

HF Antenna Power Splitter ID ISC.ANT.PS-B



FEATURES

- Facilitates connection of two antennas to one reader
- Supports dynamic tuning of the antennas
- Designed for installation inside and outside (IP 65)





SHORT DESCRIPTION

Order description:

ID ISC.ANT.PS-B HF Power Splitter

The ID ISC.ANT.PS-B is a 3 dB power splitter with galvanic isolation between input and two outputs. At the operating frequency of 13.56 MHz the impedance on all inputs and outputs is calibrated to 50Ω.

Output X2 also provides a 90° phase shifter. This can be enabled by using two jumpers. The current on output X3 can be rotated by 180° with respect to output X2.

If the device is connected to a suitable voltage source using terminal X4, the coaxial outputs can be used to power two antennas (using the Dynamic Tuning Board ID ISC.DAT-A) with DC voltage.

Both outputs are internally wired in parallel. The galvanic isolation can be enabled by using two jumpers.

The device is designed for installation indoors and outdoors. The connection cable from the reader to the Power Splitter is 3.6 m in length.

TECHNICAL DATA

Dimensions (W x H x D)	130 mm x 94 mm x 57 mm
Housing	Plastic Polycarbonate (white)
Weight	approx. 275 g
Protection class	IP 65
Cable fittings	4 x cable fitting M16 x 1,5
Supply voltage	12-24 V DC (optional)
Power consumption	maximum 4 W
Operating frequency	13.56 MHz
Max. transmitting power*	
Only phase shifter**	5 W
Else	10 W
HF connections	
1 x input	SMA jack (50Ω)
2 x output	SMA jack (50Ω)
Carrier frequency	13.56 MHz
SWR	maximum 1.2:1 (50Ω)
Input loss	maximum 0.6 dB
Temperature range	
Operation	-25°C up to 55°C
Storage	-40°C up to 85°C

* at input

** with resp. without transformer

STANDARD CONFORMITY

EMC	EN 61000-6-3 EN 61000-6-2
Vibration	EN 60068-2-6 10 Hz up to 150 Hz: 0.075 mm / 1 g
Shock	EN 60068-2-27 acceleration: 30 g
Flame proof	UL 1950 (Flame Proof HB, without cable)