

DSI3 Protocol Decoding -Seskion GmbH-

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DSI3 Protocol Decoding

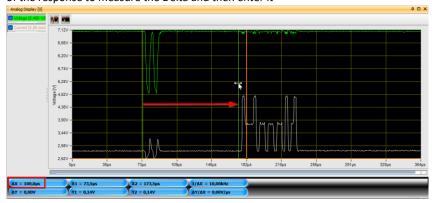
Adjustments for all Modes:

Adjustments in System Configuration:

- 1. CurrentThresholdHigh: CurrentHigh from the data sheet and half of it.
- 2. CurrentThresholdLow: CurrentLow from the data sheet and half of it.
- **3. ManchesterDatarate** setting. Information from the sensor data sheet (usual values: 125, 189, 250, 333).
- 4. MLSCDatarateCrm: From the sensor data sheet.
- 5. MLSCDataratePDCM: From the sensor data sheet.
- **6. SupplyVoltageTriggerLevel**: Not in the data sheet, value must be at least 1V below *SupplyVoltageLow*.
- **7. VoltageThreshold**: Probably not in the data sheet, must be in the middle of *SupplyVoltageHigh* and *SupplyVoltageLow*

,	System Configuration					
	ActionStart	5				
	CrcPolynom	47				
	CurrentThresholdHigh	24				
	CurrentThresholdLow	12				
	ldleVoltageThreshold	6,5				
	ManchesterDatarate	125				
	ManchesterStartDelay	4				
	MLSCDatarateCrm	197				
	MLSCDatarateEncoderDevia	0				
	MLSCDataratePdcm	335				
	Mode	Intern				
	Recovery	0				
	SensorldleCurrent	6				
	SensorSendCurrent0	12				
	SensorSendCurrent1	12				
	StreamUpdateMode	sync				
	SupplyVoltageTriggerLevel	4				
	VoltageThreshold	6				

8. SlotStart: Measurable in the Analog Display -> Set cursor X1 at the start of the sync pulse and X2 shortly before the start of the response to measure the Delta and then enter it



9. SlotEnd: Measurable in the Analog Display -> Set cursor X2 to the end of the response in order to measure the delta and then enter it.



5.04 - E 4.00 - E 4.0	8 4 82V - 9 4 32V - 9 4 4 20V - 9 4 4 20V - 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3,44∨ -		1	+				
9.20V - S	5 20 V - S 6 4 82 V -	3,90V -			la-sa,	MMM			
5 20V -	5.20v -	9 4,36V -				1 1	T.		
		5	l l						

10. PDCM: Insert data from the data sheet here:

~	System Configuration - PDCM							
	BusPeriodPdcm	500						
	DataBits	10						
	KacBits	2						
	PDCMFrameLength	28						
	SidBits	4						
	StatusBits	4						



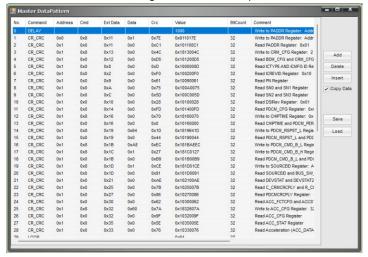
DSI3 Protocol Decoding

Further Adjustments only for ECU Mode

Adjustments in Master Data Editor:



Create the Init Sequence from the data sheet. And generate the PDCM pulse:

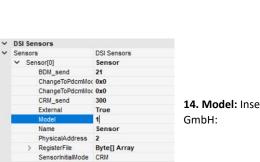


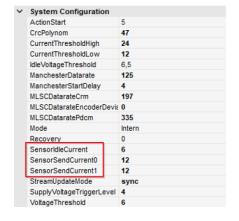
Further Adjustments only for Sensor Mode

Adjustments in System Configuration:

Slots

- 11. SensorIdleCurrent: From the sensor data sheet.
- 12. SensorSendCurrent0: From the sensor data sheet.
- 13. SensorSendCurrent1: From the sensor data sheet.





14. Model: Insert the Sensor Model Number that you received from the Seskion GmbH: