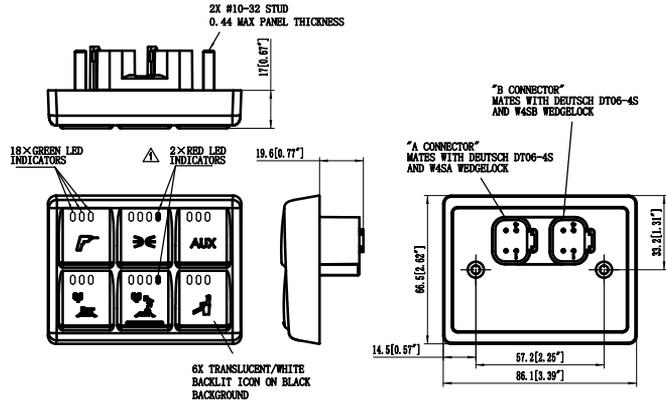
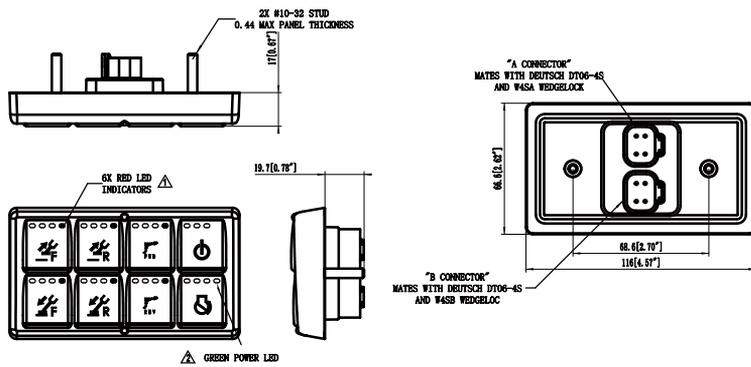


CAN-BUS KEYPAD SWITCH MODULE SCB/SCJ SERIES

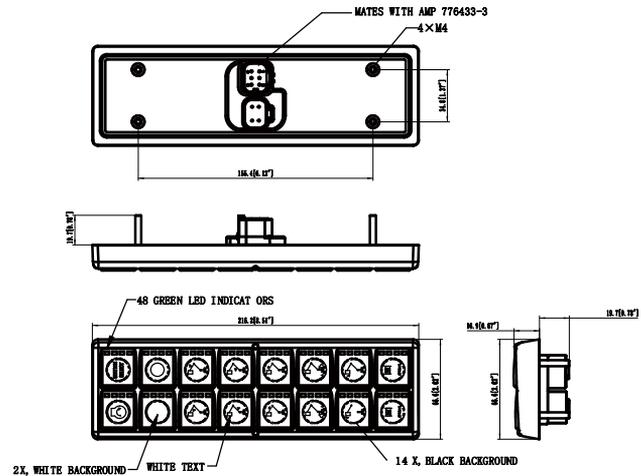
SCB23



SCB24



SCB28



Standard J1939 CANBUS Protocol for Keypads (Custom Firmware Available)

PINOUT	
A	1 POWER
	2 GROUND
	3 CAN HIGH
	4 CAN LOW
B	1 INPUT 1-STB/STG/AIN
	2 INPUT 2-STB/STG
	3 OUTPUT 1-LSO
	4 OUTPUT 2-LSO

1. THE POWER LED REMAINS ON WHILE THE DEVICE IS POWERED.
2. UPON POWER UP THE DEVICE TRANSMITS THE KEYPAD STATUS MESSAGE ON 100 ms INTERVALS AND CONTINUES TO DO SO UNTIL POWERED DOWN.
3. UPON RECEIVING THE PIN CONFIGURATION MESSAGE, CONNECTOR B INPUT PINS ARE CONFIGURED AS SWITCH TO BATTERY INPUTS (STB), SWITCH TO GROUND INPUTS (STG), OR ANALOG INPUTS (AIN). LOW SIDE OUTPUT PINS (LSO) ARE NOT CONFIGURABLE.
4. REFER TO THE PINOUT TABLE FOR VALID CONFIGURATIONS FOR EACH PIN.
5. UPON RECEIVING THE OUTPUT CONFIGURATION MESSAGE, PWM OUTPUT FREQUENCIES ARE SET.
6. THE CONFIGURATION MESSAGES NEED NOT BE RECEIVED MORE THAN ONCE WHILE THE DEVICE REMAINS POWERED ON, BUT PWM FREQUENCIES AND PIN CONFIGURATIONS MAY BE ADJUSTED BY RESENDING.
7. AFTER THE OUTPUT CONFIGURATION MESSAGE HAS BEEN RECEIVED, THE OUTPUT COMMAND MESSAGE ALLOWS CONTROL OF THE DUTY CYCLE OF PWM OUTPUTS.
8. IF THE DEVICE DOES NOT RECEIVE A NEW OUTPUT COMMAND MESSAGE WITHIN 200 ms OF THE PREVIOUS MESSAGE THE DEVICE RESETS THE DUTY CYCLES TO 0%.
9. THE BUTTON BACKLIGHT AND INDICATOR LEDS REMAIN OFF UNTIL THE DEVICE RECEIVES THE LED COMMAND MESSAGE.
10. IF THE DEVICE DOES NOT RECEIVE A NEW LED COMMAND MESSAGE WITHIN 200 ms OF THE PREVIOUS MESSAGE THE DEVICE RETURNS ALL BUTTON AND INDICATOR LEDS TO THE OFF STATE.

29 BIT ID	DESCRIPTION	DLC	TRANS RATE	Byte 0																																																																			
				7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4
0x18FF0000	BUTTON STATUS MESSAGE	8	N/A	status 4	status 3	status 2	status 1	status 0	status 7	status 6	status 5	status 4	status 3	status 2	status 1	status 0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29																									
0x00FF0000	OUTPUT COMMAND MESSAGE	8	N/A	message 4	message 3	message 2	message 1	message 0	message 7	message 6	message 5	message 4	message 3	message 2	message 1	message 0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29																									
0x000FF000	HEARTBEAT	1	N/A	message 4	message 3	message 2	message 1	message 0	message 7	message 6	message 5	message 4	message 3	message 2	message 1	message 0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29																									