



Board Marker

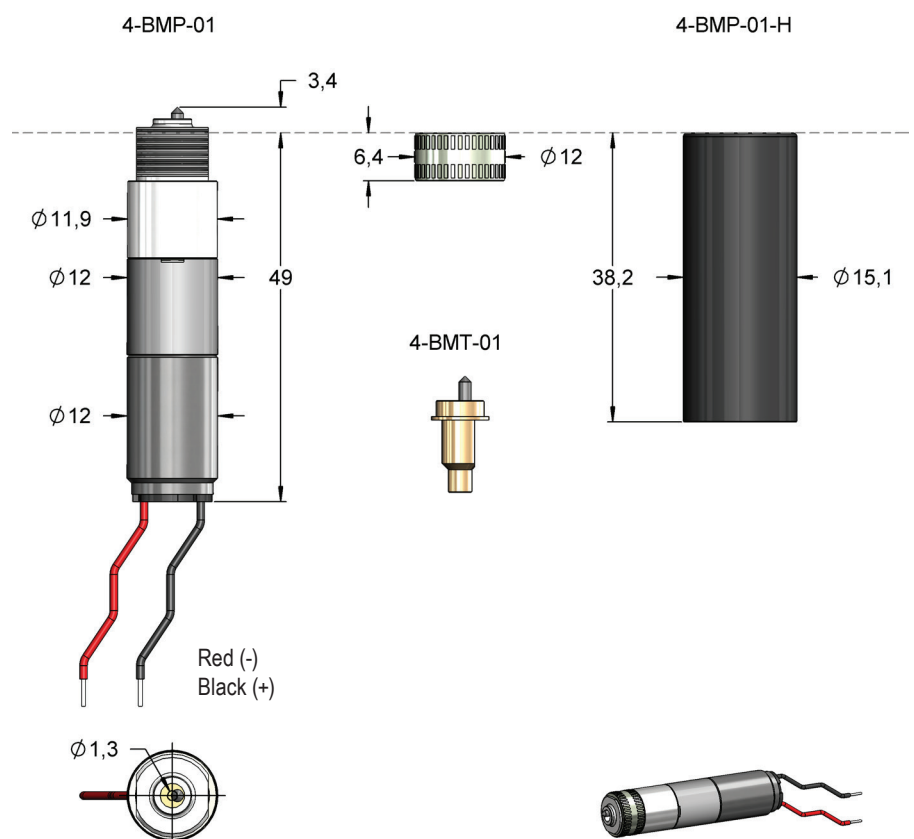
The board marker is used after an electrical test of electronic assemblies for optical marking of good parts.

In this case, the tip of the marking unit is placed on the assembly. After the test is triggered by an electric current pulse, a rotary motion, which scores the permanent marking - a circle of 1.3 mm - into each „good“ printed circuit board.

The BMP-1 requires an area of 12x12 mm in the fixture and can mark the following materials: FR4, solder resist on copper or FR4, tin-plated or gold-plated copper surfaces.

The 4-BMP-1 consists of a mounting sleeve with knurls, which is inserted into the test fixture, and a geared motor unit, which is screwed into the mounting sleeve.

For the marking unit a spare tip as well as a plastic sleeve for mounting in electrical-conductive materials are available.



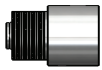
Order Code

Description

4-BMP-01	Board Marker inclusive receptacle with knurl
4-BMT-01	Replacement pin for Board Marker
4-BMP-01-H	Insulating receptacle PVC black for Board Marker
4112255-059	Assembly block for Board Marker



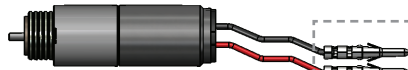
Locking cap



Spring

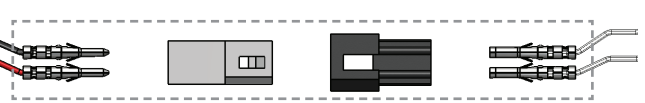


Replacement pin



Gear unit

Electrical connection unit



Assembly Instructions

The 4-BMP-1 consists of a **receptacle with knurl**, which is pressed flush into the test fixture; and the gear unit which is screwed into the mounting receptacle.

Recommended drill diameter

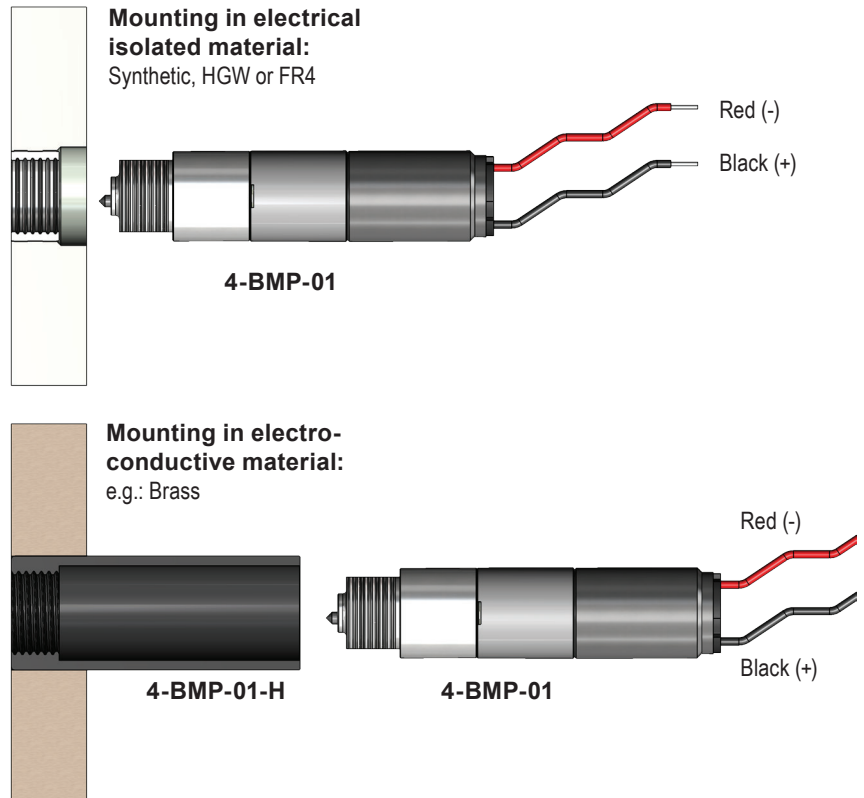
Receptacle with knurl: 11,9 mm

Also available is a **synthetic receptacle** for mounting in electrically conductive material. It is important to use the receptacle with thread to the test side.

Recommended drill diameter

Insulating receptacle PVC black: 15,0 mm

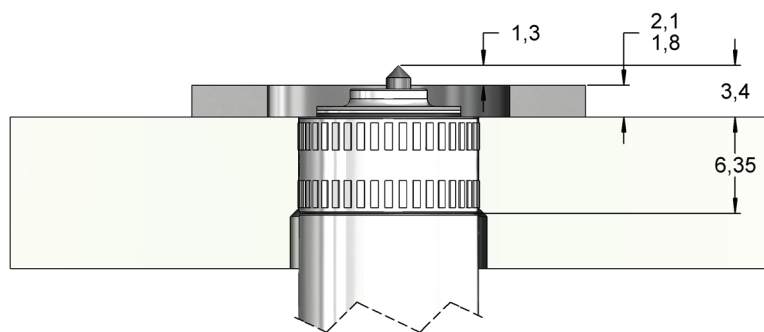
Due to various influencing factors, we always recommend to do your own drilling tests.



Written warning:

The marking unit may be damaged if the contact tip is compressed too far. The gear stops, which can cause permanent damage to the marking unit. To allow the maximum travel, spacers or distance rings can be used.

If possible, the board marker should be installed in the top contact, so that shavings and dirt particles can not get inside the unit.



Mechanical Specification

Nominal voltage	15 V DC
Nominal current	50 mA
Working cycle	min. 1 sec on and 5 sec off
Working travel:	1,3 mm
Maximum travel (pinion)	1,6 mm
Marking surface	Ø 1,3 mm
Direction of rotation	counter-clockwise
Pinion material	carbide
Receptacle material	stainless steel