

Joral J1939 3-Axis Incline Sensor Status Message 65465

Date : 08 Nov 2011

MESSAGE PARAMETERS	
This message is transmitted by sensor at Rep Rate	
PGN: 65465 (FFB9 hex)	
Transmission Repetition Rate	50ms
Data Length	8 bytes
Data Page	0
PDU Format	255 (FF hex)
PDU Specific	185 (B9 hex)
Priority	4
Source Address	220 (DBC hex)
Communication Bit Rate	250 K bits/sec

Source Address Selection		
Resistor Value (ohms)	Address	PGN
No Resistor Connected	220	65465
590 ohms (Id-tag 1)	221	65465
976 ohms (Id-tag 2)	222	65465
1500 ohms (Id-tag 3)	223	65465
2260 ohms (Id-tag 4)	224	65465
3400 ohms (Id-tag 5)	225	65465
5360 ohms (Id-tag 6)	226	65465
9530 ohms (Id-tag 7)	227	65465

Connections / Wiring			
Signal	M12 Pin#	DT04-4P	DT04-6P
V+	1	3 (RED)	3 (RED)
Common	3	4 (BLACK)	4 (BLACK)
CANH	2	1 (YELLOW)	1 (YELLOW)
CANL	4	2 (GREEN)	2 (GREEN)
SA Select	5		5 (WHITE)
Common			6 (BLACK)

PART NUMBERS	
5 Pin M12	SINC-1939-5M12-03-0
DT04-4P	SINC-1939-DT04-03-0
DT04-6P	SINC-1939-DT06-03-0
Flying Leads	SINC-1939-5C72-03-0

8 Byte / 64 Bit Data Field Bit Positions			
Byte	Bit	Bit Function	Field Description
B y t e 1	1	X Angle bit0 LSB	X ANGLE (10 bits) 0 to 1000, 0.1 deg per bit
	2	X Angle bit1	
	3	X Angle bit2	
	4	X Angle bit3	
	5	X Angle bit4	
	6	X Angle bit5	
	7	X Angle bit6	
	8	X Angle bit7	
B y t e 2	9	X Angle bit8	
	10	X Angle bit9 MSB	
	11	X Positive Flag LSB	X ANGLE POS SIGN FLAG (2 bits) 01 = Positive Angle
	12	X Positive Flag MSB	
	13	X Negative Flag LSB	X ANGLE NEGATIVE SIGN FLAG (2 bits) 01 = Negative Angle
	14	X Negative Flag MSB	
	15	Y Angle bit0 LSB	Y ANGLE (10 bits) 0 to 1000, 0.1 deg per bit
	16	Y Angle bit1	
B y t e 3	17	Y Angle bit2	
	18	Y Angle bit3	
	19	Y Angle bit4	
	20	Y Angle bit5	
	21	Y Angle bit6	
	22	Y Angle bit7	
	23	Y Angle bit8	
	24	Y Angle bit9 MSB	
B y t e 4	25	Y Positive Flag LSB	Y ANGLE POS SIGN FLAG (2 bits) 01 = Positive Angle
	26	Y Positive Flag MSB	
	27	Y Negative Flag LSB	Y ANGLE NEGATIVE SIGN FLAG (2 bits) 01 = Negative Angle
	28	Y Negative Flag MSB	
	29	Z Angle bit0 LSB	Z ANGLE (10 bits) 0 to 1000, 0.1 deg per bit
	30	Z Angle bit1	
	31	Z Angle bit2	
	32	Z Angle bit3	
B y t e 5	33	Z Angle bit4	
	34	Z Angle bit5	
	35	Z Angle bit6	
	36	Z Angle bit7	
	37	Z Angle bit8	
	38	Z Angle bit9 MSB	
	39	Z Positive Flag LSB	Z ANGLE POS SIGN FLAG (2 bits) 01 = Positive Angle
	40	Z Positive Flag MSB	
B y t e 6	41	Z Negative Flag LSB	Z ANGLE NEGATIVE SIGN FLAG (2 bits) 01 = Negative Angle
	42	Z Negative Flag MSB	
	43	unused	
	44	unused	
	45	unused	
	46	unused	
	47	unused	
	48	unused	
B y t e 7	49	unused	
	50	unused	
	51	unused	
	52	unused	
	53	unused	
	54	unused	
	55	unused	
	56	unused	
B y t e 8	57	Sensitivity bit0 LSB	SENSITIVITY Setting (3 bits) Field contains the value of the current setting 0 = most sensitive, 7 = most sluggish (default=4)
	58	Sensitivity bit1	
	59	Sensitivity bit2 MSB	
	60	LED Weight bit0 LSB	LED WEIGHT Setting (3 bits) Field contains the value of the current setting Degrees per LED Indicator, 1 to 7 (default=1)
	61	LED Weight bit1	
	62	LED Weight bit2 MSB	
	63	unused	
	64	unused	

Joral J1939 3-Axis Incline Sensor SETTING Message 65281

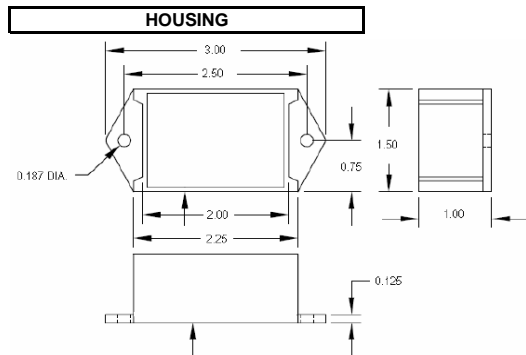
Date : 08 Nov 2011

MESSAGE PARAMETERS	
This message is transmitted by the controller	
PGN: 65281 (FF01 hex)	
Transmission Repetition Rate	n/a
Data Length	n/a
Data Page	0
PDU Format	255 (FF hex)
PDU Specific	1 (01 hex)
Priority	7
Source Address	249 (F9 hex)
Communication Bit Rate	250 K bits/sec

NOTE: SOURCE ADDRESS AND PRIORITY CHANGED 08 NOV 2011

Source Address Selection		
Resistor Value (ohms)	Address	PGN
No Resistor Connected	220	65281
590 ohms (Id-tag 1)	221	65282
976 ohms (Id-tag 2)	222	65283
1500 ohms (Id-tag 3)	223	65284
2260 ohms (Id-tag 4)	224	65285
3400 ohms (Id-tag 5)	225	65286
5360 ohms (Id-tag 6)	226	65287
9530 ohms (Id-tag 7)	227	65288

SPECIFICATIONS
Power 6 to 30 VDC (90 milliamps)
Weight 3 oz2 oz
Mounting Tabs (0.187 diameter holes)
Resolution 0.1 degrees
Absolute Accuracy (at 25 C) ± 0.3 degrees
Temperature Drift ± 0.3 degrees over range
Operating Temperature -40 C to +85



8 Byte / 64 Bit Data Field Bit Positions					
Byte	Bit	Bit Function	Field Description		
B y t e 1	1	SENS Setting bit0 LSB	SENSITIVITY Setting (3 bits) 0 = most sensitive, 7 = most sluggish (default=4)		
	2	SENS Setting bit1			
	3	SENS Setting bit2 MSB			
	B y t e 2	4	reserved	LED WEIGHT Setting (3 bits) Degrees per LED Indicator, 1 to 7 (default=1)	
		5	reserved		
		6	Direction Setting LSB		
		B y t e 3	7	Direction Setting LSB	
			8	Direction Setting MSB	
9			reserved		
10			reserved		
11			unused		
12	unused				
13	unused				
14	unused				
B y t e 4	15	unused			
	16	unused			
	17	unused			
	18	unused			
	19	unused			
	20	unused			
	21	unused			
	22	unused			
B y t e 5	23	unused			
	24	unused			
	25	unused			
	26	unused			
	27	unused			
	28	unused			
	29	unused			
	30	unused			
B y t e 6	31	unused			
	32	unused			
	33	unused			
	34	unused			
	35	unused			
	36	unused			
	37	unused			
	38	unused			
B y t e 7	39	unused			
	40	unused			
	41	unused			
	42	unused			
	43	unused			
	44	unused			
	45	unused			
	46	unused			
B y t e 8	47	unused			
	48	unused			
	49	unused			
	50	unused			
	51	unused			
	52	unused			
	53	unused			
	54	unused			
55	unused				
B y t e 8	56	unused			
	57	unused			
	58	unused			
	59	unused			
	60	unused			
	61	unused			
	62	unused			
	63	unused			
64	unused				

NOTE: Set reserved and unused bits to all 0's or all 1's