



Sprinter PSM Software

MY25+ Standard Program – People Mover

Commercial Vans PSM Support

Mercedes-Benz
Vans. Born to run.



Notice

Mercedes-Benz USA, LLC (“MBUSA”) acknowledges receipt of the Parameterizable Special Module (“PSM”) request and provides this bulletin in response thereto. MBUSA does not in any way warrant the accuracy of the information contained in this bulletin and reserves the right to modify or append this bulletin without prior notification. MBUSA disclaims all liability associated with the provision of this bulletin. The information contained in this bulletin has not been verified through testing and so is not intended to serve as a work instruction, but rather is intended merely to provide information for Upfitters to take into consideration before retrofitting or modifying a Mercedes-Benz Sprinter Van. Prior to making any modification to or installing any equipment in or on a Mercedes-Benz or Freightliner Sprinter, you should review and ensure compliance with all applicable laws and regulations; consult with MBUSA’s Vans Engineering Support for Upfitter Management for additional and updated information; and read the Body & Equipment Guidelines for Sprinter Model Series 907. The PSM software is a customized and tailored software solution designed for a specific customer application matched to a specific Sprinter model configuration.

Exception: Factory Options M53, MT4 and T57 have factory PSM software installed

Vans PSM Support Contacts:

For information or upfitter inquiries

please submit a request via our website:

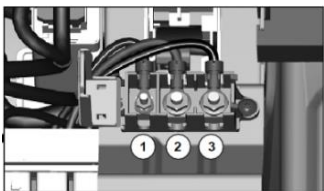
www.UpfitterPortal.com

Software Specifications – Conversion to MY25 PSM

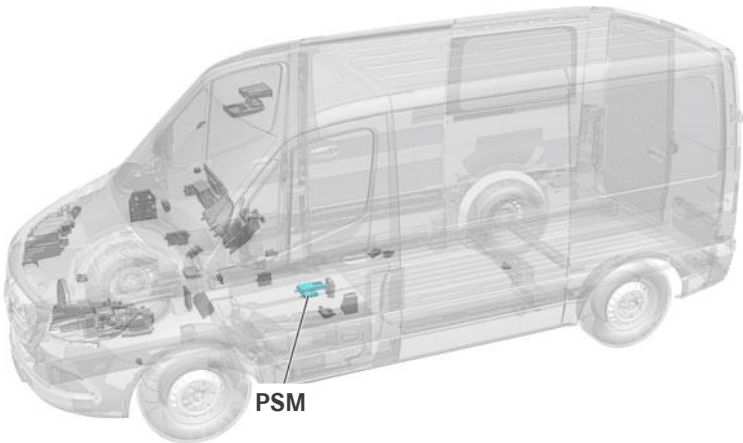
The following software package provides 3 input and 19 output functions for upfits related to people mover/ transporter vehicles. The program provides access to cargo door locking functions, activating hazard lights, and vehicle information such as door open status, gear status, light status, and vehicle speed.

Please note that not all inputs and outputs need to be used. Use only applicable inputs and outputs.

Additional info: EK1 – Auxiliary electrical connector under driver's seat



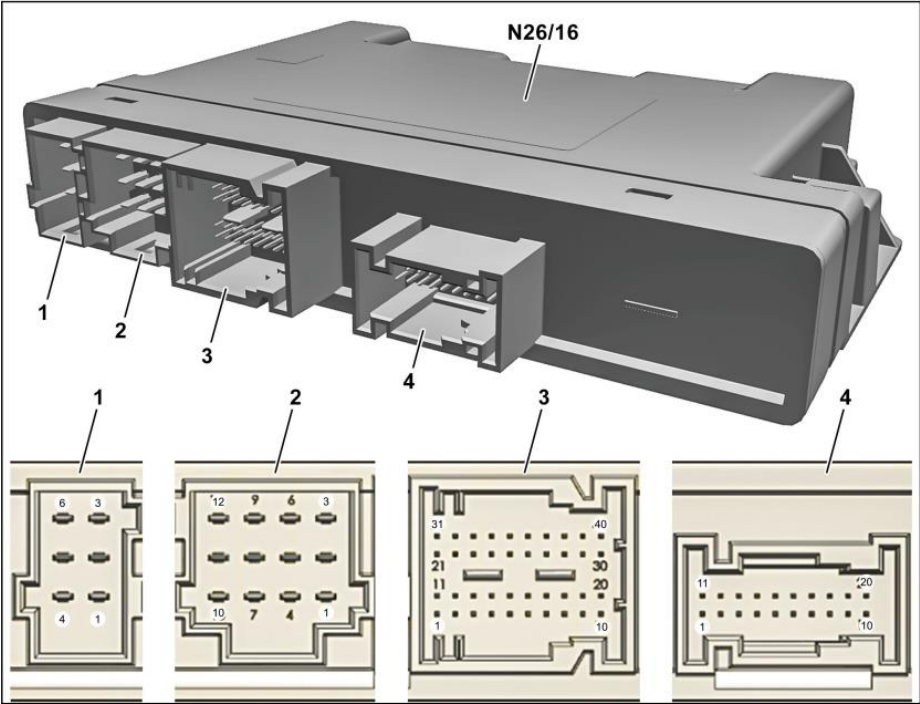
Terminal	U [V] / I [A]	wire color
1 st power with engine running	12V / 10A	blue/yellow
2 nd battery direct power	12V / 25A	red/gray
3 rd ignition power	12V / 15A	black/yellow



Parameterizable Special Module (PSM) Information – MY25 Module Change

Part	Part Number
Specification (Parameterizable Special Module)	A 447 900 40 23

Plug	Part Name	Description	Part Number
1	2.8 mm MCP pins	Power Supply + Ground	A0175456026 (housing)
2	2.8 mm MQP pins	Multi-function Outputs	A0175456126 (housing) A0135457626 (pins)
3	0.63 mm MQS pins	Multi-function Inputs/Outputs	A0095403081 (housing) A0135454426 (pins)
4	0.63 mm MQS pins	CAN/Body CAN	A0075400681 (housing) A0135454426 (pins)



Input Specification

#	Input Signal	Connector	Pin	Max Amps	Output Type	Comments
3	Lock Cargo Door	3	28	0.01A	Low	
6	Hazard warning lights	3	39	0.01A	Low	
9	Unlock Cargo Door	3	23	0.01A	Low	

Low Side values supply Ground when activated and remove Ground when inactive.

High Side values supply +12V when activated and remove +12V when inactive.

Vehicle Power States	
Terminal	Common Name
30	Battery Power
30r	Timed Battery Power
31	Chassis Ground
15c	Key In Ignition (Ign. Position 0)
15r	Key On (Ign. Position 1)
15x	Accessory Power (Ign. Position 2)
15	Ignition*
50	Engine Cranking
61	Engine Running
* Active during 15x, 50, and 61	

Output Specification

#	Output Signal	Connect or	Pin	Max Amps	Output Type	Comments
1	Right Turn Signal	2	6	5A	High	Constant Signal When Active
2	Ignition ON	2	12	10A	High	Terminal 15
3	Park Brake ON	2	7	5A	High	
4	Ignition Accessory	2	5	10A	High	Terminal 15R
5	Engine RPM > 1200	2	2	5A	High	Refer to BEG 6.5.3 for Engine Power take-off considerations (Signal not available through E5M extension and must be connected at the PSM module directly)
7	Gear in 'R'	2	1	5A	High	
8	Left Turn Signal	2	4	5A	High	Constant Signal When Active
9	Vehicle Locked	3	31	0.5A	High	2 seconds signal
10	Cargo Doors Unlocked	3	32	0.5A	High	2 seconds signal
11	Vehicle Speed > 0 mph	3	21	0.5A	High	
12	Vehicle Unlocked	3	22	0.5A	High	2 seconds signal
13	Brake Lamps	3	3	1A	Low	
14	Any Door Open	3	13	1A	Low	Driver/Passenger/Right Sliding/Rear Doors
15	Engine Running	3	26	0.5A	Low	Terminal 61
16	Driver Door Open	3	2	0.5A	Low	
18	Passenger Door Open	3	12	0.5A	Low	
19	Right Sliding Door Open	2	9	5A	High	
20	Right Door Open	2	8	5A	High	
21	Gear in 'P'	2	11	5A	High	
22	Ignition Start	2	10	5A	High	Terminal 50

Low Side values supply Ground when activated and remove Ground when inactive.

High Side values supply +12V when activated and remove +12V when inactive.

Vehicle Power States	
Terminal	Common Name
30	Battery Power
30r	Timed Battery Power
31	Chassis Ground
15c	Key In Ignition (Ign. Position 0)
15r	Key On (Ign. Position 1)
15x	Accessory Power (Ign. Position 2)
15	Ignition*
50	Engine Cranking
61	Engine Running
* Active during 15x, 50, and 61	