Messages												Signals												Value range								Transmitter - Receiver						Signal comment
																								Physical values						Logical values								
Message	Identifier [hex]	Identifier [dec]	Protocol	Message length	Cycle time normal [ms	Cycle time fast [ms	Inhibit time [ms]	StartDelay [ms]	Message type	GenMsgSendType	GenMsgNrOfRepetitio	Signal	StartByte	StartBit	Signal length [bits]	Signal transmission type	Repetitions active	MUX signal	MUX Group	InitValue raw [dec]	ErrorValue raw [dec]	Sign	Worst case behavior	Worst Case Aufstartla	Min raw value [dec]	Max raw value [dec]	phy values [dec]	Unit	Offset	Scaling	Raw value [dec]	Description	Airbag	eCS	RGS_HL	RGS_HR	RGS_VL	RGS_VR	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	Airbag_01_CRC	1	0	8	Cyclic							valid value		0	255	0 .. 255		0	1			S						or MLB: Calculation see specification "Communication protection for lexRay and CAN"". rom MQB and MLBevo: For calculation, see "End-to-end communication protection" pecification". or end values, see accompanying document "S-PDU identification equences Lennungsfolge: 0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40, 0x40,0x40,0x40,0x40
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	Airbag_01_BZ	2	0	4	Cyclic							valid value		0	15	0 .. 15		0	1			S						
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_RGS_Anst	2	4	4	OnChange				8			valid value								4 5 6 7 8	ctive_level_1 ctive_level_2 ctive_level_3 ctive_level_4 eactivated	S						reCrash control of reversible belt tensioners (activation and force evel) 0xx = disabled
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Front_Crash	3	0	1	OnChangeWithRepetition				0			valid value								0 1	no_front_crash front_crash	S						it is set when the seat belt tensioner, US and RdW thresholds re exceeded.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Heck_Crash	3	1	1	OnChangeWithRepetition				0			valid value								0 1	no_rear_crash rear_crash	S						Will be implemented for all new projects starting up: AB8.4, udi8/VW8
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_SF_Crash	3	2	1	OnChangeWithRepetition				0			valid value								0 1	no_sides_crash_driver ides_crash_driver	S						Currently only used in conjunction with crash intensity >= 100b (fuel ump shutdown).
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_SB_Crash	3	3	1	OnChangeWithRepetition				0			valid value								0 1	no_sides_crash_passenger ides_crash_passenger	S						Currently only used in conjunction with crash intensity >= 100b (fuel ump shutdown).
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Rollover_Crash	3	4	1	OnChangeWithRepetition				0			valid value								0 1	no_rollover ollover	S						Operated in the B6/B7 Cabrio and New Beetle Cabrio.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Crash_Int	3	5	3	OnChangeWithRepetition				0			valid value								0 1 2 3 4 5 7	no_crash Crash_Intensity_1 Crash_Intensity_2_(only_actuator_test_MLB_B8) Crash_Intensity_2_(only_D4_C7_Colorado_NF_ PAG Crash_in_MLB_B8) Crash_Intensity_3_(old_VW/AUDI actuator _MLB_B8) Crash_Intensity_3_(old_PAG) Crash_Intensity_3	S	E					Crash_Intensity_1 = vehicle-dependent reactions in crash Crash_Intensity_2 = vehicle-dependent reactions in crash Crash_Intensity_3 = vehicle-dependent reactions in crash he respective vehicle-dependent reactions in the crash are escribed in a separate Doors module in the airbag SG. he information remains for ~10 s each time the threshold is xceeded Attention: Energy reserve with disconnected battery is only fficient for 150 ms in worst case)
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Lamp	4	0	1	Cyclic				1			valid value								0 1	Fro n On	S						Safety warning lamp in the station wagon is controlled by the airbag G; status of the lamp is output on the CAN bus (also flasher formation).
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_disabled	4	1	1	Cyclic				0			valid value								0 1	Active isabled	S						Airbag or seat belt pretensioner deactivated by adjustment: Update nly after self-test
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_VB_disabled	4	2	1	Cyclic				1			valid value								0 1	Passenger airbag_active Passenger airbag_deactivated	S						Field out as an option, front passenger airbag deactivated by key witch or occupant recognition system
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_System error	4	3	1	Cyclic				0			valid value								0 1	no_error Airbag_System_error	S						System error If necessary, warning lamp is switched on continuously.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Diagnosis	4	4	1	Cyclic				0			valid value	200 ms							0 1	not_in_diagnosis n_diagnosis	S						Airbag in diagnosis
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Posture test	4	5	1	Cyclic				0			valid value								0 1	not_in_actuator_test Airbag_in_actuator_test	S						Information whether airbag is in actuator test to prevent mergency call resolution during actuator test.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Erh_On_VB	4	6	2	Cyclic				0			valid value								0 1 2 3	no_indication passenger airbag_deactivated passenger airbag_activated not_defined	S						The driver should be alerted to a change in status of the front assenger airbag (triggered by passenger occupant detection r key lock switch) by an indicator in the instrument cluster. Audi nly: valid for: AB2 (4-door AU352), B7, C6, D3
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Belt_Warning_VF	5	0	1	Cyclic				0			valid value								0 1	no_warning belt_warning_trip	S						Driver has not fastened seat belt, display in station wagon
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Belt_Warning_VB	5	1	1	Cyclic				0			valid value								0 1	no_warning belt_warning_trip	S						Passenger has not fastened seat belt, display in station wagon
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_display_Fussg	5	2	2	Cyclic				0			valid value								0 1 2	no_FSG_action_detached_h ood_open System error	S						Display for triggered pedestrian protection actuator system
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Texts_AKS	5	4	2	Cyclic				0			valid value	200 ms							0 1 2	no_AKS_trip AKS_trip AKS_system_error	S						Text display for pyrotechnic triggering of the active headrest (AKS)
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_PAO_Light_Anf	5	6	1	Cyclic				1			valid value								0 1	Switch_off_luminaire Switch_on_luminaire	0						Requirement for Passenger Airbag Off light in overhead console on / off), use only with PAG.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_MKB_valid	5	7	1	Cyclic				0			valid value								0 1	Multicollision_braking_not_enabled Multicollision_braking_enabled	0						Multi-collision braking in airbag unlocked
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_MKB_Requirement	6	0	1	OnChangeWithRepetition				0			Init								0 1	Multicollision_braking_not_requested Multicollision_braking_requested	S						Request multi-collision braking
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_supply voltage	6	1	1	Cyclic				0			valid value	200 ms							0 1	plausible mplausible	S						Transmission of the plausibility information Kl.15-load vs. Kl.15-CAN. Operation in case Kl.15-Last "ON" and Kl.15-CAN "OFF" with output Warning/acoustic in combi.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Deactivation_HV	6	2	3	OnChangeWithRepetition				0	7		valid value	200 ms							0 1 2 3 4 5 6 7	none_deactivation Deactivation_1 Deactivation_2 Deactivation_3 Deactivation_4 Deactivation_5 Deactivation_6 error	S						Deactivation of the HV system and HV participants in a crash including hybrid and electric vehicles)
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_EDR_Trigger	6	5	2	OnChange				0			valid value	200 ms							0 1 2 3	No_Event Start_Event NonDeployment_Event Deployment_Event	S						Trigger condition for decentralized recording of accident-relevant data in the Event Data Recorder

Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_occupancy_VF	6	7	2	Cyclic				0	1		valid value								0 1 2 3	ot_available error ot_occupied ccupied	S					ccupancy detection front driver.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_belt_lock_FA_ext	7	1	3	OnChange				6	7		valid value								0 1 2 3 4 5 6 7	ot_built reserved ot_plugged lugged in ermanent_not_plugged ermanent_plugged nit rror	S					he result of the "Seat belt buckle plausibility check" basic unction of the exit concept is displayed in the signal.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_belt_lock_FA_ext_active	7	4	1	Cyclic				0			valid value	200 ms							0 1	nactiv e ctive	S					his signal is used to indicate whether the extended belt iagnostics (result is shown in the signal AB_Belt_lock_FA_ext) is ctivated or deactivated.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_eCS_Error	7	5	1	Cyclic				0			valid value								0 1	o_display display_request	S					ignal to request indication of malfunctions in the system of electric elt interlocking
Airbag_01	0x040	64	FD	8								void	7	6	2																							
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	ASM_Mastertime_02	8	0	8	Cyclic				255			valid value	200 ms	0	254	0 .. 10.16	Unit_Secon	0	0.04	255	nit	S					laster time for all ASM transmitters
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		Airbag_02_CRC	1	0	8	Cyclic							valid value		0	255	0 .. 255		0	1			S					or MLB: Calculation see specification "Communication protection for lexRay and CAN"". rom MQB and MLBevo: For calculation, see "End-to-end communication protection" pecification". or end values, see accompanying document "S-PDU identification equences ennungsfolge: x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44, x44,0x44,0x44,0x44
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		Airbag_02_BZ	2	0	4	Cyclic							valid value		0	15	0 .. 15		0	1			S					
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		LoGeWa_Event_Combined_Warning	2	4	4	OnChange				0			Init								0 1 2 3 4 5	nit ccid ent Loss of traction Breakdown Obstruction of visibility Aquaplaning	0					vent for combination warning
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Request_eCall	3	0	1	Cyclic				0			valid value								0 1	o_requirement requirement	0					rigger for Car2X controller that an eCall event has been etected.
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_side_passenger	3	1	1	OnChange				0			not provided	200 ms							0 1	o_impact mpact_recognized	S					ransmission of the position of a collision, impact zone passenger ide side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Attack_Rollover	3	2	1	OnChange				0			not provided								0 1	o_impact mpact_recognized	0					ransmission of the position of a collision, rollover detected
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_FGS	3	3	1	OnChange				0			not provided	200 ms							0 1	o_impact mpact_recognized	S					ransmission of the position of a collision, pedestrian protection ctuators
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_front_passenger	3	4	1	OnChange				0			not provided	200 ms							0 1	o_impact mpact_recognized	S					ransmission of the position of a collision, impact zone front assenger side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_front_driver	3	5	1	OnChange				0			not provided	200 ms							0 1	o_impact mpact_recognized	S					ransmission of the position of a collision, impact zone front river's side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_rear_passenger	3	6	1	OnChange				0			not provided								0 1	o_impact mpact_recognized	0					ransmission of the position of a collision, rear passenger side npact zone
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_rear_driver	3	7	1	OnChange				0			not provided								0 1	o_impact mpact_recognized	0					ransmission of the position of a collision, impact zone driver's side ear
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_winding_flap_row2_MI	4	0	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available Error_or_init ot_locked Locked	0					tatus wrap-around flap 2nd row center, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_occupancy_VB	4	2	2	Cyclic				0	1		valid value								0 1 2 3	ot_available error ot_occupied ccupied	S					ccupancy detection front passenger. Operated in US ECUs via ladder mat, optional in RdW if SBE_EuroNCAP is decided.
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Shutdown_SIH_BF	4	4	1	OnChange				0			not provided								0 1	Normal operation hutdown_requested	S					he occupant detection on the passenger side requests a hutdown of the seat heater in case of overtemperature. The vertemperature can occur with low-resistance shunts of the seat eating mat as a result of excessive resulting current.
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_side_driver	4	5	1	OnChange				0			not provided	200 ms							0 1	o_impact mpact_recognized	S					ransmission of the position of a collision, impact zone driver's side ide
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		SC_PAO_Sign_Anf	4	6	2	OnChange				0			valid value								0 1 2 3	LED off LED on LED flashing eserved	S					etpoint for LED "PASSENGER AIRBAG" in display Passenger irbag On/Off
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		SC_PAO_ON_Anf	5	0	2	OnChange				0			valid value	200 ms							0 1 2 3	LED off LED on LED flashing eserved	S					etpoint for LED "ON" in Passenger Airbag On/Off display
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		SC_PAO_OFF_Anf	5	2	2	OnChange				0			valid value	200 ms							0 1 2 3	LED off LED on LED flashing eserved	S					etpoint for LED "OFF" in display Passenger Airbag On/Off
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Crash severity	5	4	3	OnChange				0	7		valid value	200 ms							0 1 2 3 4 5 6 7	o_event crash_severity_1 crash_severity_2 crash_severity_3 crash_severity_4 crash_severity_5 crash_severity_2_to_5 error	S					ransmission of the crash severity to the gateway (OBDC)
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Request_USM	5	7	1	Cyclic				0			valid value								0 1	o_requirement requirement	S					rigger for gateway (OBDC) and MIB/MMI that a USM event has een detected.
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_FA	6	0	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available (error or init) ot_plugged plugged	S	E				eat belt buckle status driver side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_BF	6	2	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available (error or init) ot_plugged plugged	S	E				eat belt buckle status passenger side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series2_FA	6	4	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available (error or init) ot_plugged plugged	S	E				elt buckle status 2nd row driver's side, extra equipment

Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series2_MI	6	6	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available (error or init) ot_plugged lugged	S						elt buckle status 2nd row center, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series2_BF	7	0	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available (error or init) ot_plugged lugged	S	E					elt buckle status 2nd row passenger side, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series3_FA	7	2	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available (error or init) ot_plugged lugged	S	E					eat belt buckle status 3rd row driver's side, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series3_MI	7	4	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available (error or init) ot_plugged lugged	S						elt buckle status 3rd row center, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series3_BF	7	6	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available (error or init) ot_plugged lugged	S	E					eat belt buckle status 3rd row passenger side, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Sitzpos_Sens_FA	8	0	2	Cyclic				0	1		valid value								0 1 2 3	ot available rror eat not front eat front	S						utput seating position driver
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Sitzpos_Sens_BF	8	2	2	Cyclic				0	1		valid value								0 1 2 3	ot available rror eat not front eat front	S						utput seat position passenger
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_winding_flap_row2_BF	8	4	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available Error_or_init ot_locked ocked	0						tatus wrap-around 2nd row passenger side, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_winding_flap_row2_FA	8	6	2	OnChange				1			valid value								0 1 2 3	ot_obstructed ot_available Error_or_init ot_locked ocked	0						tatus wrap-around 2nd row driver's side, extra equipment
Airbag_eCS_01	0xAF95511	#######	FD	8								void	1	0	8																								
Airbag_eCS_01	0xAF95511	#######	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_Test_Series3_	2	0	2	Cyclic				0			not provided	200 ms							0 1 2 3	o_action Locked nlocked mplausible	S	E					ignal for actuator test Rear seat in 3rd SR Passenger side
Airbag_eCS_01	0xAF95511	#######	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_Test_Series3_	2	2	2	Cyclic				0			not provided	200 ms							0 1 2 3	o_action Locked nlocked mplausible	S	E					ignal for actuator test rear seat in 3rd SR driver's side
Airbag_eCS_01	0xAF95511	#######	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_test_FA	2	4	2	Cyclic				0			not provided	200 ms							0 1 2 3	o_action Locked nlocked mplausible	S	E					ignal for actuator test driver's seat
Airbag_eCS_01	0xAF95511	#######	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_test_BF	2	6	2	Cyclic				0			not provided	200 ms							0 1 2 3	o_action Locked nlocked mplausible	S	E					ignal for actuator test passenger seat
Airbag_eCS_01	0xAF95511	#######	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_Test_Series2_	3	0	2	Cyclic				0			not provided	200 ms							0 1 2 3	o_action Locked nlocked mplausible	S	E					ignal for actuator test rear seat in 2nd SR driver's side
Airbag_eCS_01	0xAF95511	#######	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_Test_Series2_	3	2	2	Cyclic				0			not provided	200 ms							0 1 2 3	o_action Locked nlocked mplausible	S	E					ignal for actuator test Rear seat in 2nd SR Passenger side
Airbag_eCS_01	0xAF95511	#######	FD	8								void	3	4	4																								
Airbag_eCS_01	0xAF95511	#######	FD	8								void	4	0	40																								
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		ClampControl_01_CRC	1	0	8	Cyclic				0			valid value		0	255	0 .. 255		0	1									or MLB: alculation see "Communication protection for FlexRay and CAN" pecification sheet rom MQB and MLBevo: or calculation, see "End-to-end communication protection" pecification sheet or end values see accompanying document "S-PDU identification equences ennungsfolge: x63,0xb6,0x16,0x88,0xac,0x40,0xcc,0x19,0xf6,0x7b,0x29,0xd2,0 9d,0x27,0xd5,0xdf
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		ClampControl_01_BZ	2	0	4	Cyclic				0			valid value		0	15	0 .. 15		0	1									bit message counter, incremented with each transmit message
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_Warn_P1_ZAT_def	2	4	1	OnChange				0			valid value								0 1	ot_defectiv defective							ombi Prio warning terminal control ignition lock efective, visit service!
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_Warn_P2_ZAT_def	2	5	1	OnChange				0			valid value								0 1	ot_defect efective							ombi Prio warning terminal control ignition lock efective!
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_Deactivation_Trigger	2	6	2	OnChange				0			valid value								0 1 2	O_DEACTIVATION_OCCURRED_0 EACTIVATION_OVER_ZAT_1 EACTIVATION_SIMPLIFIED_VLK_2							utput of the deactivation trigger for functions with goodbye scenario o distinguish between manual and automatic deactivation on ehicle exit.
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_Kl_S	3	0	1	OnChange				0			valid value								0 1	ff _contact_on							erminal S: S-contact (key inserted)
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_KL_15	3	1	1	OnChange				0			valid value								0 1	ff a	S*		E	E	E	E	erminal 15: Infeed (SW-Kl.15)
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_Kl_50_start request	3	2	1	OnChange				0			valid value								0 1	rom KL50_a_start_wish_driver							erminal 50: Driver start request
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_Special_Status	3	3	2	OnChange				0	3		valid value								0 1 2 3	nit Transition_new_request ctive rror							his signals that a special function is active and that terminal 15 as been requested by this function or that a transition of special nctions is taking place.
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_exit_desire_status	3	5	1	OnChange				0			valid value								0 1	O_EXIT_DESIRE_ACTIVE_0 XIT_DESIRE_ACTIVE_1							xit request via which functions with goodbye scenario can be iggered centrally.
ClampControl_01	0x12DD54	#######	FD	8								void	3	6	1																								
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_BulbCheckReq	3	7	1	OnChange				0			valid value								0 1	o_request equest							ignal requests a lamp check (Bulb Check).
ClampControl_01	0x12DD54	#######	FD	8	100		10	0	Application	Cyclic		KST_Kl_X	4	0	1	OnChange				0			valid value								0 1	ff a							utput of terminal 75 for compatibility reasons for COP transfers om MEB.

ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_Parking_Operation	4	1	1	OnChange	0			0 1	no_operation parking_active							equest for renewed lamp check and display of warnings after a iloted parking procedure (trigger: falling edge).
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_Driver notice_1	4	2	1	OnChange	0		valid value	0 1	nactiv e active							ignaling driver note 1 of the terminal control to the combi
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_Driver notice_2	4	3	1	OnChange	0		valid value	0 1	nactiv e active							ignaling driver's note 2 of the terminal control to the combi
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_driver_advice_3	4	4	1	OnChange	0		valid value	0 1	nactiv e active							ignaling driver's note 3 of the terminal control to the combi
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_driver_advice_4	4	5	1	OnChange	0		valid value	0 1	nactiv e active							ignaling driver's note 4 of the terminal control to the combi
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_driver_advice_5	4	6	1	OnChange	0		valid value	0 1	nactiv e active							isplay signal for RemoteStart
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_driver_advice_6	4	7	1	OnChange	0		valid value	0 1	nactiv e active							ignal activates the combined display instruments speed, tank content, coolant temperature) during ctivated RemoteStart mode
ClampControl_01	0x12DD54	#######	FD	8						void	5	0	2													
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_Txt_Panic shutdown	5	2	1	OnChange	0		valid value	0 1	Fro n On							ext: 'Emergency shutdown"
ClampControl_01	0x12DD54	#######	FD	8						void	5	3	5													
ClampControl_01	0x12DD54	#######	FD	8						void	6	0	1													
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_Anf_Klemmenfreigabe_EL	6	1	1	Cyclic	0		valid value	0 1	not_requested equested							erminal control requests terminal release by the ELV.
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_aut_shutdown_endun	6	2	1	OnChange	0		valid value	0 1	Allocation_will_not_be_deactivated Allocation_will_be_deactivated_on_allocation							f the low beam was active when the ignition was switched on, he parking light must remain active after the automatic switch-off f Kl_15 & Kl_S. The signal sends the information that an utomatic switch-off of the Kl_15 and Kl_S takes place.
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_StPtAcvReq	6	3	2	OnChange	0		valid value	0 1 2	NoActivationRequest StoredActivationRequest CurrentActivationRequest							AT-activation-demand
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_StPtDeacReq	6	5	1	OnChange	0		valid value	0 1	NoRequest RequestDeactivatePowertrain							equest deactivation of the drive train by terminal control
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_ZAT_activated	6	6	1	OnChange	0		valid value	0 1	Fro n On							gnition start button (ZAT) actuated
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_ComfortReadyStatus	6	7	1	OnChange	0		valid value	0 1	off ComfortReadyStatus_on							tate of the ComfortReadyStatus via which comfort functions can be ctivated.
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_Special_State_Required	7	0	5	OnChange	0	31	valid value	0 1 2 3 4 5 6 7 8 9 10 11 31	nit RemoteStart RemoteParkAssist ntelligentParkAssist TrainedParking OnlineRemoteUpdate Freeze Protection Terminal15ViaDiagnostics TailgateFusePDC ParkHomePilot TrailerHitchAssist MotorContinueSwitching Error							his identifies the active or currently requested (see ST_Sonderzustand_Status) special function.
ClampControl_01	0x12DD54	#######	FD	8	100	10	0	Application	Cyclic	KST_WFS_Drive_Release_Anford	7	5	2	OnChange	0		valid value	0 1 2	None Unrestricted Restricted							his signals to the immobilizer participants which type of drive elease is required by the requesting special function
ClampControl_01	0x12DD54	#######	FD	8						void	7	7	1													
ClampControl_01	0x12DD54	#######	FD	8						void	8	0	8													
DIA_eCS_Req	0x17FC42	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_eCS_Req_Data	1	0	64	OnChange			valid value			S*	E					iagnostics Request Flashing <SG Name>
DIA_eCS_Req_FD	0x1C40420	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_eCS_Req_FD_Data	1	0	512	OnChange			valid value			S*	E					iagnostics Request Flashing eCS
DIA_eCS_Resp	0x17FE420	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_eCS_Resp_Data	1	0	64	OnChange			valid value			E*	S					iagnostic response flashing <SG name>
DIA_eCS_Resp_FD	0x1C42420	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_eCS_Resp_FD_Data	1	0	512	OnChange			valid value			E*	S					iagnostics Response Flashing eCS
DIA_RGS_HL_Req	0x17FC17	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_RGS_HL_Req_Data	1	0	64	OnChange			valid value			S*		E				iagnosis Request Flashing RGS_HL
DIA_RGS_HL_Req_FD	0x1C40171	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_RGS_HL_Req_FD_Data	1	0	512	OnChange			valid value			S*		E				iagnosis Request FD RGS_HL
DIA_RGS_HL_Resp	0x17FE171	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_RGS_HL_Resp_Data	1	0	64	OnChange			valid value			E*		S				iagnostic response flashing RGS_HL
DIA_RGS_HL_Resp_FD	0x1C42171	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_RGS_HL_Resp_FD_Data	1	0	512	OnChange			valid value			E*		S				iagnostic response FD RGS_HL
DIA_RGS_HR_Req	0x17FC17	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_RGS_HR_Req_Data	1	0	64	OnChange			valid value			S*			E			iagnosis Request Flashing RGS_HR
DIA_RGS_HR_Req_FD	0x1C40171	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_RGS_HR_Req_FD_Data	1	0	512	OnChange			valid value			S*			E			iagnosis Request FD RGS_HR
DIA_RGS_HR_Resp	0x17FE171	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_RGS_HR_Resp_Data	1	0	64	OnChange			valid value			E*			S			iagnostic response flashing RGS_HR
DIA_RGS_HR_Resp_FD	0x1C42171	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_RGS_HR_Resp_FD_Data	1	0	512	OnChange			valid value			E*			S			iagnostic response FD RGS_HR
DIA_RGS_VL_Req	0x17FC16	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_RGS_VL_Req_Data	1	0	64	OnChange			valid value			S*				E		iagnosis Request Flashing RGS_VL
DIA_RGS_VL_Req_FD	0x1C40162	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_RGS_VL_Req_FD_Data	1	0	512	OnChange			valid value			S*				E		iagnosis Request FD RGS_VL
DIA_RGS_VL_Resp	0x17FE162	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_RGS_VL_Resp_Data	1	0	64	OnChange			valid value			E*				S		iagnostic response flashing RGS_VL
DIA_RGS_VL_Resp_FD	0x1C42162	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_RGS_VL_Resp_FD_Data	1	0	512	OnChange			valid value			E*				S		iagnostic response FD RGS_VL
DIA_RGS_VR_Req	0x17FC16	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_RGS_VR_Req_Data	1	0	64	OnChange			valid value			S*					E	iagnosis Request Flashing RGS_VR
DIA_RGS_VR_Req_FD	0x1C40162	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_RGS_VR_Req_FD_Data	1	0	512	OnChange			valid value			S*					E	iagnosis Request FD RGS_VR
DIA_RGS_VR_Resp	0x17FE162	#######	FD	8			0	TP-ISO	NoMsgSendType	DIA_RGS_VR_Resp_Data	1	0	64	OnChange			valid value			E*					S	iagnostic response flashing RGS_VR
DIA_RGS_VR_Resp_FD	0x1C42162	#######	FD	64			0	TP-ISO	NoMsgSendType	DIA_RGS_VR_Resp_FD_Data	1	0	512	OnChange			valid value			E*					S	iagnostic response FD RGS_VR
Diag_eCS_Req_FD	0x1C40520	#######	FD	64			0	TP-ISO	NoMsgSendType	Diag_eCS_Req_FD_Data	1	0	512	OnChange			valid value			S	E					DS diagnosis SO-TP data channel - FID2NA equest function 0x07 Diagnostic access from DK4 master to K1/2 node 0x742
Diag_eCS_Resp_FD	0x1C42520	#######	FD	64			0	TP-ISO	NoMsgSendType	Diag_eCS_Resp_FD_Data	1	0	512	OnChange			valid value			E	S					DS-Diganose SO-TP data channel - FID2NA esponse DK1/2 node 0x742 to function 0x07 Diagnostic access rom DK4 master
Diag_RGS_HL_Req	0x17FC07	#######	FD	8			0	TP-ISO	NoMsgSendType	Diag_RGS_HL_Req_Data	1	0	64	OnChange			valid value			S		E				iagnostic channel between diagnostic master and RGS_HL
Diag_RGS_HL_Resp	0x17FE071	#######	FD	8			0	TP-ISO	NoMsgSendType	Diag_RGS_HL_Resp_Data	1	0	64	OnChange			valid value			E		S				iagnostic channel between diagnostic master and RGS_HL
Diag_RGS_HR_Req	0x17FC07	#######	FD	8			0	TP-ISO	NoMsgSendType	Diag_RGS_HR_Req_Data	1	0	64	OnChange			valid value			S			E			iagnostic channel between diagnostic master and RGS_HR
Diag_RGS_HR_Resp	0x17FE071	#######	FD	8			0	TP-ISO	NoMsgSendType	Diag_RGS_HR_Resp_Data	1	0	64	OnChange			valid value			E			S			iagnostic channel between diagnostic master and RGS_HR
Diag_RGS_VL_Req	0x17FC06	#######	FD	8			0	TP-ISO	NoMsgSendType	Diag_RGS_VL_Req_Data	1	0	64	OnChange			valid value			S				E		iagnostic channel between diagnostic master and RGS_VL
Diag_RGS_VL_Resp	0x17FE062	#######	FD	8			0	TP-ISO	NoMsgSendType	Diag_RGS_VL_Resp_Data	1	0	64	OnChange			valid value			E				S		iagnostic channel between diagnostic master and RGS_VL
Diag_RGS_VR_Req	0x17FC06	#######	FD	8			0	TP-ISO	NoMsgSendType	Diag_RGS_VR_Req_Data	1	0	64	OnChange			valid value			S					E	iagnostic channel between diagnostic master and RGS_VR

Diag_RGS_VR_Resp	0x17FE062	#######	FD	8				0	TP-ISO	NoMsgSendType		Diag_RGS_VR_Resp_Data	1	0	64	OnChange				valid value				E					S	iagnostic channel between diagnostic master and RGS_VR
eCS_01	0xAF95510	#######	FD	8								void	1	0	8															
eCS_01	0xAF95510	#######	FD	8								void	2	0	4															
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Status	2	4	2	Cyclic		0	3	not provided	200 ms	0 1 2 3	nit locked nlocked Error	E	S					he eCS SG sends the status of the webbing locked or unlocked magnet stroke on the webbing locked or unlocked).
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Stoerung	2	6	1	Cyclic		0		not provided	200 ms	0 1	o_disturbance isturbance	E	S					he eCS signals a sporadic error or a communication meout
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_HW_defect	2	7	1	Cyclic		0		not provided	200 ms	0 1	ot_defect Defect	E	S					e eCS signals a HW_defect
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_belt_lock_status_row	3	0	2	Cyclic		1		not provided	200 ms	0 1 2 3	ot_built ot_available_error_o_init ot_plugged lugged	E	S					he eCS SG sends the status of the credit lock 2.SR driver to the irbag SG
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_belt_lock_status_row	3	2	2	Cyclic		1		not provided	200 ms	0 1 2 3	ot_built ot_available_error_o_init ot_plugged lugged	E	S					he eCS SG sends the status of the credit lock 2.SR passenger o the airbag SG
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_SBS_occupancy_row2_F	3	4	2	Cyclic		2		not provided	200 ms	0 1 2 3	ot_available hort_circuit_to_ground ot_occupied ccupied	E	S					he eCS SG sends the status of the seat occupancy 2.SR driver to e airbag SG
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_SBS_occupancy_row2_B	3	6	2	Cyclic		2		not provided	200 ms	0 1 2 3	ot_available hort_circuit_to_ground ot_occupied ccupied	E	S					he eCS SG sends the status of the seat occupancy 2.SR assenger to the airbag SG
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Status_Verr_Row1_FS_1	4	0	2	Cyclic		0		valid value	200 ms	0 1 2 3	nit_or_error ocked unlocked ot_installed	E	S					err_row1=Lock row1
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Status_Verr_Row1_BFS	4	2	2	Cyclic		0		valid value	200 ms	0 1 2 3	nit_or_error ocked unlocked ot_installed	E	S					err_row1=Lock row1
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Status_Verr_Row1_FS_2	4	4	2	Cyclic		0		valid value	200 ms	0 1 2 3	nit_or_error ocked unlocked ot_installed	E	S					err_row1=Lock row1
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Status_Verr_Row1_BFS	4	6	2	Cyclic		0		valid value	200 ms	0 1 2 3	nit_or_error ocked unlocked ot_installed	E	S					err_row1=Lock row1
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Status_Verr_Row2_FS	5	0	2	Cyclic		0		valid value	200 ms	0 1 2 3	nit_or_error ocked unlocked ot_installed	E	S					err_row2=Lock row2
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Status_Verr_Row2_BFS	5	2	2	Cyclic		0		valid value	200 ms	0 1 2 3	nit_or_error ocked unlocked ot_installed	E	S					err_row2=Lock row2
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Error_Row1_FS_1	5	4	3	Cyclic		0		valid value	200 ms	0 1 2 3 4	o_error hort_circuit_to_ground hort_circuit_to_plus pen_circuit ctuator_coil_error	E	S					rror messages actuator
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Error_Row1_BFS_1	5	7	3	Cyclic		0		valid value	200 ms	0 1 2 3 4	o_error hort_circuit_to_ground hort_circuit_to_plus pen_circuit ctuator_coil_error	E	S					rror messages actuator
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Error_Row1_FS_2	6	2	3	Cyclic		0		valid value	200 ms	0 1 2 3 4	o_error hort_circuit_to_ground hort_circuit_to_plus pen_circuit ctuator_coil_error	E	S					rror messages actuator
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Error_Row1_BFS_2	6	5	3	Cyclic		0		valid value	200 ms	0 1 2 3 4	o_error hort_circuit_to_ground hort_circuit_to_plus pen_circuit ctuator_coil_error	E	S					rror messages actuator
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Error_Row2_FS	7	0	3	Cyclic		0		valid value	200 ms	0 1 2 3 4	o_error hort_circuit_to_ground hort_circuit_to_plus pen_circuit ctuator_coil_error	E	S					rror messages actuator
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_Error_Row2_BFS	7	3	3	Cyclic		0		valid value	200 ms	0 1 2 3 4	o_error hort_circuit_to_ground hort_circuit_to_plus pen_circuit ctuator_coil_error	E	S					rror messages actuator
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_SBS_LastState_Row2_F	7	6	2	Cyclic		0		valid value	200 ms	0 1 2 3	nit ccupi ed ot_occupie d error	E	S					ave last occupancy state of the SBR sensor
eCS_01	0xAF95510	#######	FD	8	50			0	Application	Cyclic		eCS_SBS_LastState_Row2_B	8	0	2	Cyclic		0		valid value	200 ms	0 1 2 3	nit ccupi ed ot_occupie d error	E	S					ave last occupancy state of the SBR sensor
eCS_01	0xAF95510	#######	FD	8								void	8	2	6															
GPA_01	0xAF954C	#######	FD	8								void	1	0	8															
GPA_01	0xAF954C	#######	FD	8								void	2	0	4															
GPA_01	0xAF954C	#######	FD	8	500	10	10	0	Application	Cyclic	5	GPA_Parking_position_achieved_HL	2	4	1	OnChangeWithRepetition	5	0		valid value	200 ms	0 1	Park_position_not_reached Park_position_reached	S		E				GS_HL has reached the parking position
GPA_01	0xAF954C	#######	FD	8	500	10	10	0	Application	Cyclic	5	GPA_Parking_position_achieved_HR	2	5	1	OnChangeWithRepetition	5	0		valid value	200 ms	0 1	Park_position_not_reached Park_position_reached	S			E			GS_HR has reached the parking position
GPA_01	0xAF954C	#######	FD	8	500	10	10	0	Application	Cyclic	5	GPA_Parking_position_achieved_VL	2	6	1	OnChangeWithRepetition	5	0		valid value	200 ms	0 1	Park_position_not_reached Park_position_reached	S				E		GS_VL has reached the parking position
GPA_01	0xAF954C	#######	FD	8	500	10	10	0	Application	Cyclic	5	GPA_Parking_position_achieved_VR	2	7	1	OnChangeWithRepetition	5	0		valid value	200 ms	0 1	Park_position_not_reached Park_position_reached	S					E	GS_VR has reached the parking position
GPA_01	0xAF954C	#######	FD	8								void	3	0	48															
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		Airbag_01_CompProtection	1	0	1	Cyclic		0		valid value		0 1	nactiv e active	S						unction restriction due to component protection active

KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		Airbag_01_deactivation stage	1	1	1	Cyclic				0			valid value								0 1	no_restriction Functional restriction	S						Function restriction due to active shutdown stage
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		Airbag_01_Transport_Mode	1	2	1	Cyclic				0			valid value								0 1	no_restriction Functional restriction	S						Functional limitation due to active transport mode and/or transport protection
KN_Airbag_01	0x17F0001	#######	FD	8								void	1	3	1																								
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		Airbag_01_trailing type	1	4	4	Cyclic				2			valid value								0 1 2	Come_on_KL15_ON Come_on_KL15_OFF Come_on_KL15_OFF	S						Shown is the possibility given by the hardware to maintain the communication after terminal 15 = OFF. An Init value is sent.
KN_Airbag_01	0x17F0001	#######	FD	8								void	2	0	24																								
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		KN_Airbag_01_ECUKnockOutT	5	0	6	Cyclic							valid value		0	62	0 .. 62		0	1	63	ECUKnockOut_disabled	S						Output of the ECUKnockOut timer
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		KN_Airbag_01_BusKnockOut	5	6	2	Cyclic				0			valid value								0 1 2 3	Function_not_deleted Veto_active Function_deleted Function_deactivated	S						Output of the BusKnockout status
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		KN_Airbag_01_BusKnockOutTi	6	0	8	Cyclic							valid value		0	254	0 .. 254		0	1	255	BusKnockOut_disabled	S						Output of the BusKnockOut timer
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		NM_Airbag_01_Wakeup	7	0	8	Cyclic				0			valid value								0 1 2 3 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Seat occupancy detection_driver Seat belt buckle detection_driver	0						Contains the wake-up cause; if several wake-up causes are present in parallel, then the smallest value must be transmitted
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		KN_Airbag_01_ECUKnockOut	8	0	2	Cyclic				0			valid value								0 1 2 3	Function_not_deleted Veto_was_active Function_deleted Function_deactivated	S						Output of the ECU knockout status
KN_Airbag_01	0x17F0001	#######	FD	8								void	8	2	2																								
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		KN_Airbag_01_DiagPath	8	4	1	Cyclic							valid value								0 1	active inactiv e	S						Identification of the diagnostic capability of the bus interface of an ECU (node) Scope LAH 80127 To be set explicitly per connected BusInterface when using the signal: MQBw_Baseline on F-CANFD 1 = 0 (active)
KN_Airbag_01	0x17F0001	#######	FD	8								void	8	5	2																								
KN_Airbag_01	0x17F0001	#######	FD	8	500			0	Application	Cyclic		Airbag_01_KD_error	8	7	1	Cyclic				0			valid value								0 1	No_KD_error KD_error	S						If the bit is set, at least one customer service error is entered
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		RGS_HL_CompProtection	1	0	1	Cyclic				0			not provided								0 1	inactiv e active			0				Function restriction due to component protection active
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		RGS_HL_shutdown stage	1	1	1	Cyclic				0			not provided								0 1	no_restriction Functional restriction			0				Function restriction due to active shutdown stage
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		RGS_HL_Transport_Mode	1	2	1	Cyclic				0			not provided								0 1	no_restriction Functional restriction			0				Functional limitation due to active transport mode and/or transport protection
KN_RGS_HL	0x17F000F	#######	FD	16								void	1	3	1																								
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		RGS_HL_trailing type	1	4	4	Cyclic				2			not provided								0 1 2	Come_on_KL15_ON Come_on_KL15_OFF Come_on_KL15_OFF			0				Shown is the possibility given by the hardware to maintain the communication after terminal 15 = OFF. An Init value is sent.
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		RGS_HL_SNI_10	2	0	10	Cyclic				249			valid value								249	RGS_HL_SNI			0				Source Node-Identifier (SNI) uniquely identifies the sender of the NM message (node address) in the vehicle.
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		KN_RGS_HL_ECUKnockOut	3	2	2	Cyclic				0			valid value	200 ms							0 1 2 3	Function_not_deleted Veto_was_active Function_deleted Function_deactivated			S				Output of the ECU knockout status
KN_RGS_HL	0x17F000F	#######	FD	16								void	3	4	1																								
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		RGS_HL_Local active	3	5	1	Cyclic				0			valid value								0 1	was_not_local_active was_local_active			0				Indicates whether the SG was still active after terminal15 OFF and after the corresponding MAX active time.
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		RGS_HL_Subsystem active	3	6	1	Cyclic				0			valid value								0 1	Subsystem_was_not_locally_active was_locally_active			0				Indicates whether a subsystem of the SG was still active after terminal15 OFF and after the corresponding MAX active time.
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		RGS_HL_KD_error	3	7	1	Cyclic				0			not provided								0 1	no_KD_error KD_error			0				
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		KN_RGS_HL_ECUKnockOutTim	4	0	6	Cyclic				0			valid value	200 ms	0	62	0 .. 62		0	1	63	ECUKnockOut_disabled			S				Output of the ECUKnockOut timer
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		KN_RGS_HL_BusKnockOut	4	6	2	Cyclic				0			valid value	200 ms							0 1 2 3	Function_not_deleted Veto_active Function_deleted Function_deactivated			S				Output of the BusKnockout status
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		KN_RGS_HL_BusKnockOutTim	5	0	8	Cyclic				0			valid value	200 ms	0	254	0 .. 254		0	1	255	BusKnockOut_disabled			S				Output of the BusKnockOut timer
KN_RGS_HL	0x17F000F	#######	FD	16	500			0	Application	Cyclic		NM_RGS_HL_FCIB	6	0	56	Cyclic				0			valid value								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_PreHeater 37_HighVoltage_WirelessChargingStation			0				FCIB = Function Cluster Initialization Bits
KN_RGS_HL	0x17F000F	#######	FD	16								void	13	0	32																								
KN_RGS_HR	0x17F000F	#######	FD	16	500			0	Application	Cyclic		RGS_HR_CompProtection	1	0	1	Cyclic				0			not provided								0 1	inactiv e active				0			Function restriction due to component protection active

KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	RGS_HR_shutdown stage	1	1	1	Cyclic	0	not provided							0 1	no_restriction Functional restriction	0		Function restriction due to active shutdown stage
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	RGS_HR_Transport_Mode	1	2	1	Cyclic	0	not provided							0 1	no_restriction Functional restriction	0		Functional limitation due to active transport mode and/or transport protection
KN_RGS_HR	0x17F000F	#######	FD	16						void	1	3	1														
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	RGS_HR_trailing type	1	4	4	Cyclic	2	not provided							0 1 2	Come_on_KL15_ON Come_on_KL15_OFF Come_on_KL15_OFF	0		Shown is the possibility given by the hardware to maintain the communication after terminal 15 = OFF. An Init value is sent.
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	RGS_HR_SNI_10	2	0	10	Cyclic	250	valid value							250	RGS_HR_SNI	0		Source Node-Identifier (SNI) uniquely identifies the sender of the NM message (node address) in the vehicle.
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	KN_RGS_HR_ECUKnockOut	3	2	2	Cyclic	0	valid value	200 ms						0 1 2 3	Function_not_deleted Veto_was_active Function_deleted Function_deactivated	S		Output of the ECU knockout status
KN_RGS_HR	0x17F000F	#######	FD	16						void	3	4	1														
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	RGS_HR_Local active	3	5	1	Cyclic	0	valid value							0 1	was_not_local_active was_local_active	0		Indicates whether the SG was still active after terminal15 OFF and after the corresponding MAX active time.
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	RGS_HR_Subsystem active	3	6	1	Cyclic	0	valid value							0 1	Subsystem_was_not_locally_active was_locally_active	0		Indicates whether a subsystem of the SG was still active after terminal15 OFF and after the corresponding MAX active time.
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	RGS_HR_KD_error	3	7	1	Cyclic	0	not provided							0 1	no_KD_error KD_error	0		
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	KN_RGS_HR_ECUKnockOutTi	4	0	6	Cyclic	0	valid value	200 ms	0	62	0 .. 62	0	1	63	ECUKnockOut_disabled	S		Output of the ECUKnockOut timer
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	KN_RGS_HR_BusKnockOut	4	6	2	Cyclic	0	valid value	200 ms						0 1 2 3	Function_not_deleted Veto_active Function_deleted Function_deactivated	S		Output of the BusKnockout status
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	KN_RGS_HR_BusKnockOutTim	5	0	8	Cyclic	0	valid value	200 ms	0	254	0 .. 254	0	1	255	BusKnockOut_disabled	S		Output of the BusKnockOut timer
KN_RGS_HR	0x17F000F	#######	FD	16	500		0	Application	Cyclic	NM_RGS_HR_FCIB	6	0	56	Cyclic	0	valid value							0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_PreHeater 37_HighVoltage_WirelessChargingStation	0		FCIB = Function Cluster Initialization Bits
KN_RGS_HR	0x17F000F	#######	FD	16						void	13	0	32														
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	RGS_VL_CompProtection	1	0	1	Cyclic	0	not provided							0 1	inactiv e active		0	Function restriction due to component protection active
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	RGS_VL_shutdown stage	1	1	1	Cyclic	0	not provided							0 1	no_restriction Functional restriction		0	Function restriction due to active shutdown stage
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	RGS_VL_Transport_Mode	1	2	1	Cyclic	0	not provided							0 1	no_restriction Functional restriction		0	Functional limitation due to active transport mode and/or transport protection
KN_RGS_VL	0x17F0005	#######	FD	16						void	1	3	1														
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	RGS_VL_trailing edge type	1	4	4	Cyclic	2	not provided							0 1 2	Come_on_KL15_ON Come_on_KL15_OFF Come_on_KL15_OFF		0	Shown is the possibility given by the hardware to maintain the communication after terminal 15 = OFF. An Init value is sent.
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	RGS_VL_SNI_10	2	0	10	Cyclic	94	valid value							94	RGS_VL_SNI		0	Source Node-Identifier (SNI) uniquely identifies the sender of the NM message (node address) in the vehicle.
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	KN_RGS_VL_ECUKnockOut	3	2	2	Cyclic	0	valid value	200 ms						0 1 2 3	Function_not_deleted Veto_was_active Function_deleted Function_deactivated		S	Output of the ECU knockout status
KN_RGS_VL	0x17F0005	#######	FD	16						void	3	4	1														
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	RGS_VL_Local active	3	5	1	Cyclic	0	valid value							0 1	was_not_local_active was_local_active		0	Indicates whether the SG was still active after terminal15 OFF and after the corresponding MAX active time.
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	RGS_VL_Subsystem active	3	6	1	Cyclic	0	valid value							0 1	Subsystem_was_not_locally_active was_locally_active		0	Indicates whether a subsystem of the SG was still active after terminal15 OFF and after the corresponding MAX active time.
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	RGS_VL_KD_error	3	7	1	Cyclic	0	not provided							0 1	no_KD_error KD_error		0	
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	KN_RGS_VL_ECUKnockOutTim	4	0	6	Cyclic	0	valid value	200 ms	0	62	0 .. 62	0	1	63	ECUKnockOut_disabled		S	Output of the ECUKnockOut timer
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	KN_RGS_VL_BusKnockOut	4	6	2	Cyclic	0	valid value	200 ms						0 1 2 3	Function_not_deleted Veto_active Function_deleted Function_deactivated		S	Output of the BusKnockout status
KN_RGS_VL	0x17F0005	#######	FD	16	500		0	Application	Cyclic	KN_RGS_VL_BusKnockOutTim	5	0	8	Cyclic	0	valid value	200 ms	0	254	0 .. 254	0	1	255	BusKnockOut_disabled		S	Output of the BusKnockOut timer

KN_RGS_VL	0x17F0005	#######	FD	16	500			0	Application	Cyclic		NM_RGS_VL_FCIB	6	0	56	Cyclic				0			not provided								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736	nit 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_PreHeater 37_HighVoltage_WirelessChargingStation					0		CIB = Function Cluster Initialization Bits
KN_RGS_VL	0x17F0005	#######	FD	16								void	13	0	32																								
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		RGS_VR_CompProtection	1	0	1	Cyclic				0			not provided								0 1	nactiv e active						0	unction restriction due to component protection active
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		RGS_VR_shutdown stage	1	1	1	Cyclic				0			not provided								0 1	no_restriction Functional estriction						0	unction restriction due to active shutdown stage
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		RGS_VR_Transport_Mode	1	2	1	Cyclic				0			not provided								0 1	no_restriction Functional estriction						0	unctional limitation due to active transport mode and/or ransport protection
KN_RGS_VR	0x17F0005	#######	FD	16								void	1	3	1																								
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		RGS_VR_trailing type	1	4	4	Cyclic				2			not provided								0 1 2	Come_on_KL15_ON Come_on_KL15_OFF Come_on_KL15_OFF						0	hown is the possibility given by the hardware to maintain the ommunication after terminal 15 = OFF. An Init value is sent.
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		RGS_VR_SNI_10	2	0	10	Cyclic				95			valid value								95	RGS_VR_SNI						0	ource Node-Identifier (SNI) uniquely identifies the sender of the NM nessage (node address) in the vehicle.
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		KN_RGS_VR_ECUKnockOut	3	2	2	Cyclic				0			valid value								0 1 2 3	Function_not_deleted Veto_was_active Function_deleted Function_deactivated						S	utput of the ECU knockout status
KN_RGS_VR	0x17F0005	#######	FD	16								void	3	4	1																								
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		RGS_VR_Local active	3	5	1	Cyclic				0			valid value								0 1	was_not_local_active was_local_active						0	ndicates whether the SG was still active after terminal15 OFF nd after the corresponding MAX active time.
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		RGS_VR_Subsystem active	3	6	1	Cyclic				0			valid value								0 1	Subsystem_was_not_locally_active was_locally_active						0	ndicates whether a subsystem of the SG was still active after erminal15 OFF and after the corresponding MAX active time.
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		RGS_VR_KD_error	3	7	1	Cyclic				0			not provided								0 1	no_KD_error KD_error						0	
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		KN_RGS_VR_ECUKnockOutTi	4	0	6	Cyclic				0			valid value		0	62	0 .. 62		0	1	63	ECUKnockOut_disabled						S	utput of the ECUKnockOut timer
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		KN_RGS_VR_BusKnockOut	4	6	2	Cyclic				0			valid value								0 1 2 3	Function_not_deleted Veto_active Function_deleted Function_deactivated						S	utput of the BusKnockout status
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		KN_RGS_VR_BusKnockOutTim	5	0	8	Cyclic				0			valid value		0	254	0 .. 254		0	1	255	BusKnockOut_disabled						S	utput of the BusKnockOut timer
KN_RGS_VR	0x17F0005	#######	FD	16	500			0	Application	Cyclic		NM_RGS_VR_FCIB	6	0	56	Cyclic				0			not provided								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736	nit 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_PreHeater 37_HighVoltage_WirelessChargingStation						0	CIB = Function Cluster Initialization Bits
KN_RGS_VR	0x17F0005	#######	FD	16								void	13	0	32																								
NM_Airbag	0x1B00001	#######	FD	24								void	1	0	4																								
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_CBV_AWB	1	4	1	NoSigSendType				0			valid value								0 1	Passive_WakeUp Active_WakeUp	S						he signal is to be set when the SG has actively woken up the bus = Passive_WakeUp = SG did not actively wake up the network = Active_WakeUp = SG has actively woken up the network
NM_Airbag	0x1B00001	#######	FD	24								void	1	5	1																								

NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_CBV_CRI	1	6	1	NoSigSendType							valid value							0 1	NM_without_cluster_requirements NM_with_cluster_requirements	S						he signal is permanently set if the NM layout contains cluster equests
NM_Airbag	0x1B00001	#######	FD	24								void	1	7	1																							
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_FCAB	2	0	56	OnChangeWithRepetition				0			valid value							0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736	nit 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation	S	E	E	E	E	E	CAB = Function Cluster Active Bits
NM_Airbag	0x1B00001	#######	FD	24								void	9	0	64																							
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_SNI_10	17	0	10	NoSigSendType				21			valid value							21	Airbag_01_SNI	S						ource Node-Identifier (SNI) uniquely identifies the sender of the NM message (node address) in the vehicle.
NM_Airbag	0x1B00001	#######	FD	24								void	18	2	6																							
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_NM_State	19	0	6	NoSigSendType				0			valid value							0 1 2 4 8 16 32	nit NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS eserved eserved	S						= State Repeat Message (<-- Bus-Sleep Mode) = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 State Normal Operation (<-- Repeat Message) = Normal Operation state (<-- Ready Sleep)
NM_Airbag	0x1B00001	#######	FD	24								void	19	6	1																							
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_UDS_CC	19	7	1	NoSigSendType				0			valid value							0 1	nactive CC_active	S						unction restriction due to active UDS-Communication Control, see VW80124
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_Wakeup	20	0	8	NoSigSendType				0			valid value							0 1 2 3 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Seat occupancy detection_driver Seat belt buckle detection_driver	S						ontains the wake-up cause; if several wake-up causes are resent in parallel, then the smallest value must be transmitted
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_NM_aktiv_KL15	21	0	1	NoSigSendType				0			valid value							0 1	nactive KL15_ON	S						ontrol unit has detected KL15-EIN
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_NM_active_Diag	21	1	1	NoSigSendType				0			valid value							0 1	nactive Diagnosis_active	S						iagnosis is in a NonDefaultDiagnostic-Session, e.g. xtendedDiagnostic-Session, according to VW80124.
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_NM_active_Tmin	21	2	1	NoSigSendType				0			valid value							0 1	nactive Minimum active time	S						inimum active time has not yet expired (the minimum ctive time is restarted with each wake-up event).
NM_Airbag	0x1B00001	#######	FD	24								void	21	3	1																							
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_Kl15_implausible	21	4	1	NoSigSendType				0			valid value							0 1	nactiv e Active	S						he triggering capability remains after SW KL15 ON --> OFF ntil HW Kl15 is also OFF (and also V< parameterizable speed hreshold is detected for a parameterizable time). After that, the iggering capability in the airbag ends and is only reactivated by KL15ON.
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_seat occupancy	21	5	1	NoSigSendType				0			valid value							0 1	nactiv e Active	S						When a change in seat occupancy is detected, the airbag wakes p the UserStateServer to notify driver presence or driver bsence. At the same time, the airbag must wake up the TSG to void a delay due to a cascaded wakeup by the UserStatesServer.
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_trigger_able	21	6	1	NoSigSendType				0			valid value							0 1	nactiv e Active	S						he tripping capability is established with KL15 On. The iggering capability remains after KL15 ON --> OFF until V< parameterizable speed threshold" is also detected for a arameterizable time (overrun cause). After this, the triggering apability in the airbag ends and is only reactivated by KL15ON.
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_lock	21	7	1	NoSigSendType				0			valid value							0 1	nactiv e Active	S						When a change in seat belt buckle status is detected, the airbag wakes up the UserStateServer to communicate the information elted / not belted. At the same time, the airbag must wake up he TSG to avoid a delay due to a cascaded wakeup by the UserStatesServer.
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_parking	22	0	1	NoSigSendType				0			valid value							0 1	nactiv e Active	S						he airbag must keep the SC-CAN awake to the reversible belt ensioners when the belt parking function is active
NM_Airbag	0x1B00001	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_drive_CAN_active	22	1	1	NoSigSendType				0			valid value							0 1	nactiv e Active	S						he airbag must always keep the SC-CAN awake as a subCAN to he reversible belt tensioners as long as the A-CAN is active.
NM_Airbag	0x1B00001	#######	FD	24								void	22	2	6																							
NM_Airbag	0x1B00001	#######	FD	24								void	23	0	16																							
NM_RGS_HL	0x1B0000F	#######	FD	24								void	1	0	4																							
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_CBV_AWB	1	4	1	NoSigSendType				0			valid value							0 1	Passive_WakeUp Active_WakeUp			S				he signal is to be set when the SG has actively woken up the bus = Passive_WakeUp = SG did not actively wake up the network = Active_WakeUp = SG has actively woken up the network
NM_RGS_HL	0x1B0000F	#######	FD	24								void	1	5	1																							

NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_CBV_CRI	1	6	1	NoSigSendType	1	valid value	0 1	NM_without_cluster_requirements NM_with_cluster_requirements			S				The signal is permanently set if the NM layout contains cluster requests
NM_RGS_HL	0x1B0000F	#######	FD	24								void	1	7	1												
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_FCAB	2	0	56	OnChangeWithRepetition	0	valid value	0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation	E	E	S	E	E	E	FCAB = Function Cluster Active Bits
NM_RGS_HL	0x1B0000F	#######	FD	24								void	9	0	64												
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_SNI_10	17	0	10	NoSigSendType	249	valid value	286	RGS_HL_SNI			S				Source Node-Identifier (SNI) uniquely identifies the sender of the NM message (node address) in the vehicle.
NM_RGS_HL	0x1B0000F	#######	FD	24								void	18	2	6												
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_NM_State	19	0	6	NoSigSendType	0	valid value	0 1 2 4 8 16 32	Init NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS reserved reserved			S				= State Repeat Message (<-- Bus-Sleep Mode) = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 State Normal Operation (<-- Repeat Message) = Normal Operation state (<-- Ready Sleep)
NM_RGS_HL	0x1B0000F	#######	FD	24								void	19	6	1												
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_UDS_CC	19	7	1	NoSigSendType	0	valid value	0 1	Inactive CC_active			S				Function restriction due to active UDS-Communication Control, see VW80124
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_Wakeup_V12	20	0	8	NoSigSendType	0	valid value	0 1 2 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Belt_movement_detected			S				Contains the wake-up cause; if several wake-up causes are present in parallel, then the smallest value must be transmitted
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_NM_aktiv_KL15	21	0	1	NoSigSendType	0	valid value	0 1	Inactive KL15_ON			S				Control unit has detected KL15-EIN
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_NM_active_Diag	21	1	1	NoSigSendType	0	valid value	0 1	Inactive Diagnosis_active			S				Diagnosis is in a NonDefaultDiagnostic-Session, e.g. ExtendedDiagnostic-Session, according to VW80124.
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_NM_active_Tmin	21	2	1	NoSigSendType	0	valid value	0 1	Inactive Minimum active time			S				Minimum active time has not yet expired (the minimum active time is restarted with each wake-up event).
NM_RGS_HL	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_motion_HL	21	3	1	NoSigSendType	0	not provided	0 1	Inactiv e Active			S				At Kl15 ON->OFF the RGS (VR,VR,HL, HR) go into a local overrun (without bus activity). If belt movement is detected within this time, the corresponding RGS wakes up the airbag control unit to start the belt parking function (function master is in the airbag). The overrun is then started via the airbag control unit.
NM_RGS_HL	0x1B0000F	#######	FD	24								void	21	4	4												
NM_RGS_HL	0x1B0000F	#######	FD	24								void	22	0	24												
NM_RGS_HR	0x1B0000F	#######	FD	24								void	1	0	4												
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_CBV_AWB	1	4	1	NoSigSendType	0	valid value	0 1	Passive_WakeUp Active_WakeUp				S			The signal is to be set when the SG has actively woken up the bus = Passive_WakeUp = SG did not actively wake up the network = Active_WakeUp = SG has actively woken up the network
NM_RGS_HR	0x1B0000F	#######	FD	24								void	1	5	1												
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_CBV_CRI	1	6	1	NoSigSendType	0	valid value	0 1	NM_without_cluster_requirements NM_with_cluster_requirements				S			The signal is permanently set if the NM layout contains cluster requests
NM_RGS_HR	0x1B0000F	#######	FD	24								void	1	7	1												

NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_FCAB	2	0	56	OnChangeWithRepetition	0	valid value	0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation	E	E	E	S	E	E	FCAB = Function Cluster Active Bits
NM_RGS_HR	0x1B0000F	#######	FD	24								void	9	0	64												
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_SNI_10	17	0	10	NoSigSendType	0	valid value	287	RGS_HR_SNI				S			Source Node-Identifier (SNI) uniquely identifies the sender of the NM message (node address) in the vehicle.
NM_RGS_HR	0x1B0000F	#######	FD	24								void	18	2	6												
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_NM_State	19	0	6	NoSigSendType	0	valid value	0 1 2 4 8 16 32	Init NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS reserved reserved				S			= State Repeat Message (<-- Bus-Sleep Mode) = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 State Normal Operation (<-- Repeat Message) = Normal Operation state (<-- Ready Sleep)
NM_RGS_HR	0x1B0000F	#######	FD	24								void	19	6	1												
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_UDS_CC	19	7	1	NoSigSendType	0	valid value	0 1	Inactive CC_active				S			Function restriction due to active UDS-Communication Control, see VW80124
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_Wakeup_V12	20	0	8	NoSigSendType	0	valid value	0 1 2 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Belt_movement_detected				S			Contains the wake-up cause; if several wake-up causes are present in parallel, then the smallest value must be transmitted
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_NM_aktiv_KL15	21	0	1	NoSigSendType	0	valid value	0 1	Inactive KL15_ON				S			Control unit has detected KL15-EIN
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_NM_active_Diag	21	1	1	NoSigSendType	0	valid value	0 1	Inactive Diagnosis_active				S			Diagnosis is in a NonDefaultDiagnostic-Session, e.g. ExtendedDiagnostic-Session, according to VW80124.
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_NM_active_Tmin	21	2	1	NoSigSendType	0	valid value	0 1	Inactive Minimum active time				S			Minimum active time has not yet expired (the minimum active time is restarted with each wake-up event).
NM_RGS_HR	0x1B0000F	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_movement_HR	21	3	1	NoSigSendType	0	not provided	0 1	Inactiv e Active				S			At Kl15 ON->OFF the RGS (VR,VR,HL, HR) go into a local overrun (without bus activity). If a belt movement is detected within this time, the corresponding RGS wakes up the airbag control unit to start the belt parking function (function master is in the airbag). The overrun is then started via the airbag control unit.
NM_RGS_HR	0x1B0000F	#######	FD	24								void	21	4	4												
NM_RGS_HR	0x1B0000F	#######	FD	24								void	22	0	24												
NM_RGS_VL	0x1B00005	#######	FD	24								void	1	0	4												
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_CBV_AWB	1	4	1	NoSigSendType	0	valid value	0 1	Passive_WakeUp Active_WakeUp					S		The signal is to be set when the SG has actively woken up the bus = Passive_WakeUp = SG did not actively wake up the network = Active_WakeUp = SG has actively woken up the network
NM_RGS_VL	0x1B00005	#######	FD	24								void	1	5	1												
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_CBV_CRI	1	6	1	NoSigSendType	1	valid value	0 1	NM_without_cluster_requirements NM_with_cluster_requirements					S		The signal is permanently set if the NM layout contains cluster requests
NM_RGS_VL	0x1B00005	#######	FD	24								void	1	7	1												

NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_FCAB	2	0	56	OnChangeWithRepetition	0	valid value	0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation	E	E	E	E	S	E	FCAB = Function Cluster Active Bits
NM_RGS_VL	0x1B00005	#######	FD	24								void	9	0	64												
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_SNI_10	17	0	10	NoSigSendType	94	valid value	42	RGS_VL_SNI					S		Source Node-Identifier (SNI) uniquely identifies the sender of the NM message (node address) in the vehicle.
NM_RGS_VL	0x1B00005	#######	FD	24								void	18	2	6												
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_NM_State	19	0	6	NoSigSendType	0	valid value	0 1 2 4 8 16 32	Init NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS reserved reserved					S		= State Repeat Message (<-- Bus-Sleep Mode) = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 State Normal Operation (<-- Repeat Message) = Normal Operation state (<-- Ready Sleep)
NM_RGS_VL	0x1B00005	#######	FD	24								void	19	6	1												
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_UDS_CC	19	7	1	NoSigSendType	0	valid value	0 1	Inactive CC_active					S		Function restriction due to active UDS-Communication Control, see VW80124
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_Wakeup_V12	20	0	8	NoSigSendType	0	valid value	0 1 2 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Belt_movement_detected					S		Contains the wake-up cause; if several wake-up causes are present in parallel, then the smallest value must be transmitted
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_NM_aktiv_KL15	21	0	1	NoSigSendType	0	valid value	0 1	Inactive KL15_ON					S		Control unit has detected KL15-EIN
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_NM_active_Diag	21	1	1	NoSigSendType	0	valid value	0 1	Inactive Diagnosis_active					S		Diagnosis is in a NonDefaultDiagnostic-Session, e.g. ExtendedDiagnostic-Session, according to VW80124.
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_NM_active_Tmin	21	2	1	NoSigSendType	0	valid value	0 1	Inactive Minimum active time					S		Minimum active time has not yet expired (the minimum active time is restarted with each wake-up event).
NM_RGS_VL	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_movement_VL	21	3	1	NoSigSendType	0	not provided	0 1	Inactiv e Active					S		At Kl15 ON->OFF the RGS (VR,VR,HL, HR) go into a local overrun (without bus activity). If a belt movement is detected within this time, the corresponding RGS wakes up the airbag control unit to start the belt parking function (function master is in the airbag). The overrun is then started via the airbag control unit.
NM_RGS_VL	0x1B00005	#######	FD	24								void	21	4	4												
NM_RGS_VL	0x1B00005	#######	FD	24								void	22	0	24												
NM_RGS_VR	0x1B00005	#######	FD	24								void	1	0	4												
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_CBV_AWB	1	4	1	NoSigSendType	0	valid value	0 1	Passive_WakeUp Active_WakeUp						S	The signal is to be set when the SG has actively woken up the bus = Passive_WakeUp = SG did not actively wake up the network = Active_WakeUp = SG has actively woken up the network
NM_RGS_VR	0x1B00005	#######	FD	24								void	1	5	1												
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_CBV_CRI	1	6	1	NoSigSendType	1	valid value	0 1	NM_without_cluster_requirements NM_with_cluster_requirements						S	The signal is permanently set if the NM layout contains cluster requests
NM_RGS_VR	0x1B00005	#######	FD	24								void	1	7	1												

NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_FCAB	2	0	56	OnChangeWithRepetition	0	valid value							0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation	E	E	E	E	E	S	FCAB = Function Cluster Active Bits
NM_RGS_VR	0x1B00005	#######	FD	24								void	9	0	64																		
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_SNI_10	17	0	10	NoSigSendType	95	valid value							43	RGS_VR_SNI						S	Source Node-Identifier (SNI) uniquely identifies the sender of the NM message (node address) in the vehicle.
NM_RGS_VR	0x1B00005	#######	FD	24								void	18	2	6																		
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_NM_State	19	0	6	NoSigSendType	0	valid value							0 1 2 4 8 16 32	Init NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS reserved reserved						S	= State Repeat Message (<-- Bus-Sleep Mode) = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 State Normal Operation (<-- Repeat Message) = Normal Operation state (<-- Ready Sleep)
NM_RGS_VR	0x1B00005	#######	FD	24								void	19	6	1																		
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_UDS_CC	19	7	1	NoSigSendType	0	valid value							0 1	Inactive CC_active						S	Function restriction due to active UDS-Communication Control, see VW80124
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_Wakeup_V12	20	0	8	NoSigSendType	0	valid value							0 1 2 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Belt_movement_detected						S	Contains the wake-up cause; if several wake-up causes are present in parallel, then the smallest value must be transmitted
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_NM_aktiv_KL15	21	0	1	NoSigSendType	0	valid value							0 1	Inactive KL15_ON						S	Control unit has detected KL15-EIN
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_NM_active_Diag	21	1	1	NoSigSendType	0	valid value							0 1	Inactive Diagnosis_active						S	Diagnosis is in a NonDefaultDiagnostic-Session, e.g. ExtendedDiagnostic-Session, according to VW80124.
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_NM_active_Tmin	21	2	1	NoSigSendType	0	valid value							0 1	Inactive Minimum active time						S	Minimum active time has not yet expired (the minimum active time is restarted with each wake-up event).
NM_RGS_VR	0x1B00005	#######	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_motion_VR	21	3	1	NoSigSendType	0	not provided							0 1	Inactiv e Active						S	At Kl15 ON->OFF the RGS (VR,VR,HL, HR) go into a local overrun (without bus activity). If a belt movement is detected within this time, the corresponding RGS wakes up the airbag control unit to start the belt parking function (function master is in the airbag). The overrun is then started via the airbag control unit.
NM_RGS_VR	0x1B00005	#######	FD	24								void	21	4	4																		
NM_RGS_VR	0x1B00005	#######	FD	24								void	22	0	24																		
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_12_CRC	1	0	8	Cyclic	0	valid value		0	255	0 .. 255	0	1									For MLB: Calculation see "Communication protection for FlexRay and CAN" specification sheet From MQB and MLBevo: For calculation, see "End-to-end communication protection" specification sheet For end values see accompanying document "S-PDU identification sequences Kennungsfolge: 0xd4,0x37,0x91,0x7d,0x5f,0xf3,0xbc,0xa9,0xd2,0x18,0x96,0x46,0 xf8,0x6d,0xf5,0x4d
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_12_BZ	2	0	4	Cyclic	0	valid value		0	15	0 .. 15	0	1									bit message counter, incremented with each transmit message
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_vehicle network diagnostics	2	4	2	Cyclic	0	valid value	200 ms						0 1 2 3	no_error warning_1 warning_2 warning_3							If an on-board network fault is detected by the NVEM in the LV network, this should result in a multi-level display.
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_Last_Anf	2	6	2	Cyclic	0	valid value							0 1 2 3	no requirement consumer_requirement_level_1 consumer_requirement_level_2 consumer_requirement_level_3							The NVEM requests a load pulse from the vehicle for battery diagnostics, which is generated by controlled consumer switching (e.g. activation of rear window heating)
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_HL_Regulation_Status	3	0	3	Cyclic	0	valid value							0 1 2 3 4 5 7	HL_Control_inactive_(before_and_during_engine_ start) HL_Control_stage_1 HL_Control_stage_2 HL_Control_stage_3 Consumer emergency shutdown_(VNA) HL_Control_stage_5 Default							Status control heating power
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_shutdown stage	3	3	2	Cyclic	0	valid value							0 1 2 3	Level_0_no_restriction Level_1 Level_2 Level_3	S*		E	E	E	E	Shutdown level from quiescent power management Measures of the receiver are defined in QLAH Quiescent power management
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_NV_BAT_ZellStatus_Ind	3	5	4	Cyclic	0	valid value							0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Cell_Nr_1 Cell_Nr_2 Cell_Nr_3 Cell_Nr_4 Cell_Nr_5 Cell_Nr_6 Cell_Nr_7 Cell_Nr_8 Cell_Nr_9 Cell_Nr_10 Cell_Nr_11 Cell_Nr_12 Cell_Nr_13 Cell_Nr_14 Cell_Nr_15							Multiplex signal for cell number of low voltage battery.

NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_NV_BAT_ZellStatus_Ty	4	1	3	Cyclic				0			valid value								0 1 2 3 4 5 6 7	nit Voltage Temperature Voltage limit SoF SoH_C eserved eserved							ultiplex signal for cell status of low voltage battery.
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_release_OTA	4	4	2	Cyclic				0			valid value								0 1 2	nit No_enable Enable							onfirmation or rejection of a specific, requested online update by nergy Management.
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_generator diagnostics	4	6	2	Cyclic				0			valid value								0 1 2 3	No display Charge control display on (hold-off) ed battery symbol and text (generator defective) Hybrid_DCDC_converter_defective							ontrol generator warning light in station wagon
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_DC_uSoll_NV	5	0	8	Cyclic				116	255		valid value	200 ms	0	216	10.6 .. 16	Unit_Volt	10.6	0.025	255	Error							et voltage 12V side of DC converter, fine resolution
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_DC_iSoll_NV	6	0	8	Cyclic				254	255		valid value		0	253	-253 .. 0	Unit_Amper	253	1	254 255	nit rror							arget discharge current 12V side of DCDC converter
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_Batt_Ab	7	0	1	Cyclic				0			valid value								0 1	connected not_connected							attery connection control: 0x0: attery on board network x1: Battery off detected
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_Red_Indoor_blower	7	1	2	Cyclic				0			valid value								0 1 2 3	no reduction reduction level Reduction level 2 Reduction stage 2 and compressor shutdown							eduction indoor fan
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_MV_DC_uMinLV	7	3	7	Cyclic				126	127		valid value	200 ms	0	125	3.5 .. 16	Unit_Volt	3.5	0.1	126 127	nit rror							ettling limit: minimum permissible on-board voltage in step-up node from the 12V on-board network to the 48V network
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_MV_DC_uSollLV	8	2	7	Cyclic				126	127		valid value	200 ms	0	108	10.6 .. 16	Unit_Volt	10.6	0.05	126 127	nit rror							etpoint for 12V on-board voltage in step-down mode from 8V mains to 12V on-board mains
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_STH_Inhibition to switch on	9	1	1	Cyclic				0			valid value								0 1	ull availability auxiliary heating/ventilation auxiliary heating/ventilation cannot be activated							estriction of parking heater/ventilation by BEM: If the BEM sets he bit, then the parking heater must no longer switch on. The parking heater does not have to switch off, however, but may ontinue to burn). nitialization value from EEprom)
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_STH_Target time	9	2	4	Cyclic				14	15		valid value		0	12	0 .. 60	Unit_Minut	0	5	14 15	nit rror							aximum possible time for the parking heater operation in order not o endanger the startability
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_Consumer_Information	9	6	3	Cyclic				6	7		valid value								0 1 2 3 4 5 6 7	No_display MMI_prewarning Display_Consumer shutdown eserved eserved eserved nit error							With this signal, the NVM triggers an indication of an imminent or ompleted consumer disconnection.
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM3_Absch_SCR	10	1	1	Cyclic				0			valid value	200 ms							0 1	nit shutdown_SCR							hutdown of the SCR heater by the NVEM in the event of critical nergy conditions.
NVEM_12	0x237	567	FD	12								void	10	2	2																								
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_Onboard_Network_Information	10	4	4	Cyclic				14	15		valid value								0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	no_display NV_battery_iO NV_charge_battery NV_check_battery NV_low_battery NV_down_battery NV_service NV_Energy_system_implausible Charge control light Generator_defective eserved eserved eserved nit error							nformation displays to the 12V - on-board network
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_DC_uMin_NV	11	0	8	Cyclic				122			not provided		0	255	0 .. 25.5	Unit_Volt	0	0.1									inimum voltage of the DCDC converter in step-up mode to 12V ide
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_MV_DC_iSoll_NV	12	0	8	Cyclic				254	255		valid value	200 ms	0	253	-253 .. 0	Unit_Amper	253	1	254 255	nit rror							etpoint current specification NVEM to MV - DCDC converter
OBDC_SSN_eCS_Req_FD	0x1C40720	#######	FD	64				0	TP-ISO	NoMsgSendType		OBDC_SSN_eCS_Req_FD_Dat	1	0	512	OnChange							valid value										S*	E					equest FID to NA communication between nboardDiagnoseClient and DK2F Sub-System
OBDC_SSN_eCS_Resp_FD	0x1C42720	#######	FD	64				0	TP-ISO	NoMsgSendType		OBDC_SSN_eCS_Resp_FD_D	1	0	512	OnChange							valid value										E*	S					esponse FID to NA communication between nboardDiagnosticClient and DK2F Sub-System
OBDC_SSN_RGS_HL_Req	0x17FC71	#######	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_HL_Req_Da	1	0	64	OnChange							valid value										S*		E				nBoard Tester Diagnostic Request RGS_HL
OBDC_SSN_RGS_HL_Resp	0x17FE711	#######	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_HL_Resp_D	1	0	64	OnChange							valid value										E*		S				nBoard Tester Diagnostic Response RGS_HL
OBDC_SSN_RGS_HR_Req	0x17FC71	#######	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_HR_Req_Da	1	0	64	OnChange							valid value										S*			E			nBoard Tester Diagnostic Request RGS_HR
OBDC_SSN_RGS_HR_Resp	0x17FE711	#######	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_HR_Resp_D	1	0	64	OnChange							valid value										E*			S			nBoard Tester Diagnostic Response RGS_HR
OBDC_SSN_RGS_VL_Req	0x17FC70	#######	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_VL_Req_Da	1	0	64	OnChange							valid value										S*				E		nBoard Tester Diagnostic Request RGS_VL
OBDC_SSN_RGS_VL_Resp	0x17FE702	#######	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_VL_Resp_D	1	0	64	OnChange							valid value										E*				S		nBoard Tester Diagnostic Response RGS_VL
OBDC_SSN_RGS_VR_Req	0x17FC70	#######	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_VR_Req_Da	1	0	64	OnChange							valid value										S*					E	nBoard Tester Diagnostic Request RGS_VR
OBDC_SSN_RGS_VR_Resp	0x17FE702	#######	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_VR_Resp_D	1	0	64	OnChange							valid value										E*					S	nBoard Tester Diagnostic Response RGS_VR
ORU_01	0x1A55554	#######	FD	8								void	1	0	56																								
ORU_01	0x1A55554	#######	FD	8								void	8	0	2																								
ORU_01	0x1A55554	#######	FD	8	500		100	0	Application	Cyclic		ORU_Warning	8	2	2	OnChange				0			valid value								0 1 2 3	no_display Update_incomplete_Prio1 Update_failed_Prio1 reserved	0*						malfunctions of the Online Remote Update function do not ensure hat no functional restrictions occur before the customer, the user of he vehicle must be warned accordingly.
ORU_01	0x1A55554	#######	FD	8								void	8	4	1																								
ORU_01	0x1A55554	#######	FD	8	500		100	0	Application	Cyclic		ORU_Status	8	5	3	OnChange				0			valid value								0 1 2 3 4 5 6 7	IDLE PENDING PREPARATION PREPARATION_HV RUNNING RUNNING_HV PENDING_NOTREADY FAILURE_POWERTRAIN_DISABLED	S*		E	E	E	E	istribution of the internal ORU state
RadioFunc_01	0x16A9552	#######	FD	12								void	1	0	8																								
RadioFunc_01	0x16A9552	#######	FD	12								void	2	0	4																								
RadioFunc_01	0x16A9552	#######	FD	12	1000		50	0	Application	Cyclic		WLC1_System state	2	4	1	Cyclic				0			valid value								0 1	Wireless_Charger_off nitValue_Wireless_Charger_on							= Wireless Charger off (Message produced by HMI) = Wireless Charger on (Message produced by HMI)
RadioFunc_01	0x16A9552	#######	FD	12	1000		50	0	Application	Cyclic		WLC2_System state	2	5	1	Cyclic				0			valid value								0 1	Wireless_Charger_off nitValue_Wireless_Charger_on							= Wireless Charger off = Wireless Charger on

RadioFunc_01	0x16A9552	#######	FD	12	1000		50	0	Application	Cyclic		RA_Frequency_unit	2	6	2	OnChange				0			valid value								0 1	_kHz 00_kHz	S*		E	E	E	E	actor for RA_Frequency t AM: Factor 0 = 1kHz therwise Factor 1 = 00kHz
RadioFunc_01	0x16A9552	#######	FD	12	1000		50	0	Application	Cyclic		RA_Frequency	3	0	14	OnChange				0			valid value		0	16383	0 .. 16383	Unit_None	0	1			S*		E	E	E	E	ransmission of the set transmission frequency AM or FM, this is nultiplied by RA_Frequency_unit. n DAB or Hybrid/Online mode, the current FM alternative requency or, if not available, the last station frequency heard is ransmitted (AM xor FM). he CAN bus signal receivers detune their clock- oscillator frequencies, so that the set radio transmission requency is not disturbed. Only static frequencies are transmitted on the bus.
RadioFunc_01	0x16A9552	#######	FD	12	1000		50	0	Application	Cyclic		RA_AM_Tuning	4	6	1	OnChange				0			valid value								0 1	requency_locked AM_tuning	S*		E	E	E	E	he signal indicates an active AM search run. During the search un, the frequency = 0 is transmitted. = frequency locked => interference source avoids the current requency = AM tuning in progress => switch off interference source or witch PWM signal to DC
RadioFunc_01	0x16A9552	#######	FD	12								void	4	7	1																								
RadioFunc_01	0x16A9552	#######	FD	12								void	5	0	64																								
RGS_Anf_01	0x12DD55	#######	FD	16								void	1	0	8																								
RGS_Anf_01	0x12DD55	#######	FD	16								void	2	0	4																								
RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_VL_Requirement	2	4	5	OnChangeWithRepetition				31			valid value	200 ms							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 31	no_action ightening_1 ightening_2 ightening_3 ightening_4 ightening_5 ightening_6 ightening_7 ightening_8 ightening_9 ightening_10 ightening_11 ightening_12 ightening_13 ightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Init	S				E		Control of reversible belt tensioner_VL
RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_VR_Requirement	3	1	5	OnChangeWithRepetition				31			valid value	200 ms							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 31	no_action ightening_1 ightening_2 ightening_3 ightening_4 ightening_5 ightening_6 ightening_7 ightening_8 ightening_9 ightening_10 ightening_11 ightening_12 ightening_13 ightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Init	S					E	Control of reversible belt tensioner_VR
RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_HL_Requirement	3	6	5	OnChangeWithRepetition				31			valid value	200 ms							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 31	no_action ightening_1 ightening_2 ightening_3 ightening_4 ightening_5 ightening_6 ightening_7 ightening_8 ightening_9 ightening_10 ightening_11 ightening_12 ightening_13 ightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Init	S		E				Control of reversible belt tensioner_HL

RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_HR_Requirement	4	3	5	OnChangeWithRepetition	31		valid value	200 ms							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 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Init	S		E			Control of reversible belt tensioner_VL
RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_VL_trailing_2	5	0	1	Cyclic	0		valid value	200 ms							0 1	Overtravel_2_not_active Overtravel_2_active	S			E		RGS VL executes the overrun time 2
RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_VR_trailing_2	5	1	1	Cyclic	0		valid value	200 ms							0 1	Overtravel_2_not_active Overtravel_2_active	S				E	RGS VR executes the overrun time 2
RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_HL_trailing_2	5	2	1	Cyclic	0		valid value	200 ms							0 1	Overtravel_2_not_active Overtravel_2_active	S	E				RGS HL executes the follow-up time 2
RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_HR_trailing_2	5	3	1	Cyclic	0		valid value	200 ms							0 1	Overtravel_2_not_active Overtravel_2_active	S		E			RGS HR executes the overrun time 2
RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_trailing_allg	5	4	1	Cyclic	0		valid value	200 ms							0 1	Overtravel_not_active Overtravel_active	S	E	E	E	E	RGS perform caster
RGS_Anf_01	0x12DD55	#######	FD	16	500	10	10	0	Application	Cyclic	5	RGS_Loading_permitted	5	5	1	OnChangeWithRepetition	0		valid value	200 ms							0 1	Loesen_nicht_erlaubt Loesen_erlaubt	S	E	E	E	E	Solution release to RGS (e.g. ball stable)
RGS_Anf_01	0x12DD55	#######	FD	16								void	5	6	2																			
RGS_Anf_01	0x12DD55	#######	FD	16								void	6	0	88																			
RGS_HL_01	0x217	535	FD	16								void	1	0	8																			
RGS_HL_01	0x217	535	FD	16								void	2	0	4																			
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Belt speed	2	4	10	OnChange	511	1023	not provided	200 ms	1	1021	-2550 .. 2550	Unit_DegreOfArcPerSecon	-2555	5	0 1022 1023	Infeed speed_too_high Outfeed speed_too_high Error	E	S				Positive values: belt extension negative values: belt intake
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_belt pullout	3	6	12	OnChange	4094	4095	not provided	200 ms	0	4093	-10235 .. 10230	Unit_DegreOfArc	-10235	5	4094 4095	Init Error	E	S				Length of the belt extension
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_no_streamlining_Unte	5	2	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits to Safety Computer that no tightening is possible due to undervoltage.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_not_programmed	5	3	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits an error to the safety computer if no penalty curves are programmed
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Ubertemperatur_def	5	4	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits to Safety Computer that RGS is defective due to temperature error.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Component error	5	5	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits a component fault to the Safety Computer.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_no_tightening_Uebe	5	6	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits to the Safety Computer that no tightening is possible due to overvoltage.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Max_beltless cycles	5	7	1	IfActive	1		valid value	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Temp	6	0	8	Cyclic	254	255	not provided	200 ms	0	253	-40 .. 86.5	Unit_DegreCelsi	40	0.5	254 255	Init Error	E	S				RGS rear left transmits temperature to Safety Computer.
RGS_HL_01	0x217	535	FD	16								void	7	0	1																			
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Undervoltage	7	1	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits undervoltage error to Safety Computer.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Max_train_cycle_shortages	7	2	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Max_Haptic_cycle_error	7	3	1	IfActive	1		valid value	200 ms							0 1	Error_active Error_not_active	E	S				The RGS transmits to the airbag that the maximum penalty cycle for haptics has been reached.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Crash shutdown	7	4	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits to the Safety Computer that RGS has stopped tightening due to a crash event.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Overvoltage	7	5	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits overvoltage errors to the Safety Computer.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Motor error	7	6	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S				RGS rear left transmits an engine fault to the Safety Computer.
RGS_HL_01	0x217	535	FD	16								void	7	7	1																			
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_InPos	8	0	1	Cyclic	0		not provided	200 ms							0 1	Out_of_Position In_Position	E	S				The RGS sets this signal when the occupant is sitting quietly in a "normal" position after the start of the journey (no more belt poseners present).
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Current	8	1	8	IfActive	254	255	not provided	200 ms	1	253	0.2 .. 50.6	Unit_Amper	0	0.2	0 254 255	Inactiv Init Error	E	S				RGS rear left transmits current value to Safety Computer.

RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic	RGS_HL_Status	9	1	5	IfActive	31		valid value	200 ms							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 30 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Faulty_penalty_request Faulty_Straffdurchfuehrung Init	E	S		Response from RGS HL as to which action will be taken.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic	RGS_HL_Max_NGU_cycle_error	9	6	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E	S		The RGS transmits to the airbag that the maximum number of tightening cycles for NGU has been reached
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic	RGS_HL_Max_P2P_cycle_error	9	7	1	IfActive	1		valid value								0 1	Error_active Error_not_active		0		The RGS transmits to the airbag that the maximum number of tightening cycles for Push2Pass has been reached.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic	RGS_HL_EEPROM_RAM_ROM	10	0	1	IfActive	1		valid value	200 ms							0 1	Error_active Error_not_active	E	S		RGS rear left transmits an EEPROM_RAM_ROOM_error to the Safety Computer
RGS_HL_01	0x217	535	FD	16							void	10	1	7																	
RGS_HL_01	0x217	535	FD	16							void	11	0	48																	
RGS_HR_01	0x21B	539	FD	16							void	1	0	8																	
RGS_HR_01	0x21B	539	FD	16							void	2	0	4																	
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Belt speed	2	4	10	OnChange	511	1023	not provided	200 ms	1	1021	-2550 .. 2550	Unit_DegreOfAr cPerSecon	-2555	5	0 1022 1023	Infeed speed_too_high Outfeed speed_too_high Error	E		S	positive values: belt extension negative values: belt intake
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_belt pullout	3	6	12	OnChange	4094	4095	not provided	200 ms	0	4093	-10235 .. 10230	Unit_DegreOfAr c	-10235	5	4094 4095	Init Error	E		S	Length of the belt extension
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_no_streamlining_Unte	5	2	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits to Safety Computer that no tightening is possible due to undervoltage.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_not_programmed	5	3	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS HR transmits an error to the safety computer if no penalty curves are programmed
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Ubertemperatur_def	5	4	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits to Safety Computer that RGS is defective due to temperature error.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Component error	5	5	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits a component fault to the Safety Computer.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_no_streamlining_Ueb	5	6	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits to the Safety Computer that no tightening is possible due to overvoltage.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Max_beltless cycles	5	7	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Temp	6	0	8	Cyclic	254	255	not provided	200 ms	0	253	-40 .. 86.5	Unit_DegreCelsi	-40	0.5	254 255	Init Error	E		S	RGS rear right transmits temperature to Safety Computer.
RGS_HR_01	0x21B	539	FD	16							void	7	0	1																	
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Undervoltage	7	1	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits undervoltage error to Safety Computer.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Max_train_cycle_error	7	2	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Max_Haptic_cyclesfeh	7	3	1	IfActive	1		valid value	200 ms							0 1	Error_active Error_not_active	E		S	The RGS transmits to the airbag that the maximum penalty cycle for haptics has been reached.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Crash shutdown	7	4	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits to the Safety Computer that RGS has aborted tightening due to a crash event.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Overvoltage	7	5	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits overvoltage errors to the Safety Computer.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Motor error	7	6	1	IfActive	1		not provided	200 ms							0 1	Error_active Error_not_active	E		S	RGS rear right transmits an engine fault to the Safety Computer.
RGS_HR_01	0x21B	539	FD	16							void	7	7	1																	
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_InPos	8	0	1	Cyclic	0		not provided	200 ms							0 1	Out_of_Position In_Position	E		S	The RGS sets this signal when the occupant is sitting quietly in a "normal" position after the start of the journey (no more belt looseners present).
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Current	8	1	8	IfActive	254	255	not provided	200 ms	1	253	0.2 .. 50.6	Unit_Amper	0	0.2	0 254 255	Inactiv e Init Error	E		S	RGS rear right transmits current value to Safety Computer.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic	RGS_HR_Status	9	1	5	IfActive	31		valid value	200 ms							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 30 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Faulty_penalty_request Faulty_Straffdurchfuehrung Init	E		S	Response from RGS HR as to which action will be taken.

RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Max_NGU_Zyklenfeh	9	6	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E			S			The RGS transmits to the airbag that the maximum number of tightening cycles for NGU has been reached
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Max_P2P_cycle_error	9	7	1	IfActive				1			valid value								0 1	Error_active Error_not_active				0			The RGS transmits to the airbag that the maximum number of tightening cycles for Push2Pass has been reached.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_EEPROM_RAM_RO	10	0	1	IfActive				1			valid value	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits an EEPROM_RAM_ROOM_error to the Safety Computer
RGS_HR_01	0x21B	539	FD	16								void	10	1	7																								
RGS_HR_01	0x21B	539	FD	16								void	11	0	48																								
RGS_VL_01	0x3D8	984	FD	16								void	1	0	8																								
RGS_VL_01	0x3D8	984	FD	16								void	2	0	4																								
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Belt speed	2	4	10	OnChange				511	1023		not provided	200 ms	1	1021	-2550 .. 2550	Unit_DegreOfArcPerSecon	-2555	5	0 1022 1023	Infeed speed_too_high Outfeed speed_too_high Error	E				S		positive values: belt extension negative values: belt intake
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_belt pullout	3	6	12	OnChange				4094	4095		not provided	200 ms	0	4093	-10235 .. 10230	Unit_DegreOfArc	-10235	5	4094 4095	Init Error	E				S		Length of the belt extension
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_noTighteningSubsp	5	2	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits to the Safety Computer that no tightening is possible due to undervoltage.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_not_programmed	5	3	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits an error to the safety computer if no penalty curves are programmed
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Ubertemperatur_def	5	4	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits to the Safety Computer that RGS is defective due to a temperature error.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Component error	5	5	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits a component fault to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_noTighteningUebers	5	6	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS rear left transmits to the Safety Computer that no tightening is possible due to overvoltage.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_beltless cycles	5	7	1	IfActive				1			valid value	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Temp	6	0	8	Cyclic				254	255		not provided	200 ms	0	253	-40 .. 86.5	Unit_DegreCelsi	-40	0.5	254 255	Init Error	E				S		RGS VL transmits temperature to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16								void	7	0	1																								
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Undervoltage	7	1	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits undervoltage errors to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_train_cycle_shortages	7	2	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_Haptic_cycle_error	7	3	1	IfActive				1			valid value	200 ms							0 1	Error_active Error_not_active	E				S		The RGS transmits to the airbag that the maximum penalty cycle for haptics has been reached.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Crash shutdown	7	4	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits to the Safety Computer that RGS has aborted the tightening process due to a crash event.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_overvoltage	7	5	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS rear left transmits overvoltage errors to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Motor error	7	6	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits a motor error to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16								void	7	7	1																								
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_InPos	8	0	1	Cyclic				0			not provided	200 ms							0 1	Out_of_Position In_Position	E				S		The RGS sets this signal when the occupant is sitting quietly in a "normal" position after the start of the journey (no more belt poseners present).
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Current	8	1	8	IfActive				254	255		not provided	200 ms	1	253	0.2 .. 50.6	Unit_Amper	0	0.2	0 254 255	Inactiv Init Error	E				S		RGS VL transmits current value to the safety computer.

RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Status	9	1	5	IfActive				31			valid value	200 ms							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 30 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Faulty_penalty_request Faulty_Straffdurchfuehrung Init	E				S		Response from RGS VL, which action will be carried out.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_NGU_cycle_error	9	6	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E				S		The RGS transmits to the airbag that the maximum number of tightening cycles for NGU has been reached
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_P2P_Cycle_Commands	9	7	1	IfActive				1			valid value								0 1	Error_active Error_not_active					0		The RGS transmits to the airbag that the maximum number of tightening cycles for Push2Pass has been reached.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_EEPROM_RAM_ROM	10	0	1	IfActive				1			valid value	200 ms							0 1	Error_active Error_not_active	E				S		RGS front left transmits an EEPROM_RAM_ROOM_error to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16								void	10	1	7																								
RGS_VL_01	0x3D8	984	FD	16								void	11	0	48																								
RGS_VR_01	0x3D9	985	FD	16								void	1	0	8																								
RGS_VR_01	0x3D9	985	FD	16								void	2	0	4																								
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_belt speed	2	4	10	OnChange				511	1023		not provided	200 ms	1	1021	-2550 .. 2550	Unit_DegreOfArcPerSecon	-2555	5	0 1022 1023	Infeed speed_too_high Outfeed speed_too_high Error	E					S	Positive values: belt extension negative values: belt intake
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_belt pullout	3	6	12	OnChange				4094	4095		not provided	200 ms	0	4093	-10235 .. 10230	Unit_DegreOfArc	-10235	5	4094 4095	Init Error	E					S	Length of the belt extension
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_noTighteningUnter	5	2	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits to the Safety Computer that no tightening is possible due to undervoltage.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_not_programmed	5	3	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits an error to the safety computer if no penalty curves are programmed
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Ubertemperatur_def	5	4	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits to the Safety Computer that RGS is defective due to a temperature error.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Component error	5	5	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits a component fault to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_noTighteningUebers	5	6	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS rear right transmits to the Safety Computer that no tightening is possible due to overvoltage.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_beltless cycles	5	7	1	IfActive				1			valid value	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Temp	6	0	8	Cyclic				254	255		not provided	200 ms	0	253	-40 .. 86.5	Unit_DegreCelsi	-40	0.5	254 255	Init Error	E					S	RGS VR transmits temperature to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16								void	7	0	1																								
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Undervoltage	7	1	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits undervoltage errors to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_Strain_cycle_shortages	7	2	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_Haptic_cyclesfeh	7	3	1	IfActive				1			valid value	200 ms							0 1	Error_active Error_not_active	E					S	The RGS transmits to the airbag that the maximum penalty cycle for haptics has been reached.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Crash shutdown	7	4	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits to the Safety Computer that RGS has aborted the tightening process due to a crash event.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Overvoltage	7	5	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS rear right transmits overvoltage errors to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Motor error	7	6	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits a motor error to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16								void	7	7	1																								
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_InPos	8	0	1	Cyclic				0			not provided	200 ms							0 1	Out_of_Position In_Position	E					S	The RGS sets this signal when the occupant is sitting quietly in a "normal" position after the start of the journey (no more belt poseners present).
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Current	8	1	8	IfActive				254	255		not provided	200 ms	1	253	0.2 .. 50.6	Unit_Amper	0	0.2	0 254 255	Inactiv Init Error	E					S	RGS VR transmits current value to the Safety Computer.

RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Status	9	1	5	IfActive				31			valid value	200 ms							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 30 31	o_action ightening_1 ightening_2 ightening_3 ightening_4 ightening_5 ightening_6 ightening_7 ightening_8 ightening_9 ightening_10 ightening_11 ightening_12 ightening_13 ightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless eduction Antipatina Belt parking_1 Belt parking_2 Function_end Faulty_penalty_request Faulty_Straffdurchfuehrung Init		E					S		esponse from RGS VR as to which action will be taken.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_NGU_Zyklenfeh	9	6	1	IfActive				1			not provided	200 ms							0 1	Error_active Error_not_active		E					S		he RGS transmits to the airbag that the maximum number of ghtening cycles for NGU has been reached
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_P2P_cycle_error	9	7	1	IfActive				1			valid value								0 1	Error_active Error_not_active							0		he RGS transmits to the airbag that the maximum number of ghtening cycles for Push2Pass has been reached.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_EEPROM_RAM_ROM	10	0	1	IfActive				1			valid value								0 1	Error_active Error_not_active		E					S		GS front right transmits an EEPROM_RAM_ROOM_error to he Safety Computer
RGS_VR_01	0x3D9	985	FD	16								void	10	1	7																										
RGS_VR_01	0x3D9	985	FD	16								void	11	0	48																										