

HF3396

HF:

11:

S:

1:

2-C:

Operating voltage:

Operating temperature:

Storage temperature:

Wiring specifications:

(HF11S12C)

HF series

Two axis

Square limiter plate

Drop-in mounting

CANbus J1939

6V to 35VDC

-40° to +85°C (-40°F to 185°F)

-40° to +85°C (-40°F to 185°F)

22AWG, PTFE, 22" ±.125"

Red: Supply power


Black: Ground

Green: CAN High data

White: CAN Low data

Blue: Identifier Select LSB

Orange: Identifier Select MSB

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: .X ± .030 .XX ± .010 .XXX ± .005 .XXXX ± .0005 ANGLES ± 1° FRACTIONS ± 1/32 <input checked="" type="checkbox"/> CRITICAL DIMENSIONS MATERIAL FINISH FORM NO.: EF-300	NAME	DATE	 MANUFACTURERS OF MAN-MACHINE INTERFACE PRODUCTS 970 PARK CENTER DR. VISTA, CA 92081 TEL: (760) 598-2518 FAX: (760) 598-2524 THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF APEM, INC. AND IS TENTED SUBJECT TO THE CONDITIONS THAT THE INFORMATION (A) BE RETAINED IN CONFIDENCE (B) NOT BE REPRODUCED OR COPIED IN WHOLE OR PART (C) NOT BE LEASED TO THIRD PARTY AND (D) NOT BE USED OR INCORPORATED IN ANY PRODUCT EXCEPT UNDER EXPRESSED WRITTEN AGREEMENT WITH APEM, INC.	
	DRAWN	ET		7/16/2015
	CHECKED			
	ENG APPR.			
	COMMENTS:	For Catalog		
TITLE:			HF3396	
SIZE	PROJECT/ACCT. NO.	DWG. NO.	REV	
A	FILE NO.			
SCALE: 1:1	DO NOT SCALE DRAWING	SHEET 1 OF 1		

CAN CONFIGURATION GUIDE

CUSTOMER: _____

Firmware : 520-414 Rev A

PART#: _____ HF3396

										ID Selection					
										CAN ID Select	MSB <small>Orange WIRE</small>	LSB <small>Blue WIRE</small>			
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; background-color: #ffff00;">Check mark as required</div> <div style="border: 1px solid black; padding: 2px; background-color: #ffff00;">Fill in as required</div> </div>															
11 BIT IDENTIFIER (CAN2.0A)	#1	TX									FILL IN 1 TX AND 1 RX IDENTIFIER FOR EACH WIRE COMBINATION AT RIGHT	Address 0	G	G	
		RX									TX is from Joystick to bus RX is from bus to Joystick				
	#2	TX										Address 1		G	
		RX													
	#3	TX										Address 2	G		
		RX													
	#4	TX										Address 3		G	
		RX													
29 BIT IDENTIFIER (CAN2.0B)	#1	TX		0	0	F	D	D	7	0	0	FILL IN 1 TX AND 1 RX IDENTIFIER FOR EACH WIRE COMBINATION AT RIGHT	Address 0	G	G
		RX													
	#2	TX		0	0	F	D	D	7	0	1	TX is from Joystick to bus RX is from bus to Joystick	Address 1		G
		RX													
	#3	TX		0	0	F	D	D	7	0	2		Address2	G	
		RX													
	#4	TX		0	0	F	D	D	7	0	3		Address 3		G
		RX													
8 BYTE TX DATA FRAME			8	7	6	5	4	3	2	1					
8 BYTE RX DATA FRAME			8	7	6	5	4	3	2	1					

<- Byte positions

Identifier Remark <small>(J1939)</small>	5 bit Priority	8 bit PDU Format	8 bit PDU Specific	8 bit Source Address
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Baud Rate:	100K	250K	<input checked="" type="checkbox"/> 500K	1Mbits
Data format:	8bits signed	8bits unsigned	<input checked="" type="checkbox"/> 10bits unsigned	10bits signed
	10bits signed	<input checked="" type="checkbox"/> 12bits unsigned	12bits signed	

										CAN Message options:														
										Y	Option	Bit position	Byte	Description	Y									
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; background-color: #ffff00;">Check mark as required</div> <div style="border: 1px solid black; padding: 2px; background-color: #ffff00;">Fill in as required</div> </div>																								
Center														All axis centered	<input checked="" type="checkbox"/>	Error X			Error on X Axis 00: 01: 10: 11:					
Center X	1,2	1												X axis centered	<input checked="" type="checkbox"/>	Error Y			Error on Y Axis 00: 01: 10: 11:					
Center Y	1,2	3												Y axis centered	<input checked="" type="checkbox"/>	Error Z			Error on Z Axis 00: 01: 10: 11:					
Center Z														Z axis centered	<input checked="" type="checkbox"/>	Error SW			Invalid Switch combination					
X Left	3,4	1												X axis Left	<input checked="" type="checkbox"/>	Z CW			Z axis Counter Clockwise	<input checked="" type="checkbox"/>				
X Right	5,6	1												X axis Right	<input checked="" type="checkbox"/>	Z CCW			Z axis Counter Counter Clockwise	<input checked="" type="checkbox"/>				
Y Up	5,6	3												Y axis Up (North)	<input checked="" type="checkbox"/>	Y Down	3,4	3	Y axis Down (South)	<input checked="" type="checkbox"/>				

11: on the status bits indicate an error on the axis. L in the receive frame stands for LEDs