Declaration of identical construction SRF-2, SRF-4.,SRF-5



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1) Introduction

This declaration compares the three SRF variants (SRF-2, SRF-4, SRF-5) regarding the hardware versions.

2) Overview of the hardware versions

SRF-5

HVIN: BAG-RF-06 SCM: 5901240065_07 BOM: 5901240065_14 PCB: 5600700274_05C

<u>SRF-2</u>

HVIN: BAG-RF-04 SCM: 5901240089_01 BOM: 5901240089_01 PCB: 5600700274_05C

<u>SRF-4</u>

HVIN: BAG-RF-05 SCM: 5901240090_01 BOM: 5901240090_01 PCB: 5600700274_05C



3) Description

There are three different variants in the SRF product family:

SRF-5:

- Series switchable SRF
- Transmission of non-safety-related diagnostic data (DCD)
- Optional reset

SRF-4:

- Series switchable SRF
- No transmission of non-safety-relevant diagnostic data (DCD)
- Optional reset

SRF-2:

- No series connection → Single application
- No transmission of non-safety-relevant diagnostic data (DCD)
- No optional reset

All three variants have an identical circuit board 5600700274_05C.

The three SRF variants are realized via assembly variants on the printed circuit board 5600700274_05C.

The RFID radio part is identical in each of these assembly variants.

4) Overview of the assembly variants

Hardware version 5901240065 for SRF-5

All components are assembled on this version.

Hardware version 5901240090 for SRF-4

The following components are not assembled on this version:

- Components for diagnostic data DCD

Hardware version 5901240089 for SRF-2

The following components are not assembled on this version:

- Components for input 1
- Components for input 2
- Components for reset input
- Components for diagnostic data DCD

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5) RFID radio part

The RFID radio part is identical in all versions of the SRF product family.

The structure of the RFID radio part is documented on page 12 of the respective circuit diagrams.

The different hardware versions have no influence on the RFID radio part.

6) Note on diagnostic data DCD

Daisy Chain Diagnostic (DCD) was introduced with the SRF product family at Bernstein AG. With this method, non-safety-related diagnostic data from the SRF sensors are transmitted via the inputs and outputs and read out with an evaluation device.

This diagnostic data includes temperature and voltage, for example.

The DCD data is not transmitted via the RFID radio part.