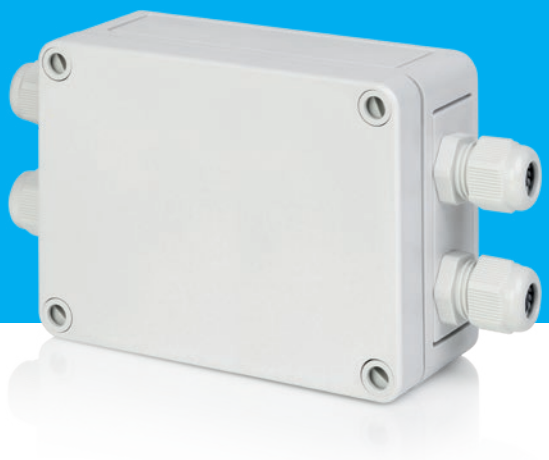
FEIG

ID ANT.PS-B

HF ANTENNA POWER SPLITTER

- Facilitates connection of two antennas to one reader
- Supports dynamic tuning of the antennas
- Designed for installation inside and outside (IP65)
- Also available as module variant



The ID 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 50 Ω.

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 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.

HF ANTENNA POWER SPLITTER

Allows connection of two antennas to one reader

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	IP65
Cable fittings	4x cable fitting M16 x 1.5
Supply voltage	12 – 24 DC (optional)
Power consumption	max. 4 W
Operating frequency	13.56 mHz
Max. transmitting power*	
Only phase shifter**	5 W
Else	10 W
HF connections	
1x input	SMA jack (50 Ω)
2x output	SMA jack (50 Ω)
Operating frequency	13.56 mHz
SWR	max. 1.2 : 1 (50 Ω)
Input loss	max. 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

ID ANT.PS-B

ID ANT.PSM

Standard conformity

EMC	EN 61000-6-3, EN 61000-6-2
Vibration	EN 60068-2-6 10 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)

Order descriptions

ID ANT.PS-B	HF Power Splitter
ID ANT.PSM	HF Power Splitter Module

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FEIG ELECTRONIC GmbH
35781 Weilburg, Germany, info@feig.de, www.feig.de