4 Specifications

SDC	904	906	908	912	916	1308	1312	1316	1708	1712	1716
SAT inputs	8	8	8	8	8	12	12	12	16	16	16
Terrestrial input	1	1	1	1	1	1	1	1	1	1	1
Loop-through outputs	9					13			17		
Receiver outputs	4	6	8	12	16	8	12	16	8	12	16
22 kHz generator	•	•	•	•	•	–	–	–	–	–	–
Frequency range SAT TERR Return path	950 … 2200 MHz 5 … 862 MHz 5 … 65 MHz										
Loss return path	20 dB	23 dB		25 dB		23 dB	25 dB		23 dB	25 dB	
Through loss SAT TERR	2 dB 2 dB			4 dB 4 dB		2 dB 2 dB	4 dB 4 dB		2 dB 2 dB	4 dB 4 dB	
Tab loss SAT TERR	3 dB 20 dB	3 dB 23 dB		5 dB 25 dB		5 dB 23 dB	7 dB 25 dB		5 dB 23 dB	7 dB 25 dB	
Isolation Hor. / Vert. SAT / TERR Port / Port	> 30 dB > 25 dB > 20 dB										
Return loss SAT / TERR	10 dB										
Output level (receiver) SAT TERR	max. 101 dBµV passive										
Noise figure SAT TERR	7 dB passive										
LNB Power supply / LNB	SDP 900					SDP 1700					
Input selection	DiSEqC 2.0, Polarisation, Band, Position					DiSEqC 2.0, Polarisation, Band, Position, Option					
Connector, Impedance	F connector, 75 Ω										
Current consumption (receiver)	< 65 mA										
Power consumption without LNB	1.5 W					0.5 W					
Ambient temperature	–20°C … +50°C										
Dimensions (WxHxD) [mm]	160x135x60			160x215x60		240x135x60	240x215x60		240x135x60	240x215x60	

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Assembly Instruction

English

GSS
Grundig SAT Systems

Multiswitches

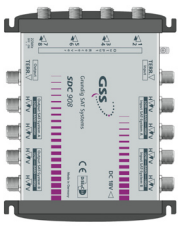
SDC 904 SDC 906 SDC 908
SDC 912 SDC 916
SDC 1308 SDC 1312 SDC 1316
SDC 1708 SDC 1712 SDC 1716

Cascadable multiswitches

SDC 904

Without picture:
SDC 906, SDC 908,
SDC 912, SDC 916

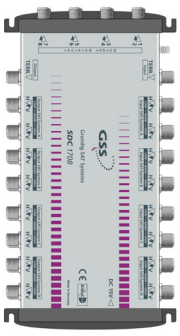
If required:
Power pack SDP 900



SDC 1716

Without picture:
SDC 1308, SDC 1312,
SDC 1316, SDC 1708,
SDC 1712

If required:
Power pack SDP 1700



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1 Important information on safety and assembly

Note

- Assembly and service must be carried out by an electrician.
- Check the system for short circuits in the coaxial cable before starting up.

- Mount the multiswitch:
  - on a non-flammable background (wall)
  - in a dust-free, dry environment
  - protected from moisture and water
  - somewhere protected from direct sunlight
  - away from the immediate vicinity of heat sources
- Make sure the input levels of the SAT stages are as equal as possible.
- Only install the system when it is not connected to the mains supply.
- Beware of short circuits.
- No liability is accepted for damage due to faulty connection or inexpert handling.
- Obey all applicable standards, guidelines and directives (VDE0100, VDE0185, VDE0855, VDE0860, DIN18015, EN61319-1, EN50083).
- Earth the SAT receiver system via the equipotential bonding connector.
- Obey the national and local approval laws for broadcast receiver systems.

2 Technical description

Application

Multiswitches are used for distributing SAT IF signals and terrrestrial signals in satellite receiver systems. Depending on the model, they can supply up to 8 receivers. By cascading multiswitches it is possible to increase the number of receivers which can be connected. The IF levels are selected according to the DiSEqC switching criteria, or to 0/22 kHz switching (SDC 908).

Power supply

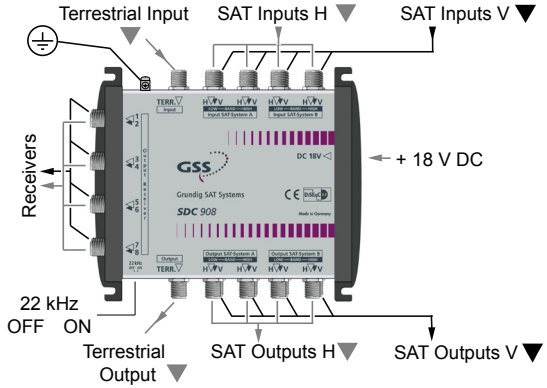
The power pack which can be connected to the multiswitch provides the operating voltage for the LNB. The power supply to the LNBs comes from the SAT-IF inputs of the multiswitches. Cascaded multiswitches only need one power pack, which is fitted to the multiswitch best positioned in relation to the mains power supply (230 V). The SAT-IF inputs and outputs are D.C. coupled. This carries the voltage to all the SAT-IF lines.

Cascading

You can connect multiswitches in series. The number of multiswitches which can be cascaded without raising the level depends on the LNB output level and the cable lengths. Always use FTD 75 DC decoupled terminaters for the outputs of the last one multiswitch in a cascade.

3 Connections and controls

Connection layout for e.g. SDC 908



SDC 908:

- Set the 22 kHz switch of the multiswitch to which the power pack is fitted to **ON**.
- Set the 22 kHz switch of multiswitches without power packs to **OFF**.

Example domestic installation
with SDC 1708 and SDP 1700