

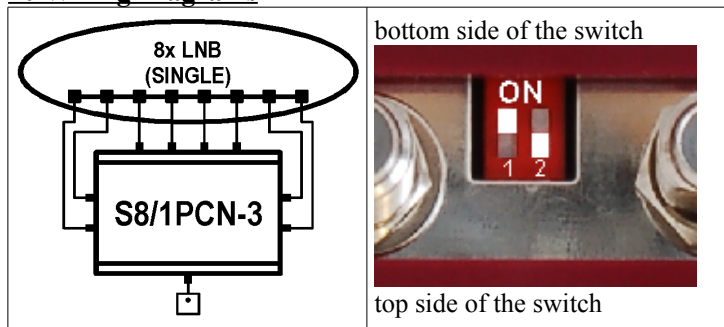
	international standard for digital satellite equipment control, number (1.0, 1.1, 1.2 or 2.0) determines DiSEqC version
	for indoor use only
	According to EU directive, electric and electronic devices which are identified by one of the following symbols must not be disposed of together with municipal waste. When disposing of the old device, use local waste collection and separation systems.

## 10 Wiring Diagrams



## 11 Contact

EMP-Centauri s.r.o.  
5. května 690  
339 01 Klatovy 4  
Czech Republic

tel: (+420) 376 314 852  
fax: (+420) 376 314 367  
info@emp-centauri.cz  
www.emp-centauri.eu

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## Instruction Manual 1/003227 A

### S8/1PCN-3

Dear Customer, congratulations on the purchase of the EMP-Centauri product. Before its installation and putting into operation, read carefully the entire operation manual. Keep the purchase and rework (if any) records for future need.

### 1 Field of Application, Warranty




The product is designed for the distribution of satellite (SAT), TV and radio signals. **We recommend the device to be installed and serviced by the qualified technician.** EMP-Centauri's PROFI CLASS products are covered under 6 (six) years warranty from the date of purchase. The warranty shall not apply to the product used for other than the specified purpose. The user will be responsible for injury or material damage which may arise in consequence of any product use in contradiction with the manual. Repairs or any interventions in the product may be performed only by EMP-Centauri company, or other companies authorized by EMP-Centauri.

### 2 Technical Specifications

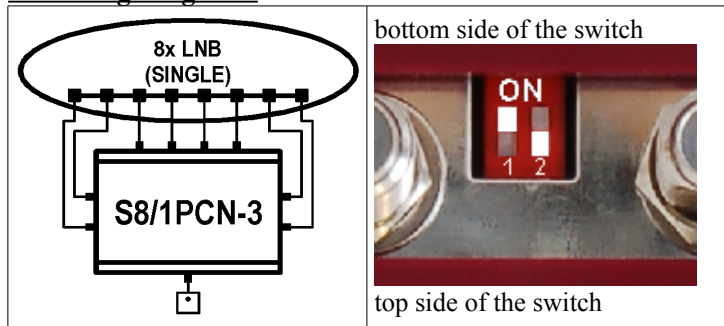
The product is a switch for distribution of satellite signals from 8 satellite positions to 1 user. It is controlled from a receiver by DiSEqC 1.0, 1.1 or 1.2 commands (multimode switch). It transmits DC voltage, 22 kHz and DiSEqC commands. The Inputs are short-circuit protected.

Specifications	S8/1PCN-3
Number of Inputs / Outputs	8/1
Frequency Range	SAT 950–2300 MHz
Insertion Loss (avg)	SAT 5 dB
Isolation (min)	SAT 25 dB (between inputs)
Control	DiSEqC 1.0,1.1,1.2
Current Consumption	65 mA (18 V DC) from satellite receiver
LNB Current (max)	400 mA (18V DC)
Dimensions (w,d,h)	13.5 x 10.4 x 4.1 cm
Temperature Range	–30 °C – +70 °C

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avg – average value, there is  $\pm 3$  dB tolerance in specified range  
 min – minimum value, max – maximum value

### 3 Product Takeover

Make sure that the product is not damaged. Please contact your dealer in the case of damage.

### 4 Product Storing and Installation

The product must not be stored and installed in the place with excessive humidity, in the place with dropping or running water, in the place with excessive dust pollution, mechanical vibrations or impacts, in the place out of temperature limits specified in the section 2 Technical Specifications, close to heat sources (radiators or air ventilators, direct sunshine etc.), in the reach of children. Fix the product firmly on a wall or another hard and inflammable surface with screws and dowels. The product shall be in no case held only by the connected cables. Ensure the free space for the air circulation (space on sides and bellow the product should be at least 20 cm and the space over its top at least 50 cm). Do not cover the product (with curtains etc.). Do not place any containers with liquids (vases, glasses etc.) or naked flame sources (lighted candle etc.) on the product or near the product.

### 5 Product Connection

Connect the product in accordance with this manual and valid regulation. Use high-quality 75  $\Omega$  coaxial cable designed for satellite reception. Mount the F connectors (screw, crimp or compress type) on the ends of coaxial cables. Connect the F connectors into the F sockets of product and fasten them with an appropriate force. The coaxial cables shall not be broken, the minimum bending radius should be 5 cm. Connect input F sockets marked SAT 1–8 IN with single convertors (LNBS) outputs. Connect output F socket marked SAT OUT with other components in distribution system (satellite receiver, wall socket etc.). The wiring examples are shown in the section 10 Wiring Diagrams or at [www.emp-centauri.eu](http://www.emp-centauri.eu).

### 6 Product Settings

Satellite receiver must be set to the required mode using a DIP switch located at the side of switch according to following table:

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switch mode	DIP lever		satellite receiver settings
	1	2	
DiSEqC 1.0	OFF	OFF	DiSEqC 1.0 – committed commands 1–4 (A–D), directly corresponding with inputs SAT 1–4 IN
DiSEqC 1.1	ON	OFF	DiSEqC 1.1 – uncommitted commands 1–8 (A–D), directly corresponding with inputs SAT 1–8 IN
DiSEqC 1.0 + DiSEqC 1.1	OFF	ON	DiSEqC 1.0 – committed commands 1–4 (A–D) + DiSEqC 1.1 – uncommitted commands 1,2 (A,B), combinations correspond with inputs SAT 1–8 IN
DiSEqC 1.2	ON	ON	8 positions of motor

See section 10 Wiring Diagrams for a levers description (the picture shows the DiSEqC 1.1 mode setting). The product is set in factory to the mode DiSEqC 1.2. Change of switch mode is effective only after disconnecting and connecting a satellite receiver. The setting procedure of each receiver can differ, follow instruction manual of your receiver.


### 7 Safety

**Due to security reasons the product and wiring in which the product is connected, must be grounded properly. Make sure the antennas are grounded properly. Connect all devices to power grid only after all connections are finished and checked. Never work on the wiring (including terrestrial and satellite receivers, TVs) during or before a storm. A lightning stroke into the antenna may cause dangerous overvoltage in the product metallic parts.**

### 8 Product Maintenance

**Always disconnect the product from the the wiring before performing any maintenance of the product. If you have to enter places with a risk of fall, pay attention to your safety.** Use only dry cloth to clean the product and do not use any liquid agents. Coaxial cables installed outdoors should be replaced once in a few years. Unscrew all F connectors and clean connector contacts, resp. shorten the coaxial cable by approx. 2 cm, every 2 years.

### 9 Symbols Explanation

	certificate of conformity
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avg – average value, there is  $\pm 3$  dB tolerance in specified range  
 min – minimum value, max – maximum value

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DiSEqC 1.1	ON	OFF	DiSEqC 1.1 – uncommitted commands 1–8 (A–D), directly corresponding with inputs SAT 1–8 IN
DiSEqC 1.0 + DiSEqC 1.1	OFF	ON	DiSEqC 1.0 – committed commands 1–4 (A–D) + DiSEqC 1.1 – uncommitted commands 1,2 (A,B), combinations correspond with inputs SAT 1–8 IN
DiSEqC 1.2	ON	ON	8 positions of motor

See section 10 Wiring Diagrams for a levers description (the picture shows the DiSEqC 1.1 mode setting). The product is set in factory to the mode DiSEqC 1.2. Change of switch mode is effective only after disconnecting and connecting a satellite receiver. The setting procedure of each receiver can differ, follow instruction manual of your receiver.

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