



# 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:

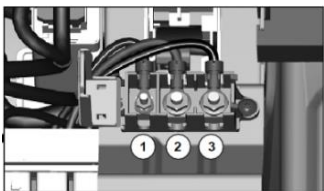
[www.UpfitterPortal.com](http://www.UpfitterPortal.com)

# Software Specifications – Conversion to MY25 PSM

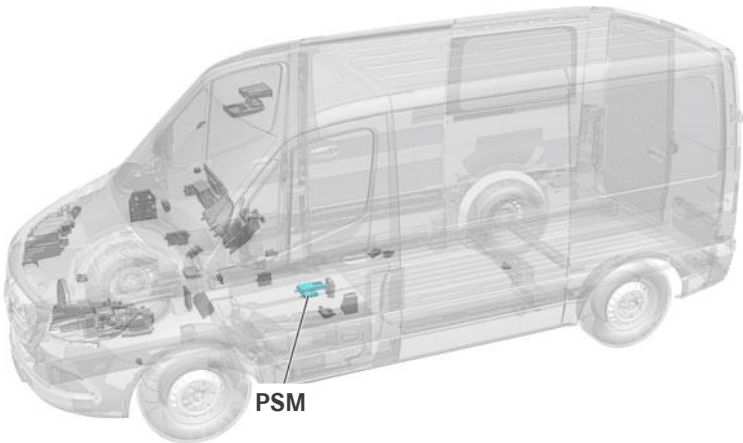
The following software package provides 3 input and 19 output functions for upfits related to people mover/ transporter vehicles. The program provides access to cargo door locking functions, activating hazard lights, and vehicle information such as door open status, gear status, light status, and vehicle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



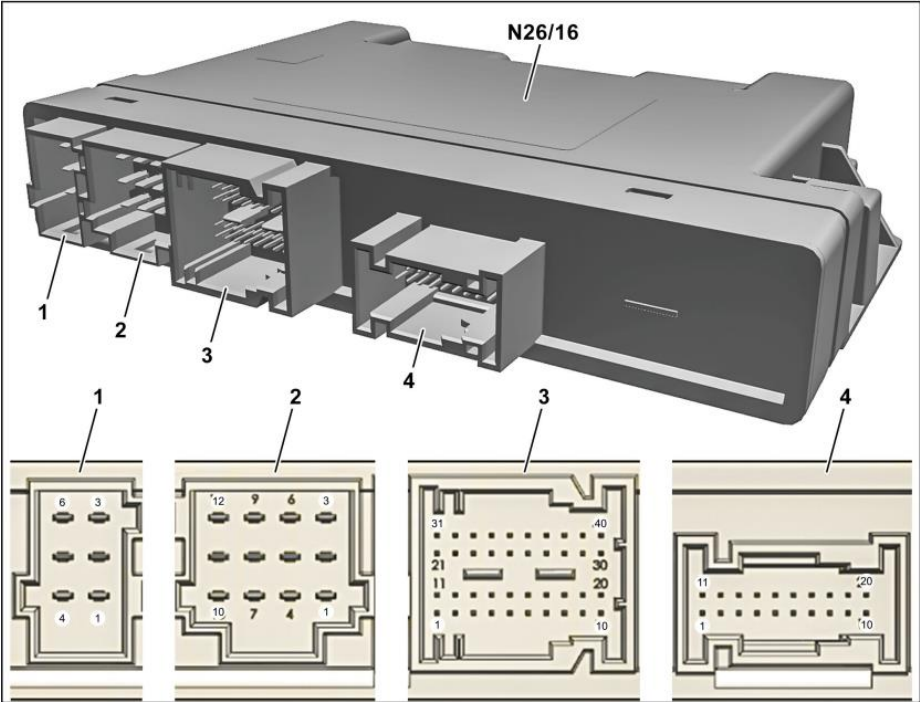
| Terminal                                  | U [V] / I [A] | wire color   |
|-------------------------------------------|---------------|--------------|
| 1 <sup>st</sup> power with engine running | 12V / 10A     | blue/yellow  |
| 2 <sup>nd</sup> battery direct power      | 12V / 25A     | red/gray     |
| 3 <sup>rd</sup> 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                   |
|------|------------------|-------------------------------|
| 1    | 2.8 mm MCP pins  | Power Supply + Ground         |
| 2    | 2.8 mm MQP pins  | Multi-function Outputs        |
| 3    | 0.63 mm MQS pins | Multi-function Inputs/Outputs |
| 4    | 0.63 mm MQS pins | CAN/Body CAN                  |



# Input Specification

| # | Input Signal          | Connector | Pin | Max Amps | Output Type | Comments |
|---|-----------------------|-----------|-----|----------|-------------|----------|
| 5 | Unlock Cargo Door     | 3         | 23  | 0.01A    | Low         |          |
| 6 | Lock Cargo Door       | 3         | 28  | 0.01A    | Low         |          |
| 7 | Hazard warning lights | 3         | 39  | 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  | Park Brake <b>ON</b>    | 2          | 7   | 5A       | High        |                                           |
| 2  | Ignition Accessory      | 2          | 5   | 10A      | High        | Terminal 15R                              |
| 3  | Right Door Open         | 2          | 8   | 5A       | High        |                                           |
| 4  | Ignition <b>ON</b>      | 2          | 12  | 10A      | High        | Terminal 15                               |
| 5  | Gear in 'R'             | 2          | 1   | 5A       | High        |                                           |
| 6  | Ignition Start          | 2          | 10  | 5A       | High        | Terminal 50                               |
| 7  | Gear in 'P'             | 2          | 11  | 5A       | High        |                                           |
| 8  | Vehicle Locked          | 3          | 31  | 0.5A     | High        | 2 seconds signal                          |
| 9  | Cargo Doors Unlocked    | 3          | 32  | 0.5A     | High        | 2 seconds signal                          |
| 10 | Vehicle Speed > 0 mph   | 3          | 21  | 0.5A     | High        |                                           |
| 11 | Engine Running          | 3          | 26  | 0.5A     | Low         | Terminal 61                               |
| 12 | Passenger Door Open     | 3          | 12  | 0.5A     | Low         |                                           |
| 13 | Brake Lamps             | 3          | 3   | 1A       | Low         |                                           |
| 14 | Driver Door Open        | 3          | 2   | 0.5A     | Low         |                                           |
| 16 | Vehicle Unlocked        | 3          | 22  | 0.5A     | High        | 2 seconds signal                          |
| 17 | Any Door Open           | 3          | 13  | 1A       | Low         | Driver/Passenger/Right Sliding/Rear Doors |
| 18 | Left Turn Signal        | 2          | 4   | 5A       | High        | Constant Signal When Active               |
| 19 | Right Turn Signal       | 2          | 6   | 5A       | High        | Constant Signal When Active               |
| 20 | Right Sliding Door Open | 2          | 9   | 5A       | High        |                                           |

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 |                                   |