



WISI DRC0908 Flexswitch Multi-Switch User Manual

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**WISE FLEXSWITCH
DRC 09xx**

**Multiswitch 9 in x, cascade, TERR. passive
Operating manual**



- Cascadable multiswitch for the distribution of 8 satellite polarisations and terrestrial signals

- Passive terrestrial path
- Integrated SAT amplifier for low insertion loss
- Pre-emphasis to compensate for the cable loss at high frequencies
- Terrestrial signals are available at the receiver without any power supply of the multiswitch
- High screening efficiency of Class A
- Compact dimensions paired with the installation-friendly distance between the F-connectors
- Color-coded inputs and outputs
- Made in Germany

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Important Notes:

Please check the coaxial cables regarding the short circuit before starting!

The mounting ground should be:

- flame retardant
- dust-free
- protected against humidity
- not under direct impact of sunlight
- not adjacent to heating sources

Please check the input level of the SAT lines: They should be nearly equal. All installations and fixings of components should only be executed by skilled people when the units are disconnected from the power source. Short-circuits have to be avoided.

The European and national standards and regulations for the guarantee of electrical security have to be considered as well as the national permissions and legal regulations for broadcast receiving systems!

A ground connection must be installed at the device (Ground connector) as well as the satellite dish with at least 4 mm² cables.



Grounding and Potential Equalization

Pursuant to EN 50 083-1 the satellite antenna system must comply with safety requirements, i.e., grounding and potential equalization.

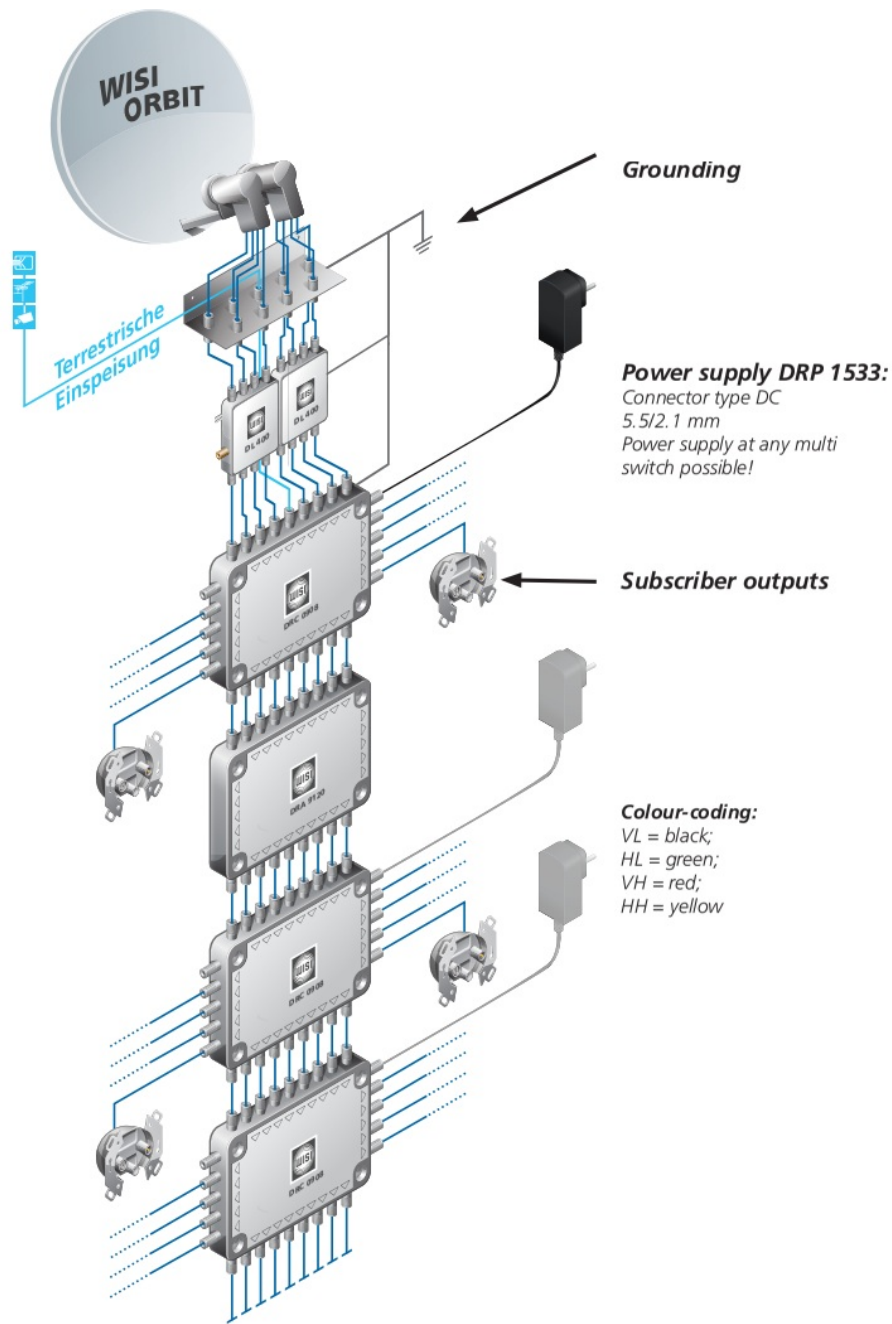
Application:

This multiswitch is used for the distribution of 8 SAT-IF-Polarizations (e.g. ASTRA and EUTELSAT) from two QUATTRO LNBs and terrestrial signals (passive path).

The selection of the IF-polarization is realized by the receiver control signal 14/18 V (Vertical/Horizontal), 0/22 kHz (Low-, High-Band). The Selection of the satellite position is done by DiSEqC 1.0. Cascade types can be powered by the external power supply unit DRP 1533 or through SAT-trunk lines from connected multi switches or

amplifiers (please consider total current consumption). DC-blocks have to be considered to avoid power conflicts. Not used cascade outputs have to be equipped with DC-blocked terminating 75 Ohm resistors.

Application example:



DC blocked terminating resistor (DV 25)

Specifications

SAT-IF trunk	DRC 0908	DRC 0912/0916	DRC 0924/0932
Inputs SAT	8 St./8 pcs.		
Outputs SAT	8 St./8 pcs.		
Frequency range SAT	950...2400 MHz		
Through loss SAT	-1 dB (± 1 dB)	1...3 dB (± 2 dB)	2...4 dB

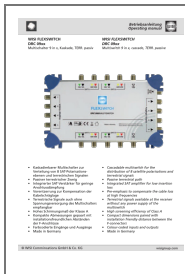
Decoupling SAT – SAT	30 dB typ.		
Return loss SAT	>10 dB		
Terrestrial trunk			
Inputs TERR	1 St./1 pcs.		
Outputs TERR	1 St./1 pcs.		
Frequency range TERR	5...862 MHz		
Through loss TERR	-2 dB (±2 dB)	4 dB (±2 dB)	4...6 dB (±2 dB)
Isolation TERR – SAT	30 dB typ.		
Return loss TERR	>10 dB		
Subscriber outputs			
Outputs	8 St./pcs.	12/16 St./pcs.	24/32 St./pcs.
Frequency range	5...2400 MHz		
TERR type	passive/passive		
Insertion loss SAT	0...-2 dB	2...0 dB	2...0 dB
Insertion TERR	-26 dB (±2 dB)	-30 dB (±3 dB)	-32 dB (±3dB)
Max. output level subscriber SAT	102 dBµV	102 dBµV	102 dBµV
Max. output level subscriber TERR	50...110 dBµV (passive/passive)		
Return loss subscriber SAT & TERR	>10 dB		
Control signal	14/18 V, 0/22 kHz, DiSEqC 1.0		
Current consumption from the receiver	45 mA		
General data			
Power indicator	LED		
Operating voltage	12...20 V DC		
Power consumption max.	<0,2 W		
Screening factor	Klasse A, Nach EN 50083-2/ Class A, according to EN 50083-2		
Impedance	75 Ω		
Operating temperature range	-20...70 °C		
Weight	0,52...1,1 kg		
Dimensions (width x height x depth)	129x202x63 mm	190x203x63 mm	308x205x63 mm



WISI Communications GmbH & Co. KG
Empfangs- und Verteiltechnik
Wilhelm-Sihn-Strasse 5-7
75223 Niefern-Öschelbronn Germany
Inland: Phone +49 7233-66-0 Fax -320
Export: Phone +49 7233-66-0 Fax -350
Email: info@wisi.de
wisigroup.com

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