

AiM User Guide

Kit EVO4S, SOLO 2/SOLO 2 DL
for Ducati Panigale V4
2018 - 2020

Release 1.05



PANIGALE

KIT



1

Models and years

This manual explains how to connect EVO4S/SOLO 2 DL to the bike engine control unit (ECU) and how to install AiM SOLO 2/SOLO 2 DL on the bike steering plate.

Compatible models are:

- Ducati - Panigale V4 2018 - 2020

Warning: for these models/years AiM recommends not to remove the stock dash. Doing so will disable some of the bike functions or safety controls. AiM Tech srl will not be held responsible for any consequences that may result from the replacement of the original instrumentation cluster.

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Kit contents and part numbers

AiM developed a specific installation bracket for SOLO 2/SOLO 2 DL and a connection cable to the ECU for EVO4S/SOLO 2 DL.

2.1

Bracket for SOLO 2/SOLO 2 DL

Part number for **SOLO 2/SOLO 2 DL** installation bracket for **Ducati Panigale V4** - shown below – is: **X46KSTSDP**.



Installation kit contains:

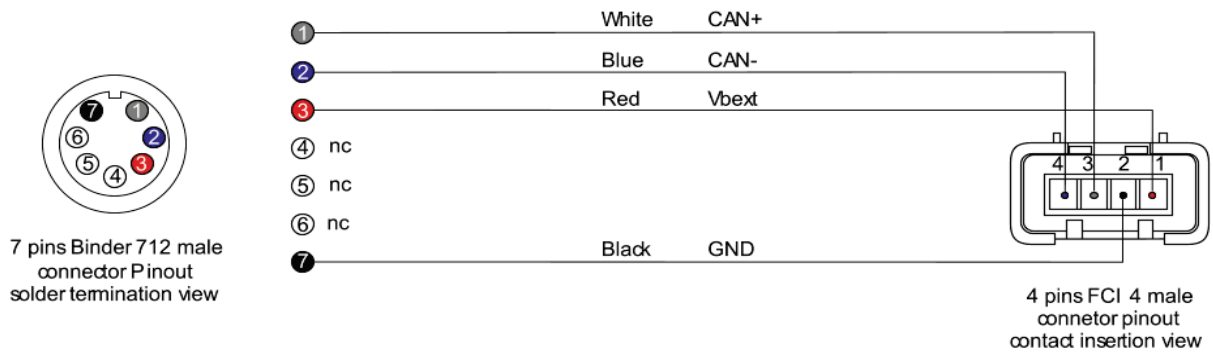
- 1 bracket (1)
- 2 allen screws with flat head M4x10mm (2)
- 1 washer (3)
- 1 rawl nut (4)
- 1 allen screw with rounded head M8x45mm (5)

2.2 AiM cable for SOLO 2 DL

Part number for **SOLO 2 DL** connection cable for **Ducati Panigale V4**– shown below – is: **V02569170**.



Following image shows the cable constructive scheme.



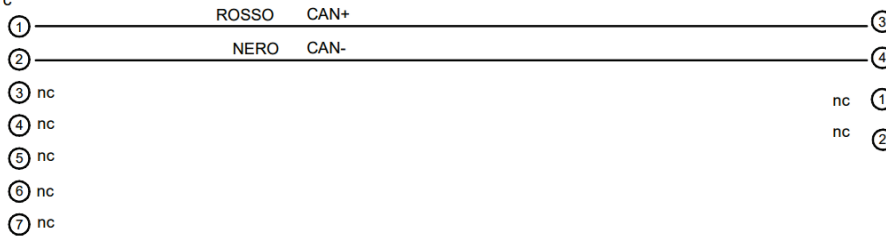
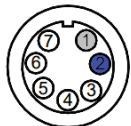
Connection cable for SOLO 2 DL and installation bracket for **Ducati Panigale V4** can be bought together. Part number: **V0256917CSP**.

2.2 AiM cable for EVO4S

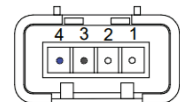
Part number for **EVO4S** connection cable for **Ducati Panigale V4** – shown below – is: **V02585180**.



Disposizione dei PIN sul
connettore Binder 712 7c
maschio
vista lato saldatura



Disposizione PIN sul
connettore CAN
lato iniezione contatti



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EVO4S/SOLO 2 DL connection

To connect EVO4S/SOLO 2 DL to the bike ECU use the DDA connector placed under the bike tail and shown here below:

Open the bike tail and remove the cap from the DDA connector (shown on the right), then plug the specific AiM cable.



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Configuration with Race Studio 3

Before connecting EVO45/SOLO 2 DL to the bike ECU, set all functions using the AiM software Race Studio 3. The parameters to set in the AiM device configuration section are ("ECU Stream" tab):

- ECU Manufacturer: **DUCATI**
- ECU Model: **PANIGALE V4** for Ducati Panigale V4 (2018 – 2020)

After this first selection, enable/disable the 120Ohm resistor and the "Silent" mode on CAN Bus as follows:

<input type="checkbox"/>	Enable the CAN Bus 120 Ohm Resistor
<input checked="" type="checkbox"/>	Silent on CAN Bus

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"Ducati – PANIGALE V4" protocol

Received channels by EVO4S/SOLO 2 DL configured with "Ducati – PANIGALE V4" protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
Gear	Engaged gear
Speed Rear	Rear wheel speed
Speed Front	Front wheel speed
Lon Acc	Longitudinal acceleration
Lat Acc	Lateral acceleration
Roll Rate	Roll rate
Pitch Rate	Pitch rate
Yaw Rate	Yaw rate
Engine Temp	Engine coolant temperature
Intake Temp	Intake air temperature
TPS Vert	Vertical throttle position sensor
TPS Hor	Horizontal throttle position sensor
Bike Angle	Bike lean angle
Brake Front	Front brake position
Twist grip	Hand throttle position
Battery Volt	Battery voltage
ShiftSw	Shift switch
Trq Slow	Torque slow
Trq Fast	Torque fast
EBC ON	Engine brake control ON
EBC Lv	Engine brake level
DWC OFF	Ducati wheelie control OFF
DWC Lv	Ducati wheelie control level



DTC OFF	Ducati traction control OFF
DTC Lv	Ducati traction control level
DSC OFF	Ducati slip control OFF
DSC Lv	Ducati slip control level
EngineStatus	Engine status
Eng St	Engine status
Brake Switch	Brake switch

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.