

MSR A 05X SA

USER'S MANUAL



Chapter 1. Installation.

1.1. Safety Rules

- 1.- Never place the equipment next to hot sources.
- 2.- Never undergo the equipment to temperatures that exceed the level of operation of the device.
- 3.- Do not expose the equipment to dripping or splashing.
- 4.- Do not place objects filled with liquids on the equipment.
- 5.- Respect ventilation slots of this equipment. Avoid covering them with any object.
- 6.- Keep clean and without obstacles a minimum radius of 40 cm around this equipment.
- 7.- Avoid locations with possibilities of spilling liquids on the inside of the device, and with important changes of temperature.
- 8.- Use the equipment only in moderate climates (not in tropical climates).
- 9.- Never open the equipment yourself due to electric risk. In case of problems, go always to qualified technicians.
- 10.- Never, under no circumstances, open the equipment connected to the electrical net.
- 11.- During the handling it is better to disconnect the equipment of the electrical net.
- 12.- Respect the electricity security rules during the assembling. Use materials that obey the current law.
- 13.- The connecting plug must be accessible in a fast and simple way to have a fast disconnection.
- 14.- Never touch the plug with wet hands. Also, disconnect always the device before handling the connections.
- 15.- Never put any heavy object over the device, as it could get damaged.
- 16.- If the equipment is going to remain some time without use, it is recommendable to disconnect it from the electrical net.
- 17.- The repairmen and the maintenance of the equipment must be done by TV and radio specialist technicians.

1.2. Box Content



User's manual



Tooling for F connector

Depending on the model purchased, the box will contain one of the following multiswitches:



MSR A 0508 SA



MSR A 0512 SA



MSR A 0516 SA



MSR A 0524 SA



MSR A 0532 SA

1.3. Description and connections

Description

This family of multiswitches is used to make installations with a certain number of connected users and it is compatible with digital and analogical signals.

The models available allow us to distribute 4 polarities of a satellite for 8, 12, 16, 24 or 32 receivers making an independent commutation in order to receive in each receiver the 4 polarities of satellite. The inputs are independent for each polarity of the satellite.

All the models of this family are provided with an inner amplification in order to avoid the derivation loses and the distribution of the terrestrial bans is active.

Switching criterion	Polarity / Band
13 V / 0kHz	Vertical / low
18 V / 0kHz	Horizontal / low
13 V / 22kHz	Vertical / high
18 V / 22kHz	Horizontal / high

Connections

MSR A 0508 SA



- 1-8 REC1-REC8 47-2150 MHz: Outputs (SAT + TERR) *
- 9 H HIGH-BAND 950 – 2150 MHz 18V / 22 kHz : Satellite signal input
- 10 V HIGH-BAND 950 – 2150 MHz 13V / 22 kHz : Satellite signal input
- 11 TERR 47 – 862 MHz : Terrestrial signal input
- 12 H LOW-BAND 950 – 2150 MHz 18V / 0 kHz : Satellite signal input
- 13 V LOW-BAND 950 – 2150 MHz 13V / 0 kHz : Satellite signal input

(*) Note: In order to identify the outputs in the others models it is indicated with arrow in the direction of the connector and the number of the respective output.

1.4. Accessories and example of installation

Accessories



Parabolic antenna

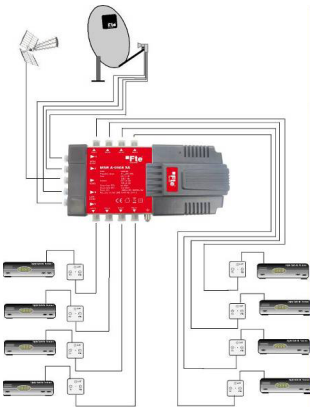


LNC Universal Quattro



Terrestrial antenna

Example of installation



Example of an installation for 8 users with 4 satellite polarities, distributed by a MSR A 0508 SA multiswitch. It allows the full reception (analogical and digital) of a satellite. The multiswitch does not introduce losses in the terrestrial output therefore it does not need previous amplification. In this case in order to access to the different satellite polarities, the receiver must be provided with DiSEqC 1.0 standard commutation or upper.

Chapter2. Technical features

Reference	MSR A 0508 SA	MSR A 0512 SA	MSR A 0516 SA	MSR A 0524 SA	MSR A 0532 SA
Code	0930180	0930182	0930184	0930186	0930188
N° of inputs	5	5	5	5	5
Subscriber outputs	8	12	16	24	32
Connectors	F female	F female	F female	F female	F female
Frequency range (MHz)	SAT: 950-2150 TER: 47-862	SAT: 950-2150 TER: 47-862	SAT: 950-2150 TER: 47-862	SAT: 950-2150 TER: 47-862	SAT: 950-2150 TER: 47-862
Satellite gain	5 ±1.5 dB	5 ±1.5 dB	5 ±1.5 dB	2 ±1.5 dB	2±1.5 dB
Terrestrial gain	7 ±1.5 dB	7 ±1.5 dB	7 ±1.5 dB	7 ±1.5 dB	7±1.5 dB
Isolation Ter - Sat	30 dB	30 dB	30 dB	30 dB	30 dB
Isolation Sat-Ter	28 dB	28 dB	28 dB	28 dB	28 dB
Isolation cross polarisation H/V	25 dB	25 dB	25 dB	25 dB	25 dB
Isolation Out-Out TER	28 dB	28 dB	28 dB	28 dB	28 dB
Isolation Out-Out SAT	35 dB	35 dB	35 dB	35 dB	35 dB
Return loss SAT input	11 dB	11 dB	11 dB	10 dB	10 dB
Return loss SAT output	9 dB	9 dB	9 dB	8 dB	8 dB
Return loss TER input	11 dB	11 dB	11 dB	10 dB	10 dB
Return loss TER output	9 dB	9 dB	9 dB	8 dB	8 dB
Output level SAT (IMD3 - 35 dB)	100 dBµV	100 dBµV	100 dBµV	100 dBµV	100 dBµV
Output level TER (IMD3 - 60 dB)	85 dBµV	85 dBµV	85 dBµV	85 dBµV	85 dBµV
Impedance input/output	75 Ω	75 Ω	75 Ω	75 Ω	75 Ω
Switching (VDC)	13V/18V / 13V-22 kHz / 18V-22 kHz				
22KHz generator	No				
Max LNB Current	13Vdc 400mA / 18Vdc 1000mA				
Mains	230Vac ±15% 50-60Hz 3W				
Temperature range	-10°C/50°C				
Dimensions	248x129x64 mm	288x129x64 mm	328x129x64 mm	408x129x64 mm	488x129x64 mm
Weight (g)	740	840	930	1120	1300

Chapter3. Conformity Declaration



CONFORMITY DECLARATION

"WE, FTE MAXIMAL, DECLARE THAT THE PRODUCTS
MSR A 0508 SA, MSR A 0512 SA, MSR A 0516 SA,
MSR A 0524 SA AND MSR A 0532 SA
ARE IN CONFORMITY WITH FOLLOWING DIRECTIVES
RED DIRECTIVE 2014/53/EU
RoHS2 2011/65/EU"

If you wish a copy of the conformity declaration, please contact to the company

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