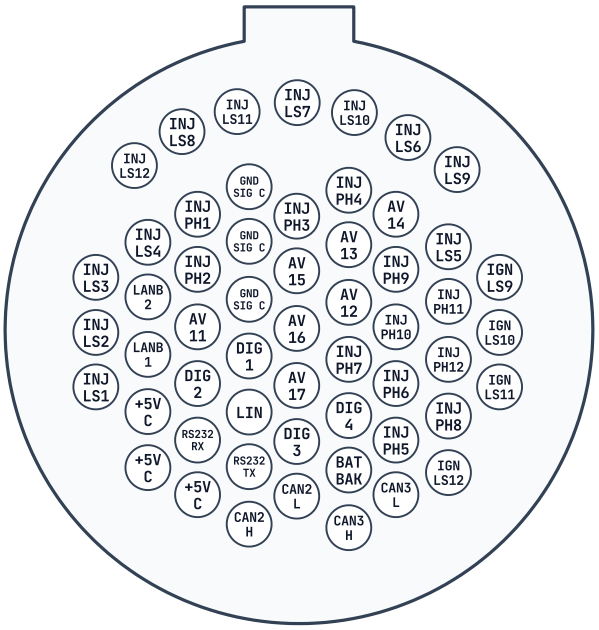
MoTeC M190 pinout

ecurecovery.com/pinouts/motec/m190 · Every pin checked against 3 MoTeC documents · data checked 2026-11-01

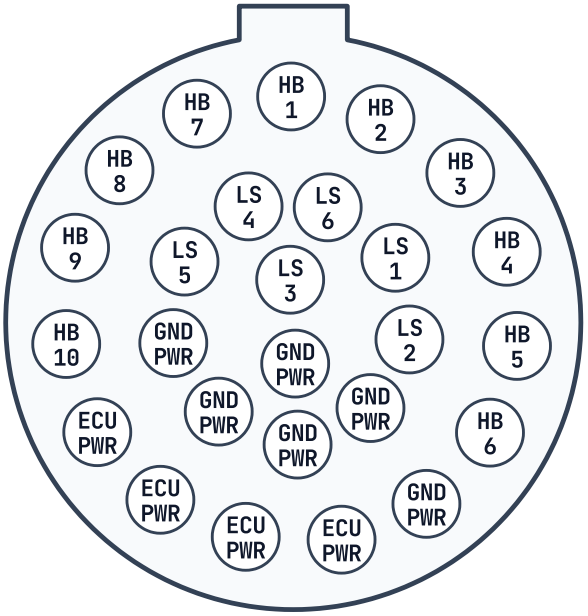
Connector A · 55-pin

CONTACT LAYOUT AS TE CONNECTIVITY (DEUTSCH) DRAWS THIS INSERT; TE DOES NOT SAY FROM WHICH SIDE



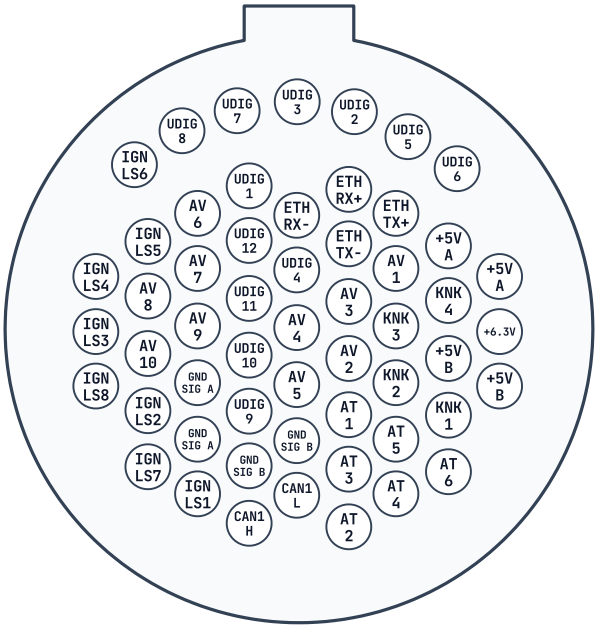
Connector B · 26-pin

CONTACT LAYOUT AS TE CONNECTIVITY (DEUTSCH) DRAWS THIS INSERT; TE DOES NOT SAY FROM WHICH SIDE



Connector C · 55-pin

CONTACT LAYOUT AS TE CONNECTIVITY (DEUTSCH) DRAWS THIS INSERT; TE DOES NOT SAY FROM WHICH SIDE



MoTeC M190 connector A pinout (55-pin)

Mating connector: Autosport 55 way Yellow - (Deutsch) AS6-16-35SA – MoTeC #65031

Pin	Function	MoTeC note
A01	Low Side Injector 3 (INJ_LS3)	
A02	Low Side Injector 2 (INJ_LS2)	
A03	Low Side Injector 1 (INJ_LS1)	
A04	Low Side Injector 12 (INJ_LS12)	
A05	Low Side Injector 4 (INJ_LS4)	
A06	Lambda Narrow Input 2 (LA_NB2)	
A07	Lambda Narrow Input 1 (LA_NB1)	
A08	Sensor 5.0V C (SEN_5V0_C1)	
A09	Sensor 5.0V C (SEN_5V0_C2)	
A10	Low Side Injector 8 (INJ_LS8)	
A11	Peak Hold Injector 1 (INJ_PH1)	
A12	Peak Hold Injector 2 (INJ_PH2)	
A13	Analogue Voltage Input 11 (AV11)	
A14	Digital Input 2 (DIG2)	
A15	RS232 Receive (RS232_RX)	
A16	Sensor 5.0V C (SEN_5V0_C3)	
A17	Low Side Injector 11 (INJ_LS11)	
A18	Sensor 0V C (SEN_0V_C1)	
A19	Sensor 0V C (SEN_0V_C2)	
A20	Sensor 0V C (SEN_0V_C3)	
A21	Digital Input 1 (DIG1)	
A22	LIN Bus (LIN)	
A23	RS232 Transmit (RS232_TX)	
A24	CAN Bus 2 High (CAN2_HI)	
A25	Low Side Injector 7 (INJ_LS7)	
A26	Peak Hold Injector 3 (INJ_PH3)	
A27	Analogue Voltage Input 15 (AV15)	
A28	Analogue Voltage Input 16 (AV16)	
A29	Analogue Voltage Input 17 (AV17)	
A30	Digital Input 3 (DIG3)	
A31	CAN Bus 2 Low (CAN2_LO)	
A32	Low Side Injector 10 (INJ_LS10)	
A33	Peak Hold Injector 4 (INJ_PH4)	
A34	Analogue Voltage Input 13 (AV13)	
A35	Analogue Voltage Input 12 (AV12)	
A36	Peak Hold Injector 7 (INJ_PH7)	
A37	Digital Input 4 (DIG4)	
A38	Battery Backup (BAT_BAK)	
A39	CAN Bus 3 High (CAN3_HI)	
A40	Low Side Injector 6 (INJ_LS6)	
A41	Analogue Voltage Input 14 (AV14)	
A42	Peak Hold Injector 9 (INJ_PH9)	
A43	Peak Hold Injector 10 (INJ_PH10)	
A44	Peak Hold Injector 6 (INJ_PH6)	
A45	Peak Hold Injector 5 (INJ_PH5)	
A46	CAN Bus 3 Low (CAN3_LO)	
A47	Low Side Injector 9 (INJ_LS9)	
A48	Low Side Injector 5 (INJ_LS5)	
A49	Peak Hold Injector 11 (INJ_PH11)	
A50	Peak Hold Injector 12 (INJ_PH12)	
A51	Peak Hold Injector 8 (INJ_PH8)	
A52	Low Side Ignition 12 (IGN_LS12)	

Pin	Function	MoTeC note
A53	Low Side Ignition 9 (IGN_LS9)	
A54	Low Side Ignition 10 (IGN_LS10)	
A55	Low Side Ignition 11 (IGN_LS11)	

MoTeC M190 connector B pinout (26-pin)

Mating connector: Autosport 26 way Red - (Deutsch) AS6-16-26SN – MoTeC #65034

Pin	Function	MoTeC note
B_A	Half Bridge Output 1 (OUT_HB1)	
B_B	Half Bridge Output 2 (OUT_HB2)	
B_C	Half Bridge Output 3 (OUT_HB3)	
B_D	Half Bridge Output 4 (OUT_HB4)	
B_E	Half Bridge Output 5 (OUT_HB5)	
B_F	Half Bridge Output 6 (OUT_HB6)	
B_G	Battery Negative (BAT_NEG1)	
B_H	Battery Positive (BAT_POS1)	
B_J	Battery Positive (BAT_POS2)	
B_K	Battery Positive (BAT_POS3)	
B_L	Battery Positive (BAT_POS4)	
B_M	Half Bridge Output 10 (OUT_HB10)	
B_N	Half Bridge Output 9 (OUT_HB9)	
B_P	Half Bridge Output 8 (OUT_HB8)	
B_R	Half Bridge Output 7 (OUT_HB7)	
B_S	Low Side Output 4 (OUT_LS4)	
B_T	Low Side Output 6 (OUT_LS6)	
B_U	Low Side Output 1 (OUT_LS1)	
B_V	Low Side Output 2 (OUT_LS2)	
B_W	Battery Negative (BAT_NEG2)	
B_X	Battery Negative (BAT_NEG3)	
B_Y	Battery Negative (BAT_NEG4)	
B_Z	Battery Negative (BAT_NEG5)	
B_a	Low Side Output 5 (OUT_LS5)	
B_b	Low Side Output 3 (OUT_LS3)	
B_c	Battery Negative (BAT_NEG6)	

MoTeC M190 connector C pinout (55-pin)

Mating connector: Autosport 55 way Red - (Deutsch) AS6-16-35SN – MoTeC #68090

Pin	Function	MoTeC note
C01	Low Side Ignition 4 (IGN_LS4)	
C02	Low Side Ignition 3 (IGN_LS3)	
C03	Low Side Ignition 8 (IGN_LS8)	
C04	Low Side Ignition 6 (IGN_LS6)	
C05	Low Side Ignition 5 (IGN_LS5)	
C06	Analogue Voltage Input 8 (AV8)	
C07	Analogue Voltage Input 10 (AV10)	
C08	Low Side Ignition 2 (IGN_LS2)	
C09	Low Side Ignition 7 (IGN_LS7)	
C10	Universal Digital Input 8 (UDIG8)	
C11	Analogue Voltage Input 6 (AV6)	
C12	Analogue Voltage Input 7 (AV7)	

Pin	Function	MoTeC note
C13	Analogue Voltage Input 9 (AV9)	
C14	Sensor 0V A (SEN_0V_A1)	
C15	Sensor 0V A (SEN_0V_A2)	
C16	Low Side Ignition 1 (IGN_LS1)	
C17	Universal Digital Input 7 (UDIG7)	
C18	Universal Digital Input 1 (UDIG1)	
C19	Universal Digital Input 12 (UDIG12)	
C20	Universal Digital Input 11 (UDIG11)	
C21	Universal Digital Input 10 (UDIG10)	
C22	Universal Digital Input 9 (UDIG9)	
C23	Sensor 0V B (SEN_0V_B1)	
C24	CAN Bus 1 High (CAN1_HI)	
C25	Universal Digital Input 3 (UDIG3)	
C26	Ethernet Receive- (ETH_RX-)	Ethernet Orange
C27	Universal Digital Input 4 (UDIG4)	
C28	Analogue Voltage Input 4 (AV4)	
C29	Analogue Voltage Input 5 (AV5)	
C30	Sensor 0V B (SEN_0V_B2)	
C31	CAN Bus 1 Low (CAN1_LO)	
C32	Universal Digital Input 2 (UDIG2)	
C33	Ethernet Receive+ (ETH_RX+)	Ethernet
C34	Ethernet Transmit- (ETH_TX-)	Ethernet Green
C35	Analogue Voltage Input 3 (AV3)	
C36	Analogue Voltage Input 2 (AV2)	
C37	Analogue Temperature Input 1 (AT1)	1k Pull up to SEN_5V_A
C38	Analogue Temperature Input 3 (AT3)	1k Pull up to SEN_5V_B
C39	Analogue Temperature Input 2 (AT2)	1k Pull up to SEN_5V_A
C40	Universal Digital Input 5 (UDIG5)	
C41	Ethernet Transmit+ (ETH_TX+)	Ethernet
C42	Analogue Voltage Input 1 (AV1)	
C43	Knock Input 3 (KNOCK3)	
C44	Knock Input 2 (KNOCK2)	
C45	Analogue Temperature Input 5 (AT5)	1k Pull up to SEN_5V_C
C46	Analogue Temperature Input 4 (AT4)	1k Pull up to SEN_5V_B
C47	Universal Digital Input 6 (UDIG6)	
C48	Sensor 5.0V A (SEN_5V0_A1)	
C49	Knock Input 4 (KNOCK4)	
C50	Sensor 5.0V B (SEN_5V0_B1)	
C51	Knock Input 1 (KNOCK1)	
C52	Analogue Temperature Input 6 (AT6)	1k Pull up to SEN_5V_C
C53	Sensor 5.0V A (SEN_5V0_A2)	
C54	Sensor 6.3V (SEN_6V3)	
C55	Sensor 5.0V B (SEN_5V0_B2)	

Where this comes from

MoTeC datasheet

M190 ECU datasheet (MoTeC part 13190)

MoTeC product page (pinout tables)

MoTeC M190 product page, pinout tables (motec.com.au)

MoTeC hardware manual

M1 ECU Hardware (MoTeC tech note, 7 Nov 2013)

Plug drawing: TE Connectivity Deutsch Autosport catalogue, insert arrangements (used for the drawing only)

Third party

TE Connectivity, Deutsch Autosport Interconnection Solutions (2022), page 25: AS contact / insert arrangements