

USER MANUAL OF THE
CONTINENTAL
FCA WL/WS PASE SYSTEM
MY2021
MODEL: WXMVSKIN

General description

WL/WS PASE system has the features described below:

- Remote Control
- Keyless Ignition
- Ignition Working condition
- Tire Pressure Monitoring System

2021 S-KIN



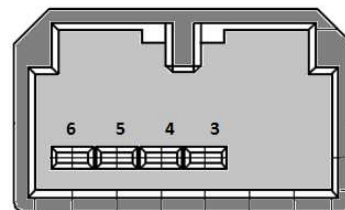
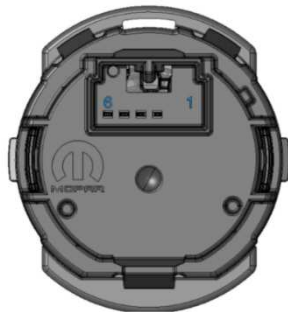
The model **WXMXSKIN** is part of the FCA WL and WD PASE System that provides the capability for the driver to operate certain features of the vehicle via small, personally – carried customer Identification device or key (KeyFOB). The PASE System consist of an RF receiver (RFHM), a KeyFOB and Short Keyless Ignition Node (S-KIN). The S-KIN module, which provides the immobilizer functionality when the KeyFOB is in failure battery condition, also provide the ignition start signal to the RF Hub module when the IGN switch is activated.

Functions

The S-KIN module provides the following functions:

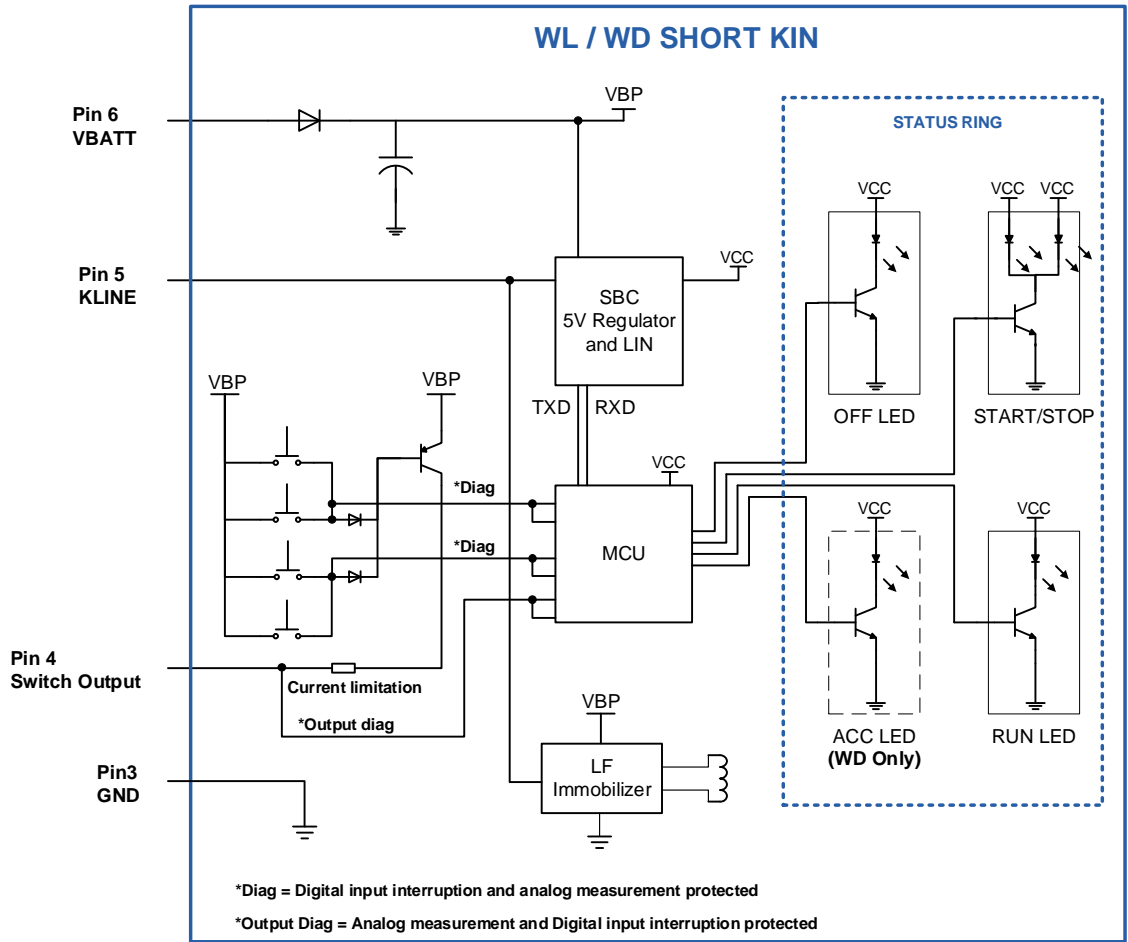
1. Provide the immobilizer functionality when the KeyFOB is in failure battery condition.
2. Provide the ignition start signal to the RF Hub module when the IGN switch is activated via the KIN line and hard wire.
3. 3. Display the ignition status to the customer via LEDs which illuminate the OFF, RUN, and ACC (optional) indicators in a status ring around the central Start/Stop button which is also illuminated, there is only one PCB variant and four mechanical variants.

Pin Description



PIN#	Color	Signal Description	Voltage (V)	Current (A)	Comments
1		Spare (Not populated)	-	-	
2		Spare (Not populated)	-	-	
3		GND Generic	-	200 mA	GND
4		IGN/RUN Switch Output	6V – 16V	10 mA	HSD Output
5		KIN_LINE	6V – 16V	20 mA	LIN communication
6		PWR – Generic Battery	6V – 16V	200 mA	Battery

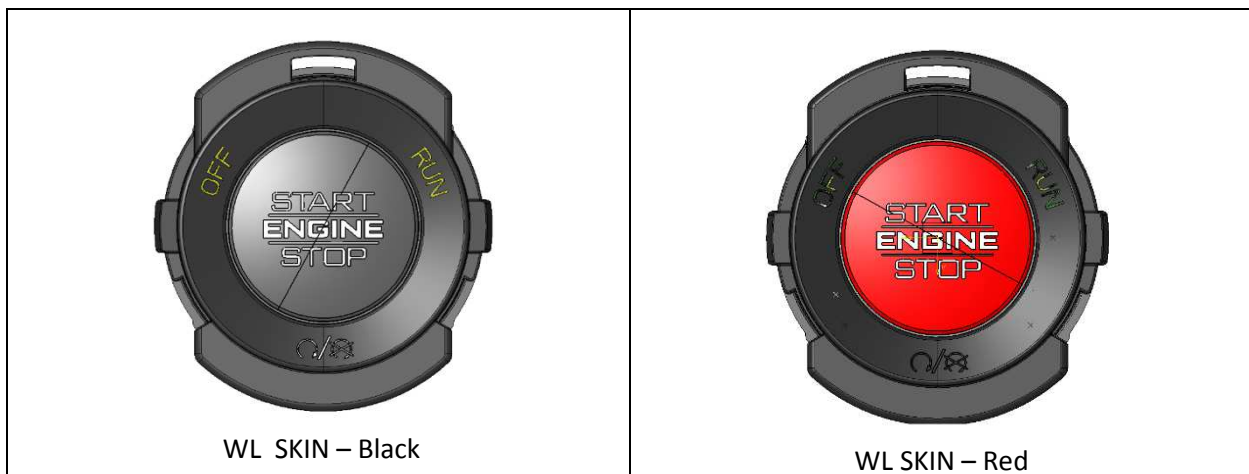
Block Diagram



Variants

ASSEMBLY VARIANTS				
ITEM	VARIANT	Program/ platform	ASSEMBLY NUMBER (FCA)	ASSEMBLY NUMBER (CONTINENTAL)
01	BLACK BUTTON	WL	68379775AA	A3C0200110200
02	RED BUTTON		68393992AA	A3C0200130200
03	BLACK BUTTON	WD	68479442AA	A3C0545080000
04	RED BUTTON		68479443AA	A3C0545090000

3D Models



WD SKIN BLACK



WD SKIN RED

Components on board

Microcontroller using internal clock	16 MHz
ABIC2 IC for LF transmission	125 kHz
Crystal oscillator for IBIC2	16 MHz
LF Coil Antenna	125 kHz

Technical data

Operation Voltage	9V to 16V, connected to vehicle battery
Input current during normal operation	Up to 25 mA with LF transmission Up to 150 mA with LF transmission
LIN Baud rate (KIN_LINE)	19.2 kbps
Standby current consumption	150 uA
Weight (g)	33 g
Dimensions (mm)	48mm x 48mm x36 mm
Operating temperature (°C)	-40°C to +85°C

RF Data

Frequency	125 kHz
Modulation	ASK
Antenna gain	0.5 dB
Antenna type	Coil
Bandwidth	8 kHz
Number of channels	1 channel

FCC OM INFO:

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna. -Increase the separation between the equipment and receiver. -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/ TV technician for help.

CAUTION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ISED OM INFO:

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