

XBB PowerUnit®



DATASHEET

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Important:

This section contains information that is important for you to know when reading the data sheet and before working with the XBB PowerUnit®.

It includes the safety information that applies when you are working on and with the XBB PowerUnit® and its surrounding parts.

Safety information:

Follow the instructions to avoid injury or damage the equipment:

	<p>WARNING!</p> <p><i>There are ESD sensitive components inside the XBB PowerUnit®.</i></p>
	<p>WARNING!</p> <p><i>Contains electronics. Must be recycled. Do not dispose in household garbage.</i></p>
	<p>WARNING!</p> <p><i>Newer work on XBB PowerUnit® with the power supply on.</i></p>

Function:

XBB PowerUnit[®] serves as the relay for auxiliary equipment such as LED-bars, working lights and other types of electrical consumers that can be mounted on vehicles.

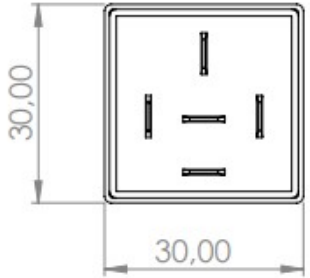
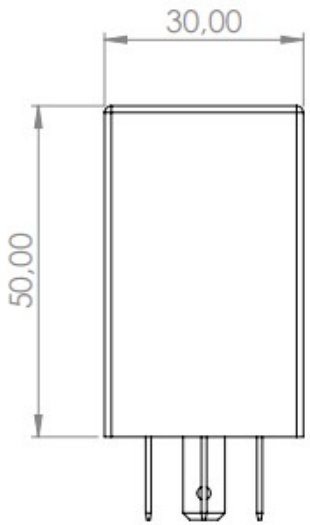
The XBB PowerUnit[®] is equipped with 2 fully programmable outputs. Each output is short circuit and overload protected. XBB PowerUnit is fully programmable with the TSharkRex[®] programming language.

XBB PowerUnit[®] is Bluetooth[®] qualified.

Technical data:

Rated voltage:	12 / 24	V
Operating voltage:	9 – 36	V
Quiescent current Standby mode:	4 – 5.3	mA
Output #1:	15	A
Output #2:	5	A
Protection class:	IP 53	(flat plug to bottom)
Implementation:	Plastic	>PA66<
EMC/Standards:	EN 50498:2010 EN 50581:2012 RED 2014/53/EU EN 300328 – V2.1.1 EN 301489-01 – V2.1.1 EN301489-17 – V3.1.1 EN 60950 – 1:2006 /11:2009 /A1:2010 /A12:2011 /A2:2013 EN 62479:2011-09 RoHS 2011/65/EU Bluetooth qualified	
Permissible temperature range:	-40 to +85	°C
Weight:	27	g
Connection:	5 x 6,3 mm	ISO 7588 Socket
Mounting:	On socket	
Feature:	Bluetooth® communication & current monitoring.	

Dimensions:



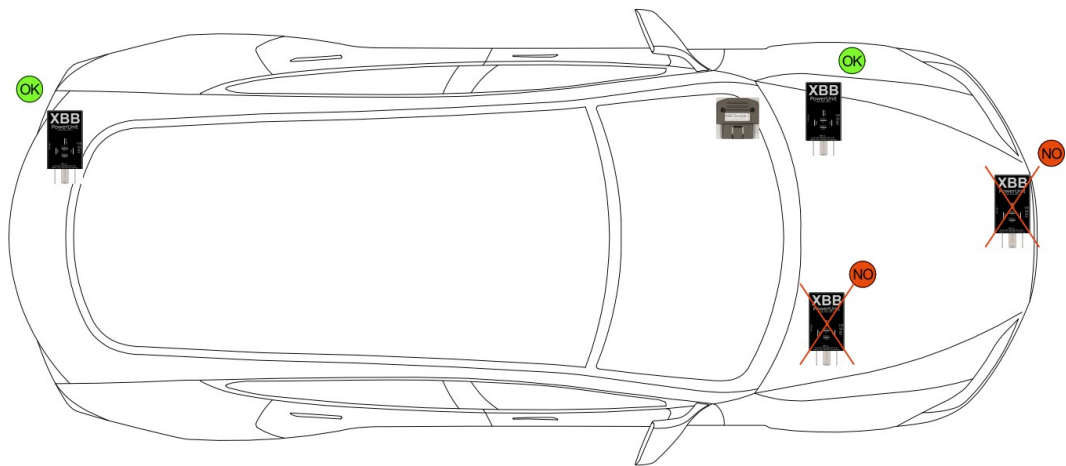
Mounting direction:

A very important step is the placement and mounting direction of the XBB PowerUnit[®]. When installing XBB PowerUnit[®] in the engine compartment it is very important to mount the XBB PowerUnit[®] with the socket pointing downwards. XBB PowerUnit[®] has IP 53 protection **only when mounted with the socket downwards!**

Note!

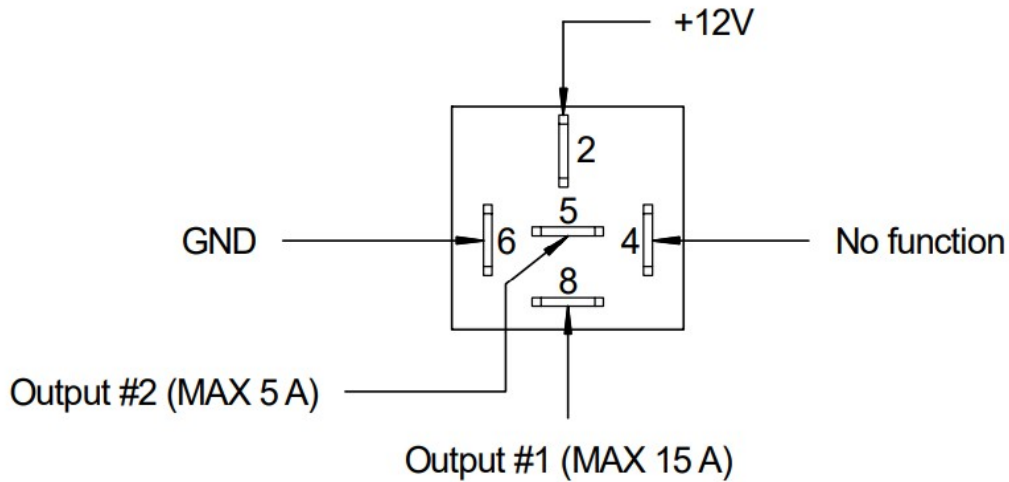
Avoid using water to wash the surrounding parts and XBB PowerUnit[®]. If you must use water or pressure washer, please remove XBB PowerUnit[®] from the relay socket before using water.

Placement from the XBB Dongle[®] should be as short as possible. Even though both XBB PowerUnit[®] and XBB Dongle[®] have a relatively high output power, the signal can be disturbed due to encapsulation depending on vehicle construction and/or damping materials.



Keep the distance between the XBB Dongle[®] and XBB PowerUnit[®] as short as possible. In some rare conditions the vehicle and engine compartment will work as two different faraday's cage which may cause malfunction to the Bluetooth[®] connection.

Circuit diagram:



Note!

The picture represents the underside of the relay, not relay socket.

Traceability

Reference document

Denomination	Publication number
Reference instruction	Nr:EN-20200918-1

Revision

The following significant changes have taken place since the previous version:

Rev	Page	Description of revision	Approved by tech. manager	Date	App. by doc. officer.	Date
1	ALL	Creation of doc.	KHS	20-09-18	KHS	20-09-18
2	8	Added mounting direction.	KHS	20-10-13	KHS	20-10-13
3						
4						
5						